

**SOFTWARE REQUIREMENT SPECIFICATION (SRS)**  
**Version 3.0**

**META EVENT APPLICATION**



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**REVISION HISTORY & DOCUMENT APPROVAL****REVISION HISTORY**

DATE	VERSION	AUTHOR	REVISION DETAILS
9/1/2025	Version 1.0	WONG CHUN LIANG	First version created
16/1/2025	Version 2.0	WONG CHUN LIANG	Second version created
19/1/2025	Version 3.0	WONG CHUN LIANG	Third version created

**DOCUMENT APPROVAL**

The following Software Requirements and Specification has been accepted and approved by the following:

SIGNATURE	NAME	DATE
<i>WONG</i>	WONG CHUN LIANG	19.1.2025
	DR. HARNANI BINTI MAT ZIN	

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## 1.0 Introduction


This section provides a purpose of this document and includes a compilation of abbreviations and definitions to enhance clarity and comprehension. It also offers an overview and scope description of the contents outlined in this Software Requirements Specification (SRS) document.

### 1.1 Purpose

The Software Requirement Specification document for the META Event Application, is crafted with the intention of providing detailed references for developers, project managers, and stakeholders involved in the development process. It serves as a communication bridge, ensuring a shared understanding of the application's features, functionalities and constraints, catering to both technical and non-technical audiences involved in the project.

### 1.2 Scope

META Event : Organiser of META Faculty is a application designed to empower the META Faculty in organizing events effortlessly, featuring capabilities such as paperwork submission, event committee management , venue booking, CHAMP points management, event registration.

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### 1.3 Definitions, Acronyms, and Abbreviations

**Table 1.1:** Definitions, Acronyms, and Abbreviations of META Event : Organiser of META Faculty

Term	Definition
META Event	Name of the application. The word ‘META’ comes from META Faculty and ‘Event’ refers to the event that is being organized.
Organiser	This word brings the definition of the role as an helpful organiser to manage an event.
META Faculty	The application is designed to assist META Faculty.

### 1.4 References

1. Ali, H., Tan, C. K., Ibrahim, M. S., Lee, W. Y., & Siti, N. R. (2023). *Requirement Gathering Data for Meta Event Application: Comprehensive User Insights*. Unpublished Raw Data.
2. Ali, H., Tan, C. K., Ibrahim, M. S., Lee, W. Y., & Siti, N. R. (2024). *Requirement Modeling Data & Framework for Meta Event Application: Enhanced User Experience*. Unpublished Raw Data.

### 1.5 Overview

The remaining sections of this document provide a comprehensive description of the product-to-be-built. Section 2 discusses the product's perspectives and functionalities, user characteristics, general constraints, assumptions, and dependencies.

Section 3 delves into specific requirements related to external interfaces, including user, hardware, software, and communication interfaces. This section also provides detailed information about the product-to-be-built, covering functional requirements, use cases, activity diagrams, class diagrams, and quality requirements.

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## 2.0 General description

This chapter aims to provide a comprehensive overview of the META Event Application, detailing its operational environment, user characteristics, constraints, assumptions, and dependencies.

### 2.1 Product Perspective



The META Event Application is a centralized event management platform specifically designed for UPSI students and administrators. The application aims to streamline the processes of organizing, managing, and participating in events. It acts as a bridge between students (users) and administrative staff (admins), ensuring efficient communication and seamless handling of event-related activities. The application addresses the challenges students face in coordinating event logistics while reducing the administrative burden on lecturers or admins in approving and monitoring events. By integrating multiple functionalities into a single interface, the application ensures simplicity, accessibility, and effective workflow management. As a web-based application, the application guarantees compatibility across various devices, including desktops and mobile platforms. It leverages UPSI's existing infrastructure, such as authentication databases and event calendars, to provide a cohesive user experience.

### 2.2 Product Functions

The META Event Application is a comprehensive platform designed to streamline and enhance event management, providing a seamless experience for both META students and admin. The application encompasses a range of features tailored to simplify event planning, document handling, and participation processes.

One of the fundamental features is the Login Function, which ensures secure access to the platform and role-based permissions for META students and admin. This feature comprises Sign Up, enabling new META students to register their accounts by providing essential details; Log In function, allowing users to securely access their accounts using valid credentials; and LogOut function, which ensures a safe and reliable mechanism to end active sessions. These components are crucial for maintaining data security and providing a smooth user experience.

The Paperwork Submission module facilitates the handling of event-related documents, ensuring an organized workflow. META Students can utilize the Submit Paperwork feature to upload the necessary documents for event approval. They can also review their own submissions through the Review Paperwork function to ensure accuracy and completeness before final approval. Admin plays a pivotal role in this process by reviewing and approving all submitted documents through the

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Verify Paperwork feature, ensuring compliance with requirements and standards. This collaborative approach enhances transparency and accountability in the documentation process.

For effective team coordination, the application includes an Event Committee Management feature. Admin can use the Add Event Committee function to onboard new committee members, ensuring all roles are adequately filled. If adjustments are needed, members can be removed using the Delete Event Committee feature. The View Event Committee function provides a comprehensive overview of all committee members and their roles, fostering clarity and efficient collaboration.

The Venue Booking module simplifies the reservation process for event venues. META students and admin can request bookings through the Register Venue Booking feature, specifying their preferred locations and times. Admin are responsible for evaluating and approving these requests via the Verify Venue Booking Application function. META students can also review the status and size of their requests using the View Venue Booking feature.

The application also includes a Champ Point Management system to manage the tracking and distribution of champ points, which incentivize participation and engagement. Admin can add new points through the Add Champ Point feature, correct or remove entries with the Delete Champ Point feature. META students can also view their own total Champ points and admin can review all Meta student's Champ points using the View Champ Point function. This feature encourages active involvement and recognizes contributions effectively.

Lastly, the Event Registration function ensures smooth participation management. Admin can add an event using the Add Event function, remove the event via the Delete Event feature, and view all the events which are upcoming via the View Event Registration function. This module ensures organized and hassle-free event attendance tracking.

In conclusion, the META Event Application offers a holistic solution for event management by seamlessly integrating features like user authentication, paperwork submission, committee organization, venue booking, champ point tracking, and event registration. Its user-focused design empowers META Students while ensuring admin maintain oversight and control, making it an indispensable tool for successful event management.

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## 2.3 User Characteristic

### 2.3.1 User Classes Definition


UserClass / Type	Description
META Student	Meta Students are the primary users who participate in events. They can sign up, log in, and submit event paperwork. They can also review their own submissions, request venue bookings, register for events, and track their champ points. However, they cannot verify documents or manage other users.
Admin	Admin are responsible for overseeing the entire application. They review and verify paperwork submitted by Meta Students, verify venue bookings, and manage event committees. Admin have full access to all system functions, ensuring the smooth operation of the platform.

*Table 2.1: User classes definition table*

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### 2.3.2 USER ACCESS FUNCTION

FUNCTION		STUDENTS	ADMIN
<b>Login Function</b>			
	Sign Up	/	/
	Log In	/	/
	Log out	/	/
<b>Paperwork Submission</b>			
	Review	/	/
	Submit	/	/
	Verify	/	/
<b>Event Committee Management</b>			
	Add	/	/
	Delete	/	/
	View	/	/
<b>Venue Booking</b>			
	Register	/	/
	Verify	/	/
	View	/	/
<b>Champ Point Management</b>			
	Add	/	/
	Delete	/	/
	View	/	/
<b>Event Registration</b>			
	View	/	/

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	<b>Add</b>		/
	<b>Delete</b>		/

*Table 2.2: User Access Function Table*

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## 2.4 General Constraints, Assumptions and Dependencies

CR_ID	CONSTRAINTS REQUIREMENTS
CR001	<b>Must</b> have internet access for META Event Application to work.
CR002	The user interface of the application <b>must</b> be simple enough for users to understand and make use of its capabilities.
CR003	Users cannot access the platform without valid credentials. Role-based permissions <b>must</b> strictly enforce access controls (e.g., administrators versus students).
CR004	File uploads <b>must</b> support common document formats (e.g., PDF, DOCX, JPEG).
CR005	Document size limits <b>should</b> be predefined (e.g., 10 MB per file).
CR006	The application <b>should</b> support a growing number of META students, administrators, and events without performance degradation.

*Table 2.3: General Constraint for META Event Application*

### Assumptions and Dependencies

The assumption and dependencies that are used in this system:

- META Event app users need to install the META Event app first so that they can use the app.
  - META Event app users need to install the META Event app before utilizing the features in the app.
  - META Event app users need to install META Event app from google play store for android and apps store for ios user.

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### 3.0 SPECIFIC REQUIREMENTS

#### 3.1 External Interface Requirement

##### 3.1.1 System Interface

###### Authentication Systems:

- Integration with Single Sign-On (SSO) providers such as Google or institutional login systems for user authentication.
- Support for user account creation via email/password for non-SSO users.

###### Event Management Modules:

- Integration with the CHAMP Points System to manage and update participant points.
- A connection to the internal META Faculty database for access to staff, student, and venue data.

##### 3.1.2 Hardware Interface

###### User Devices:

- The application must be compatible with:
  - Smartphones running iOS (version 14 or higher) and Android (version 9 or higher).
  - Tablets and PCs with modern web browsers (e.g., Chrome, Edge, Safari).

##### 3.1.3 Communication Interface.

- **Notifications and Messaging:**
  - Integration with email servers (SMTP) for sending confirmation emails, reminders, and notifications.
  - Push notification support for mobile applications to alert users about updates and deadlines.
- **Real-Time Communication:**
  - WebSocket or other real-time protocols for live updates, such as seat availability or participant registration status.
- **Error Logging and Monitoring:**
  - The application must log errors during communication and provide alerts for system failures.

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## 3.2 User Interface

### 3.2.1 Screen Flow (Wireframe) Diagram & Descriptions

#### 3.2.1.1 Screen Flow Diagram For Login Function (MUHAMAD DANISH HAKIMI BIN ALI)

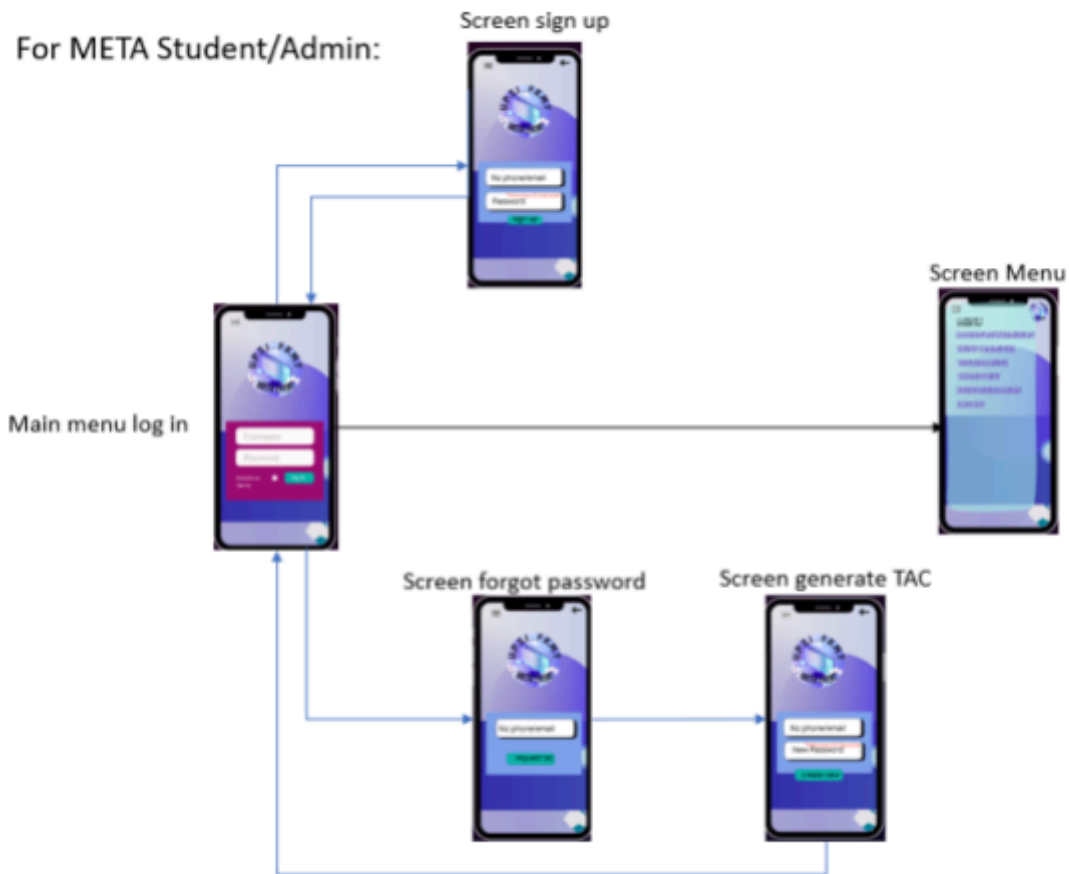


Diagram 3.1: Screen Flow Diagram for Login Function for META Student and Admin

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Diagram 3.2: Description for screen Log in main menu for META Student and Admin



Diagram 3.3: Description for screen sign up for META Student and Admin

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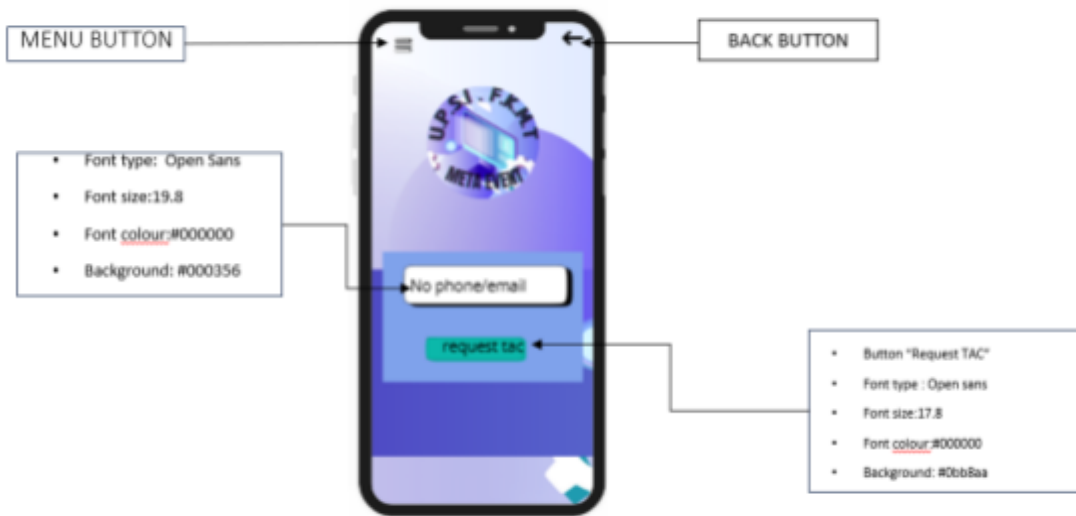



Diagram 3.4: Description for screen Forgot password for META Student and Admin



Diagram 3.5: Description for screen create new password for META Student and Admin

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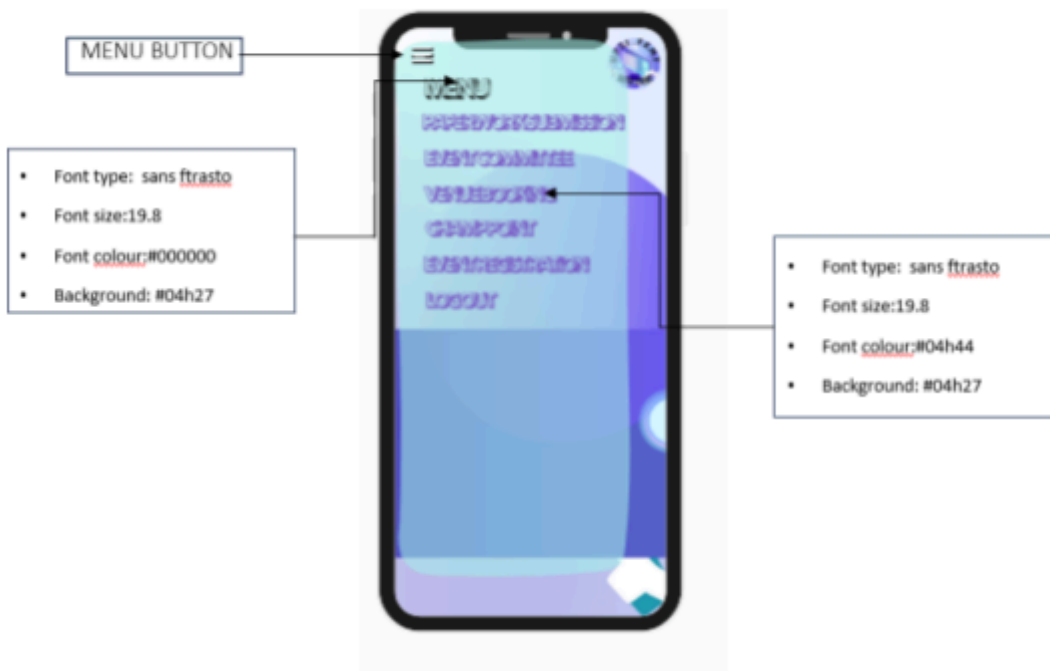



Diagram 3.6: Description for screen List of Menu for META Student and Admin

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### 3.2.1.2 Screen Flow Diagram For Paperwork Submission (PRISHA A/P GUNASEGARAN)

For META Student:



Diagram 3.7 : Screen Flow Diagram For Paperwork Submission For META Student

For Admin:




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Diagram 3.8 : Screen Flow Diagram For Paperwork Submission For Admin

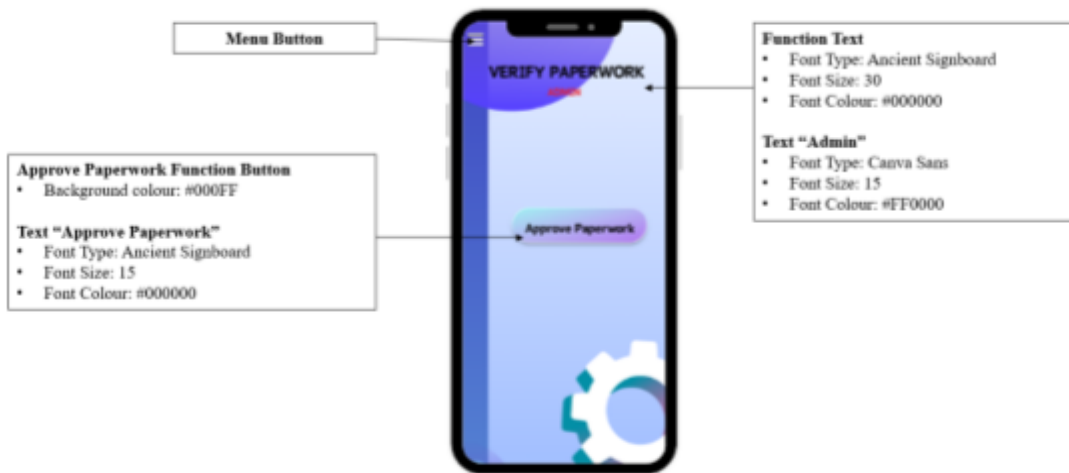


Diagram 3.9: Description for screen Verify Paperwork main menu for Admin

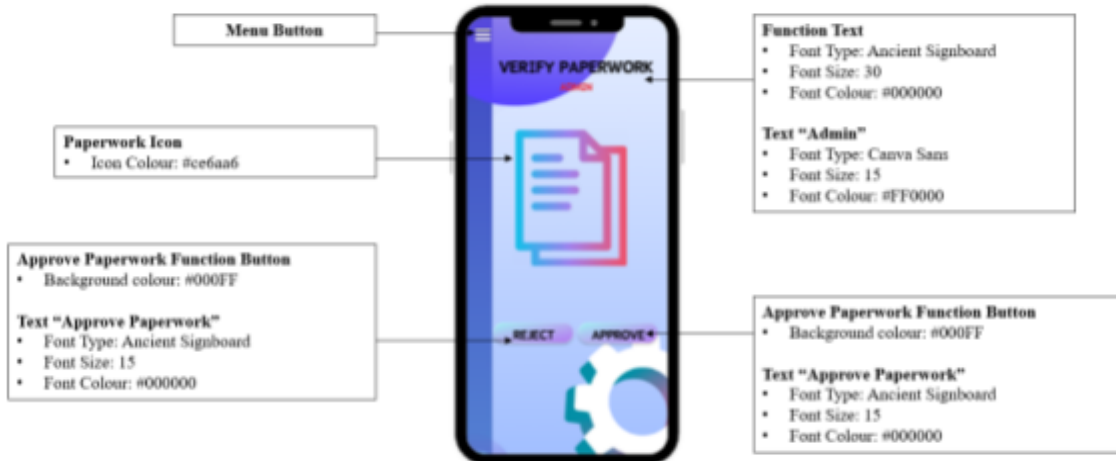



Diagram 3.10: Description for screen Verify Paperwork main menu for Admin

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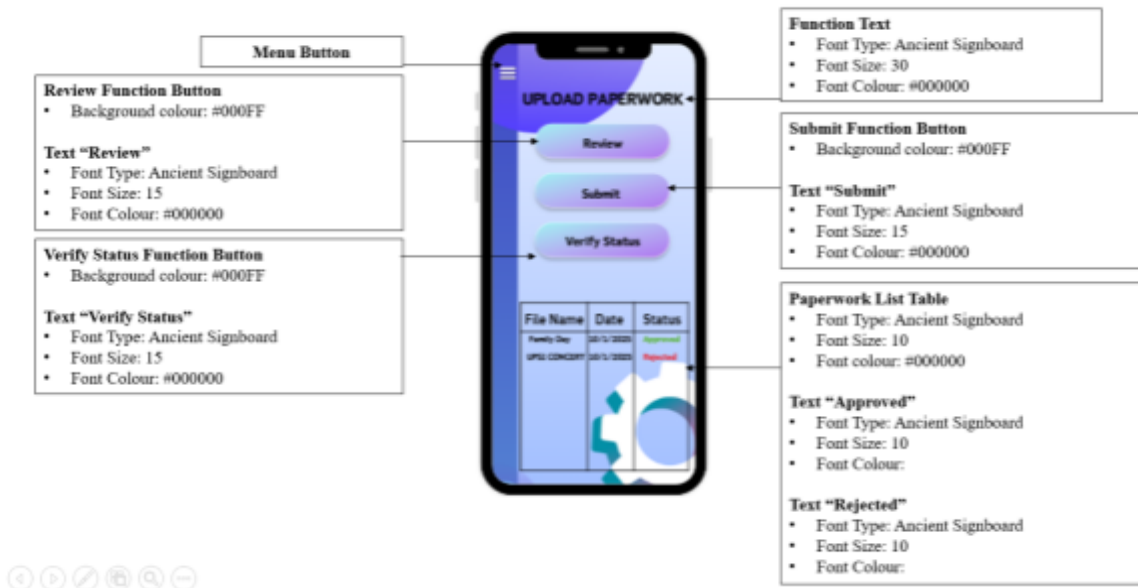


Diagram 3.11: Description for screen for main menu META Student



Diagram 3.12: Description for screen Review Paperwork for META Student

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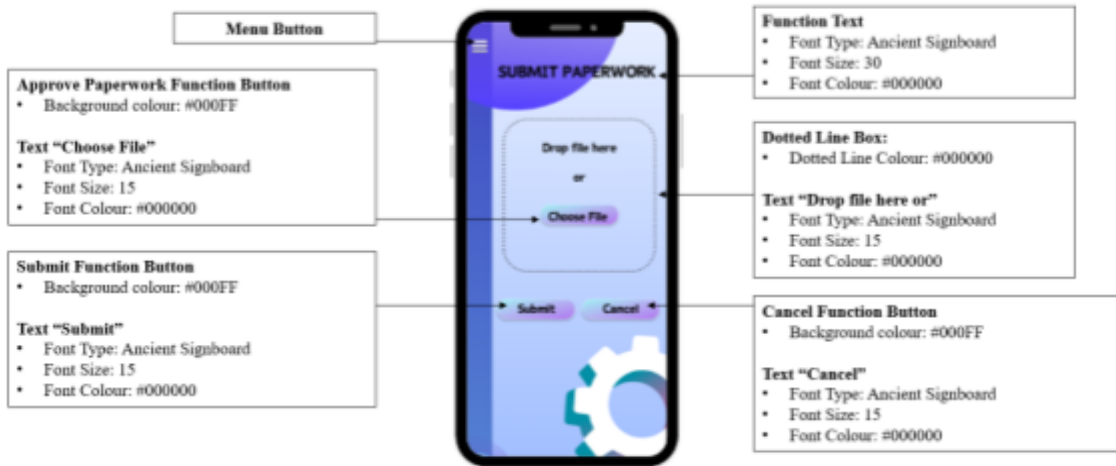


Diagram 3.13: Description for screen Submit Paperwork for META Students

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### 3.2.1.3 Screen Flow Diagram For Event Committee Management (SHI KAI YAN)

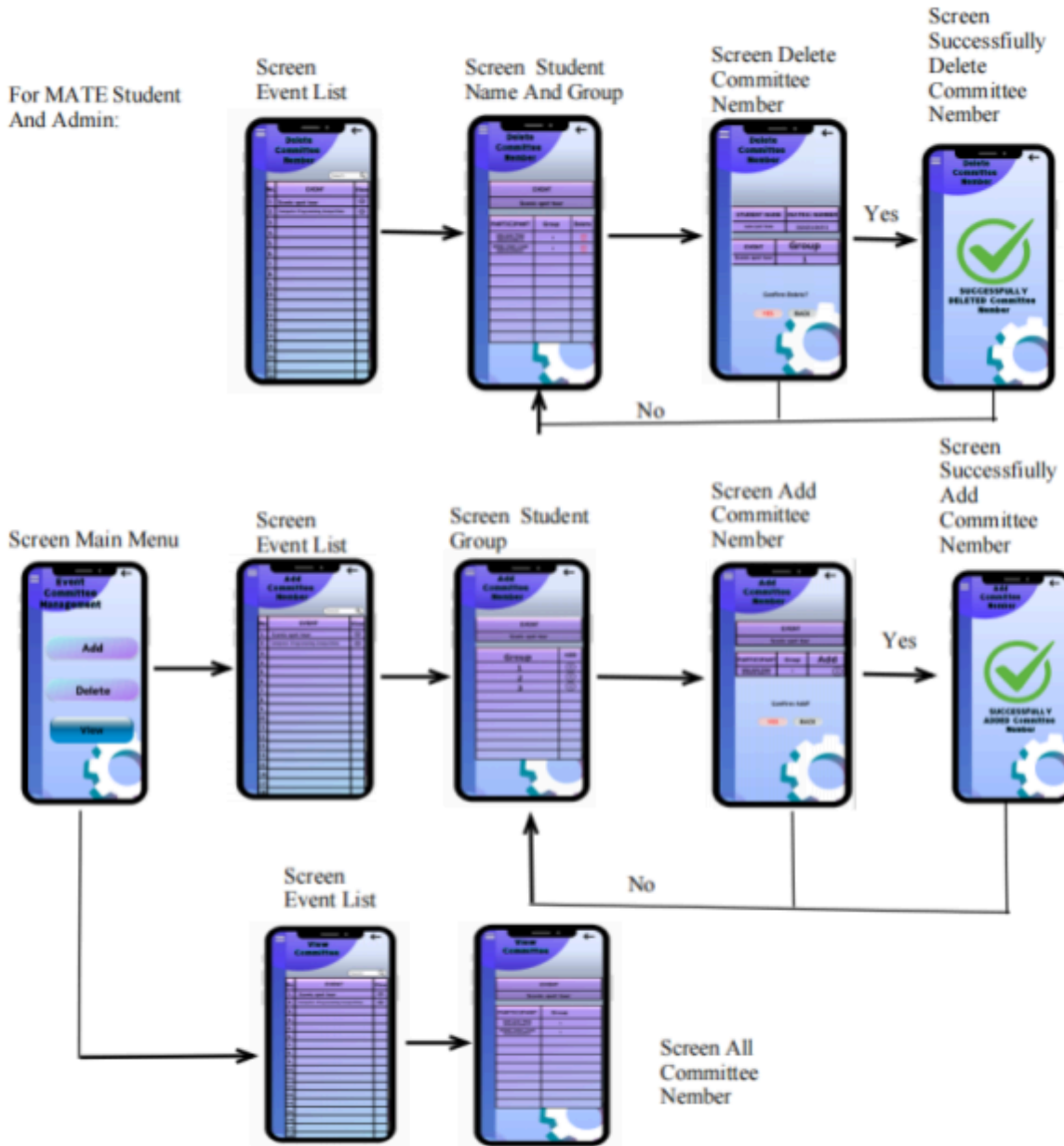


Diagram 3.14: Screen Flow Diagram For Event Committee Management

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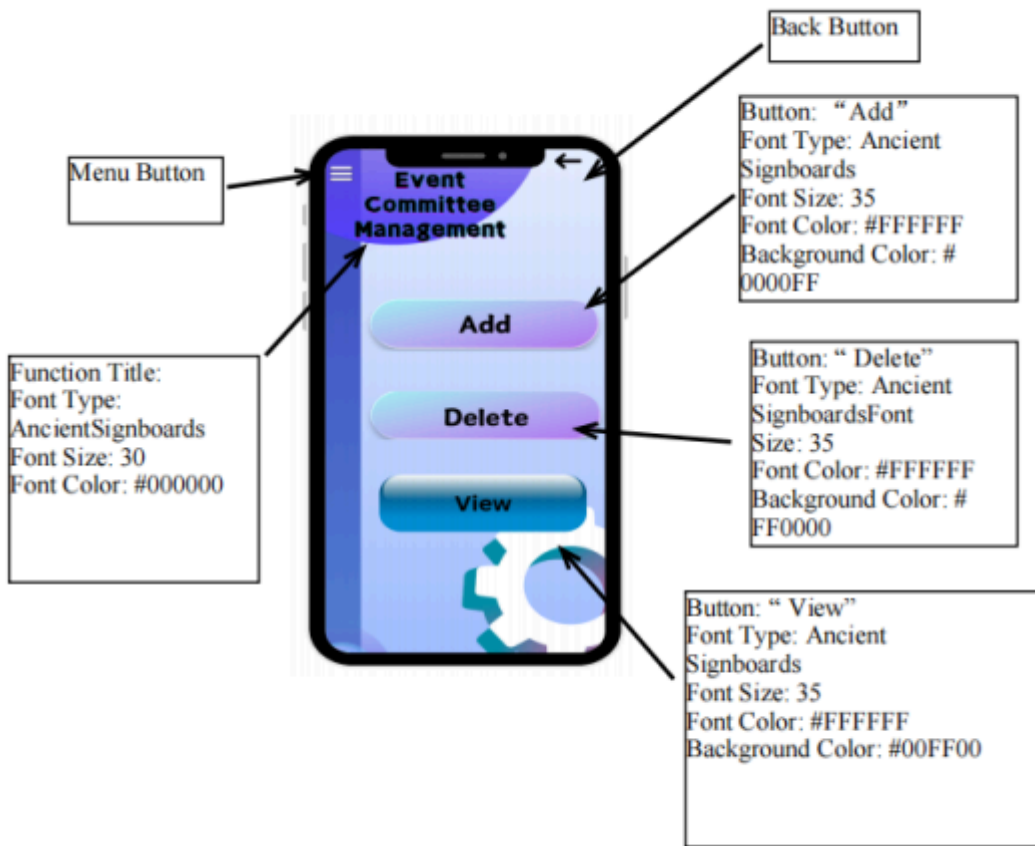


Diagram 3.15: Description for screen event committee mangement main menu

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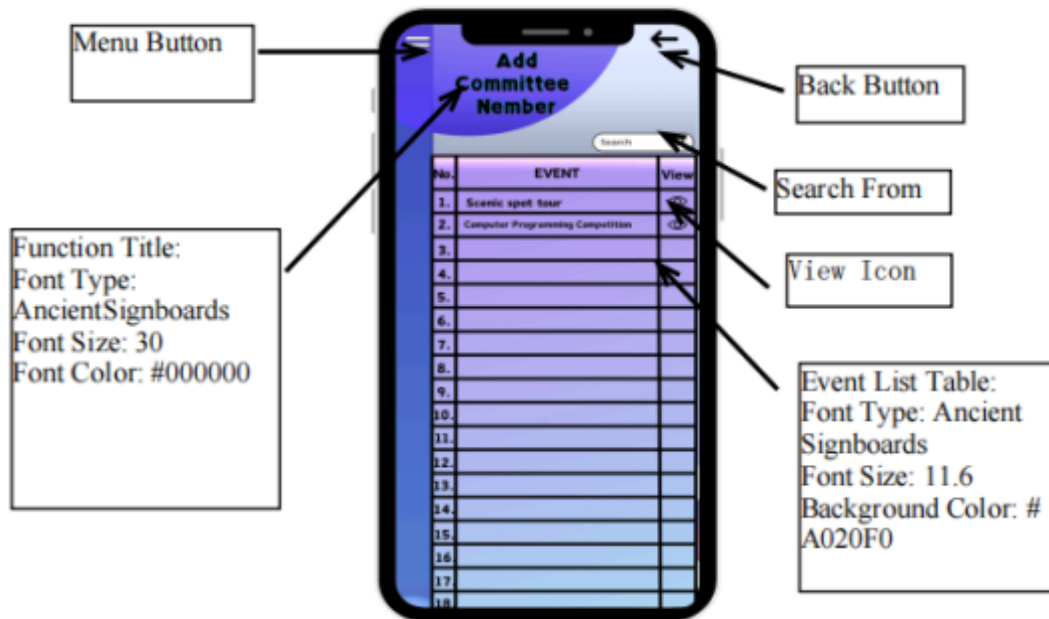


Diagram 3.16: Description for screen event list

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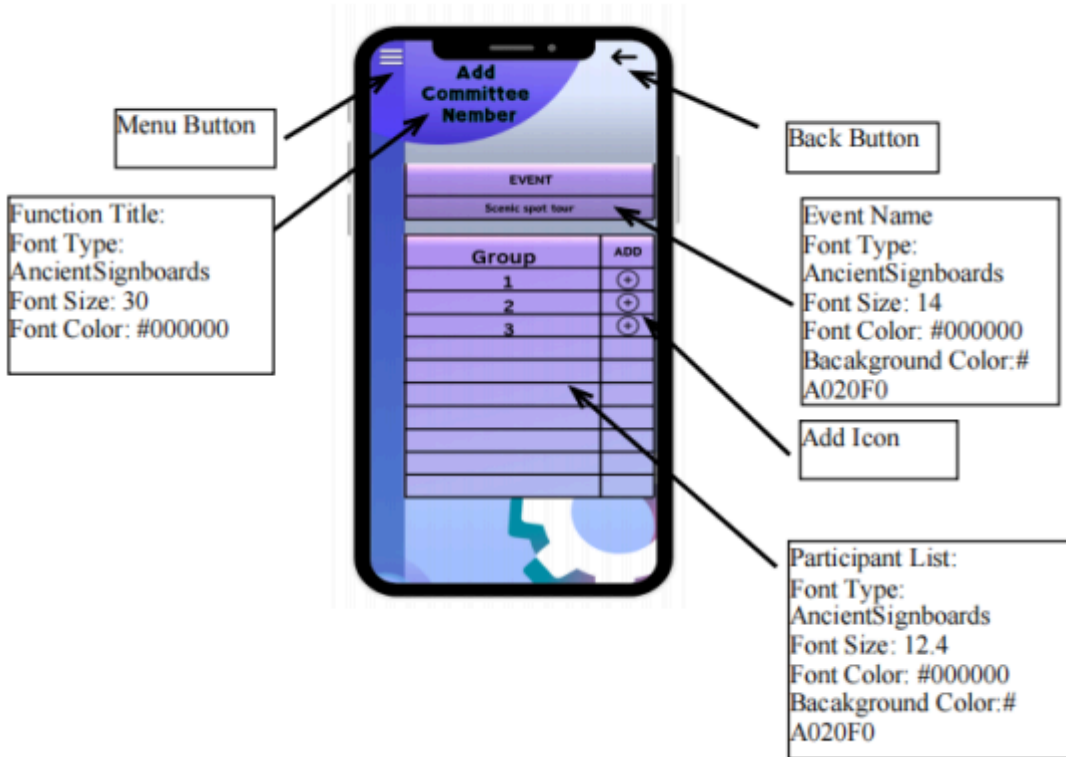



Diagram 3.17: Description for screen participant list (add)

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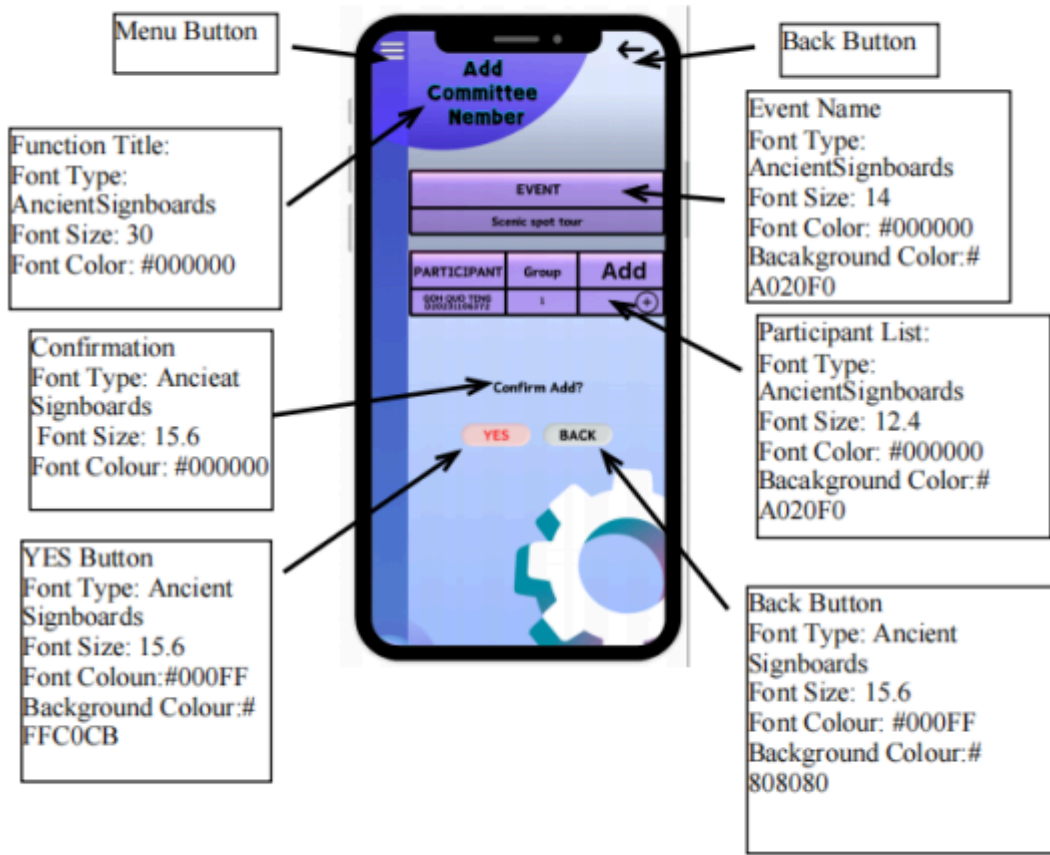



Diagram 3.18: Description for screen add committee member

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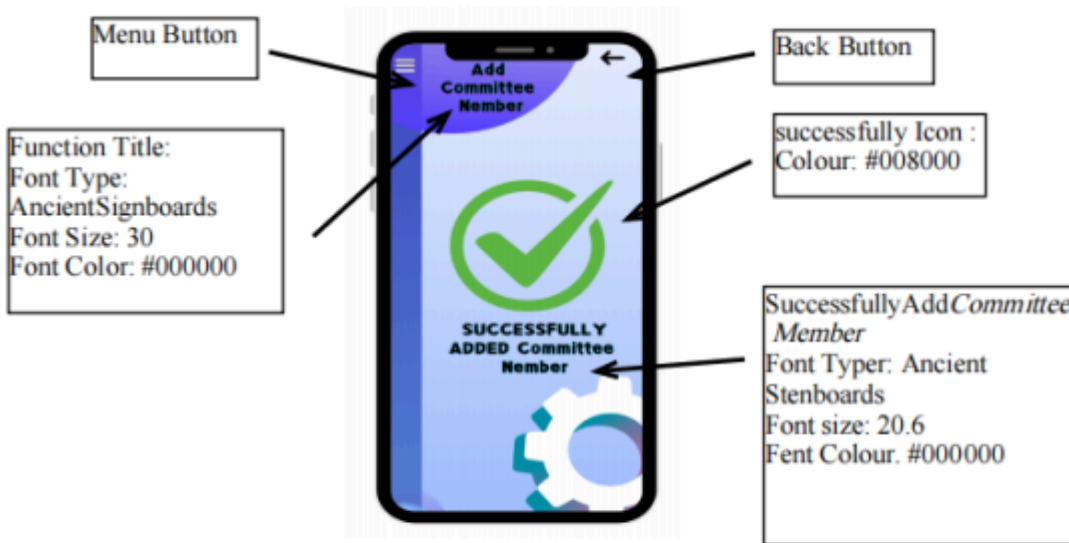


Diagram 3.19: Description for screen successfully added committee member

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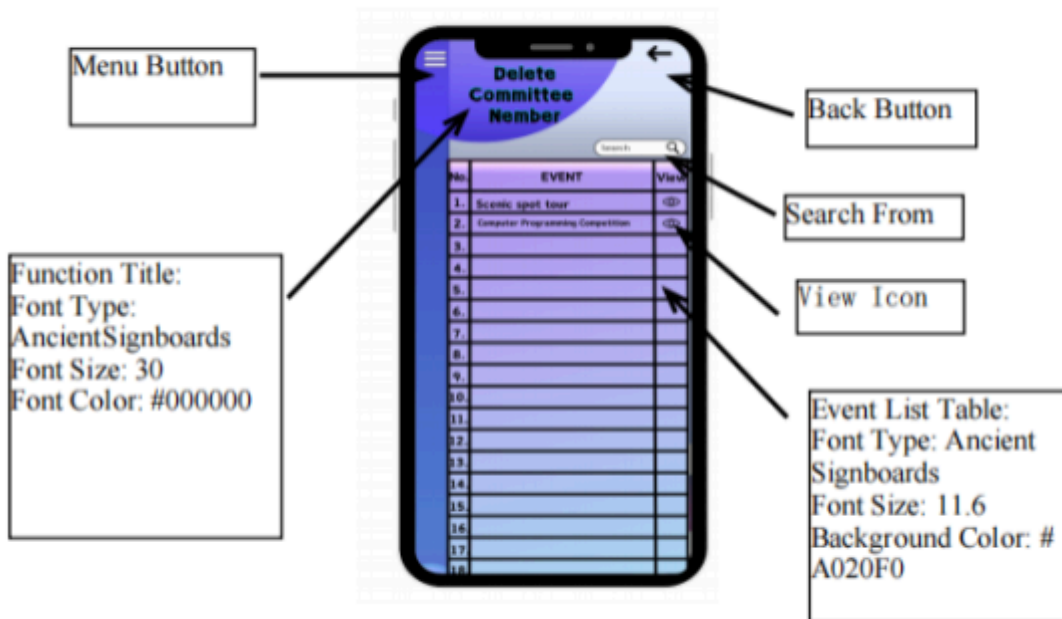



Diagram 3.20: Description for screen participant list (delete)

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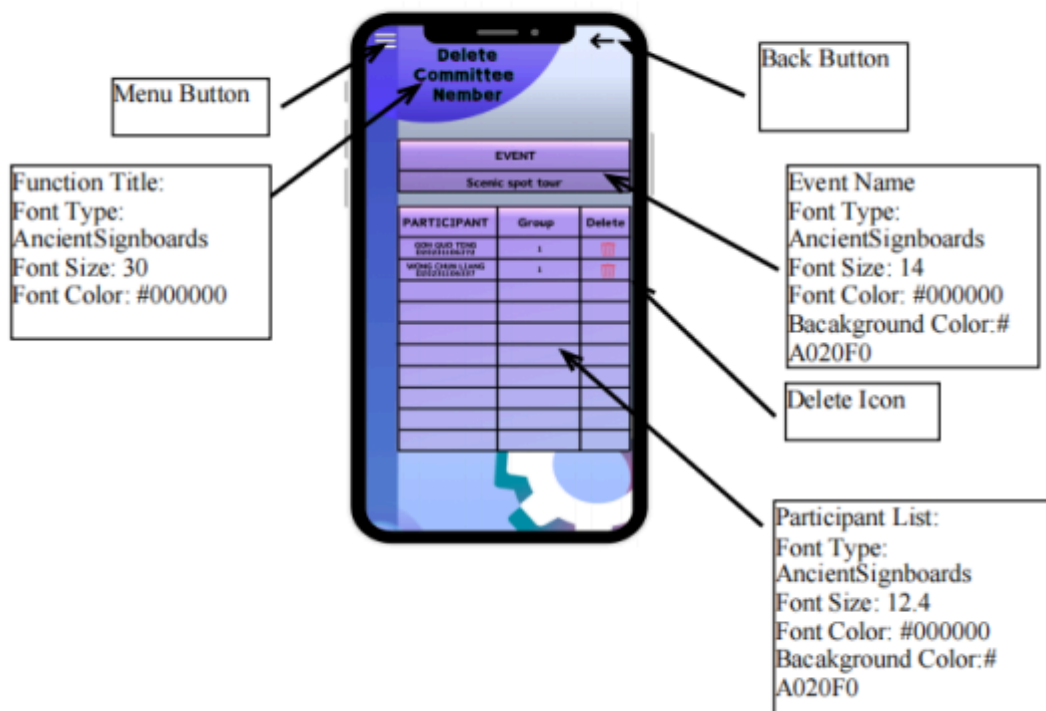


Diagram 3.21: Description for screen list event the student participate in

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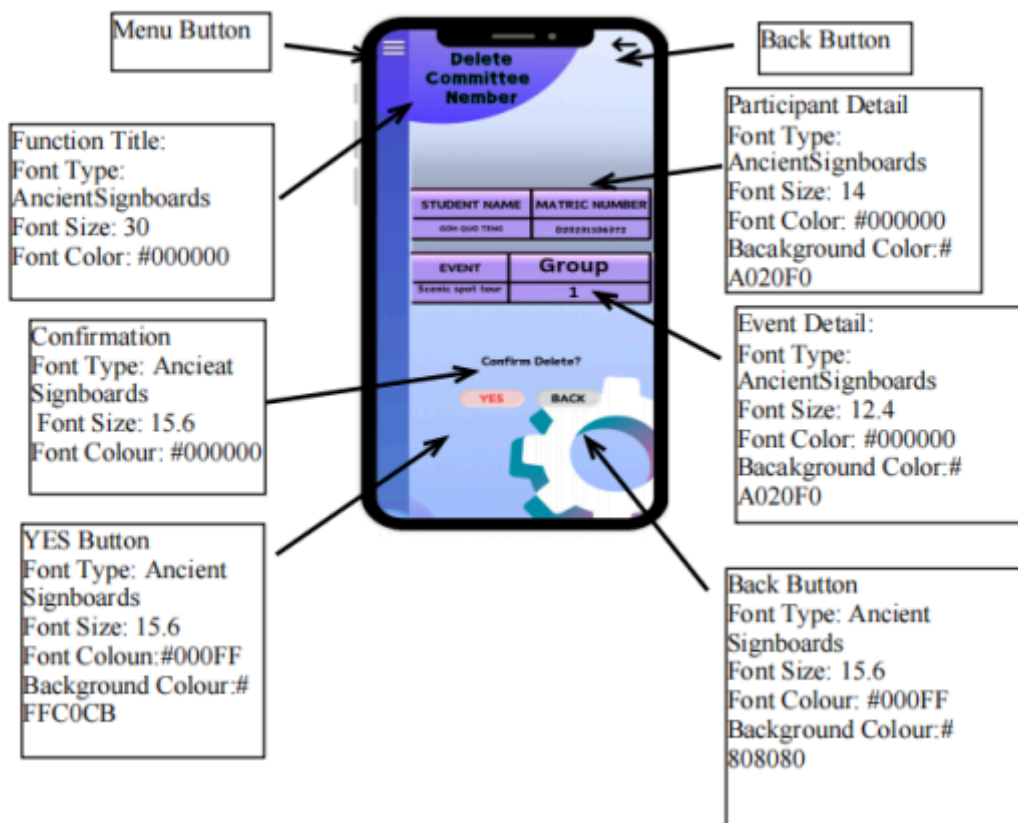



Diagram 3.22: Description for screen delete committee member

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Diagram 3.23: Description for screen successfully deleted committee member

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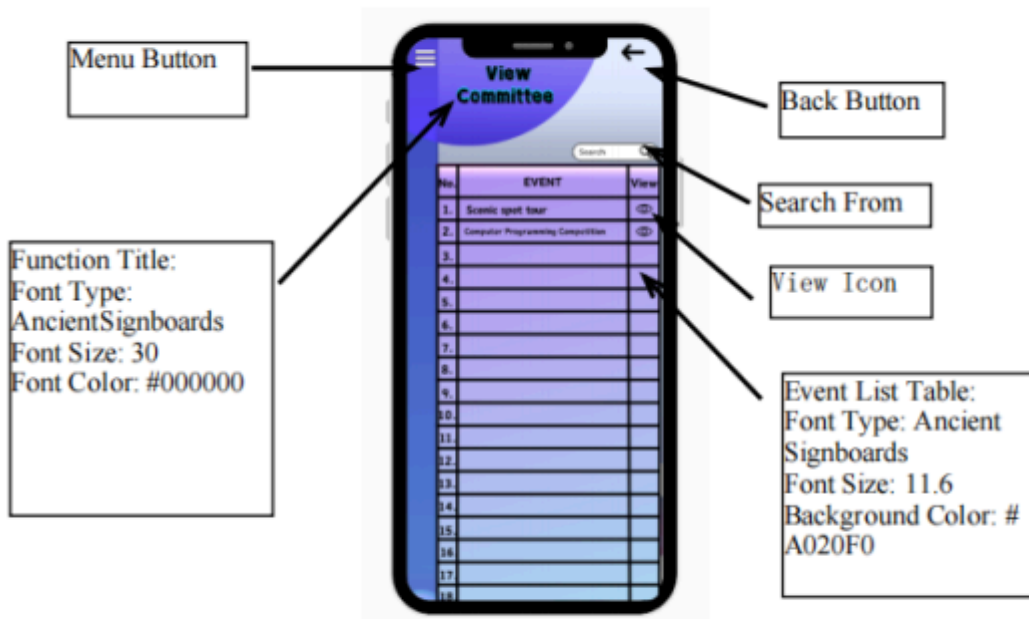



Diagram 3.24: Description for screen all participants list

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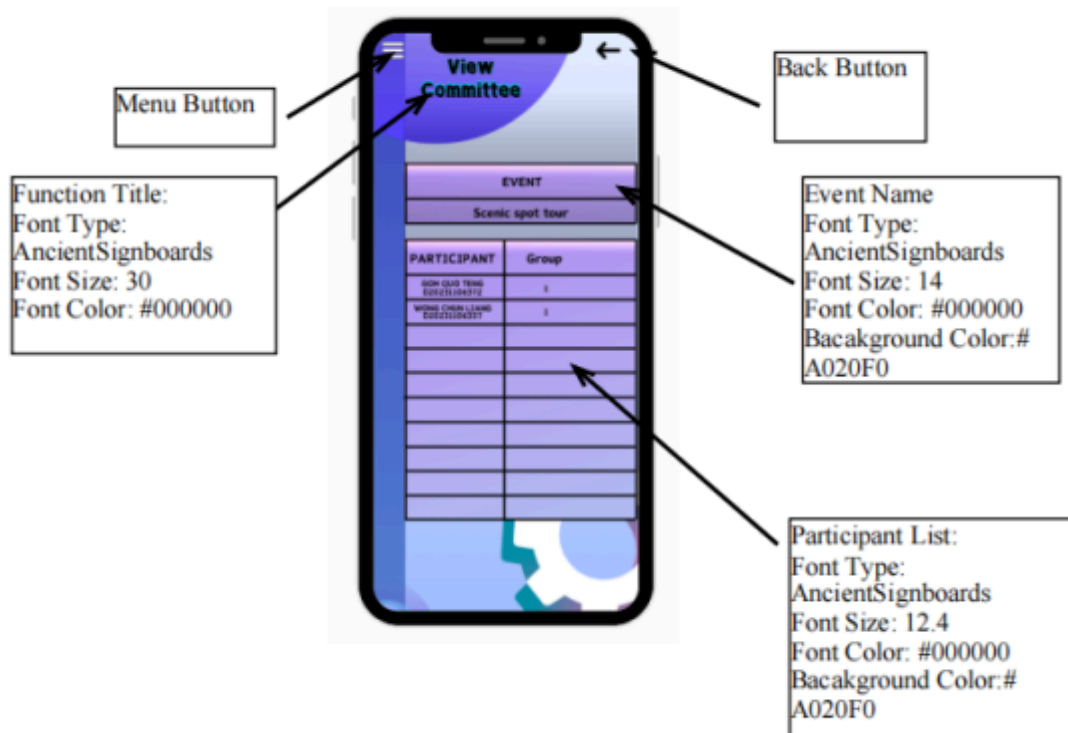



Diagram 3.25 : Description for screen committee member management main menu

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### 3.2.1.4 Screen Flow Diagram For Venue Booking (WONG CHUN LIANG)

For META Student:

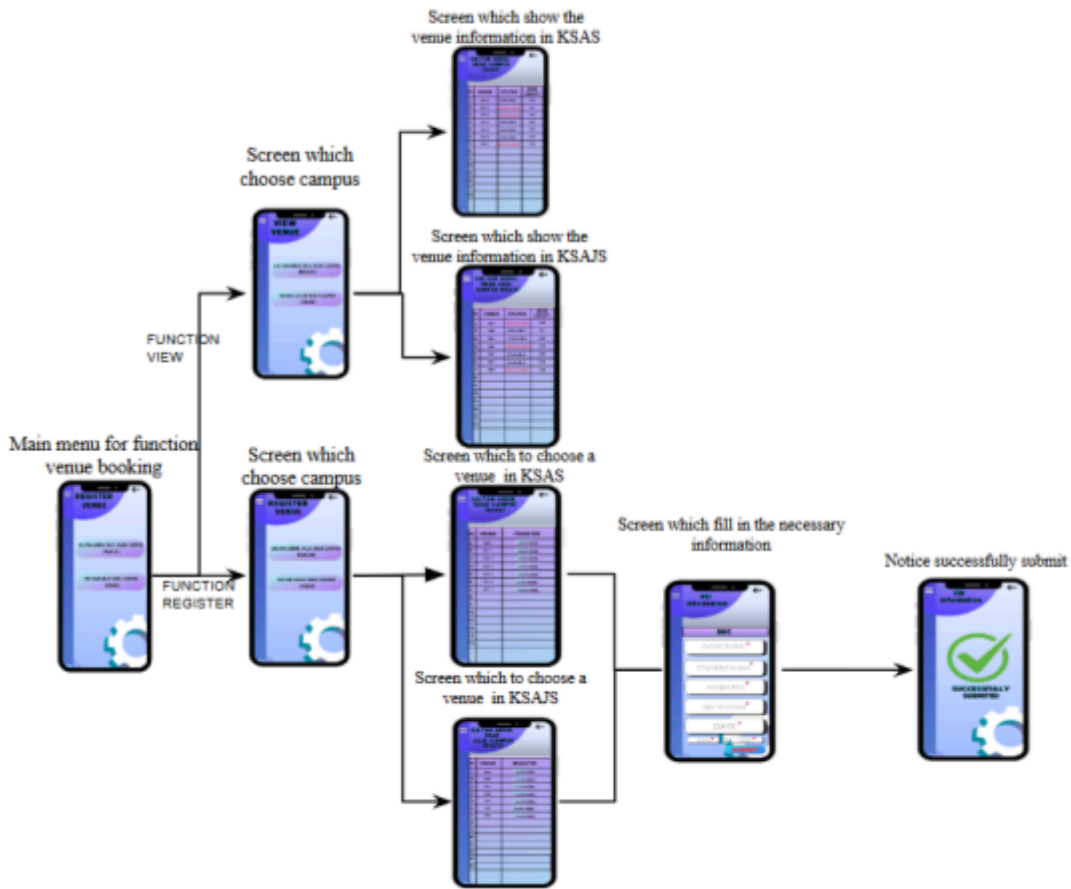



Diagram 3.26: Screen Flow Diagram For Venue Booking For META Student

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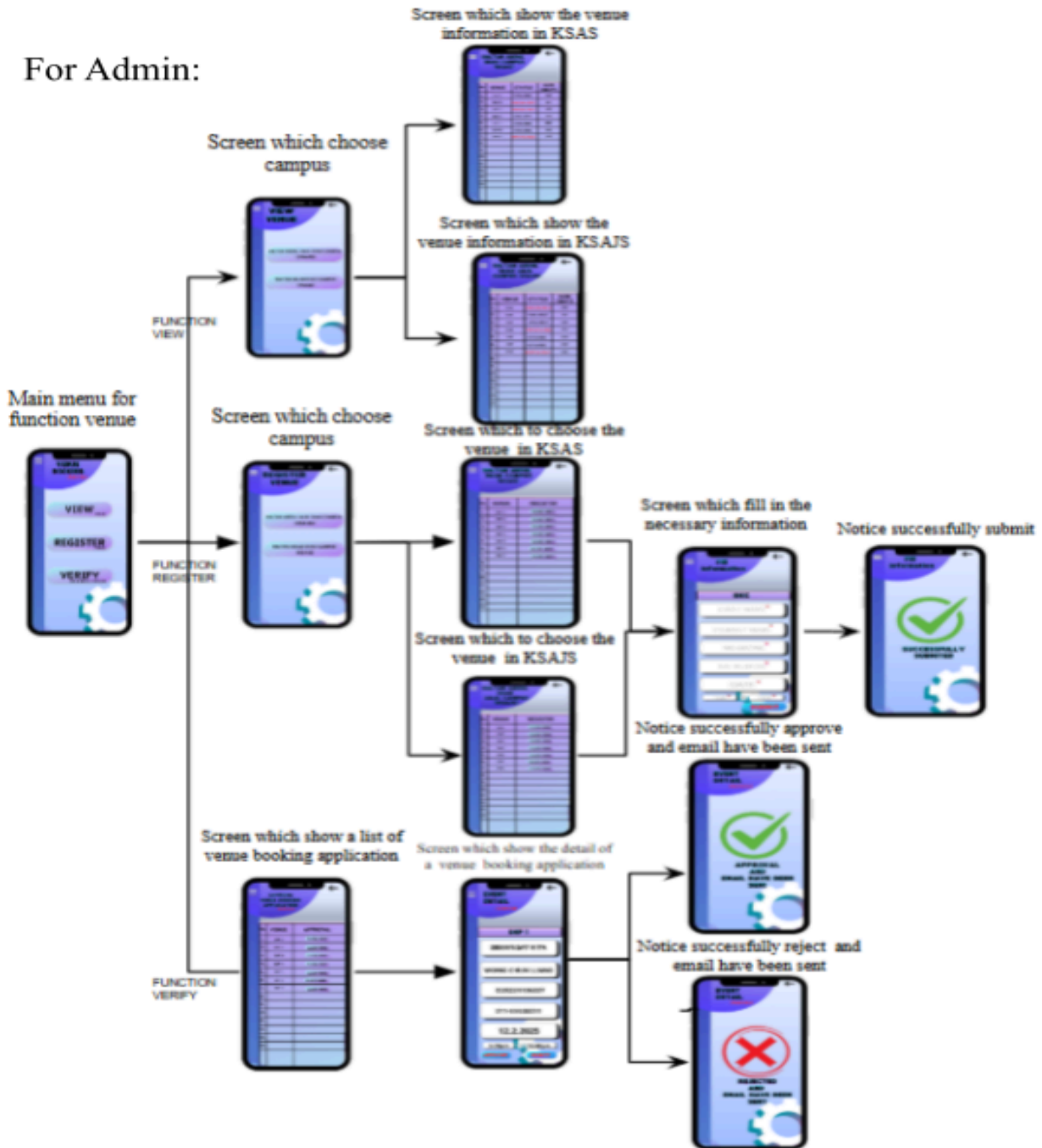



Diagram 3.27: Screen Flow Diagram For Venue Booking For Admin

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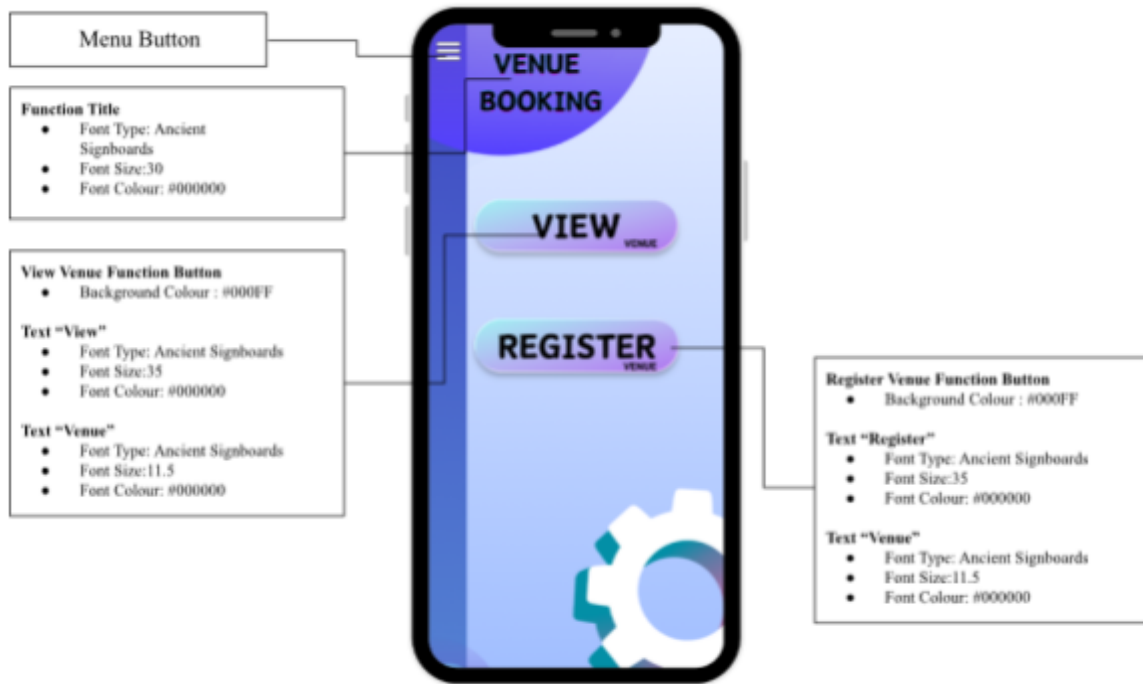


Diagram 3.28: Description for screen Venue Booking main menu for META Student

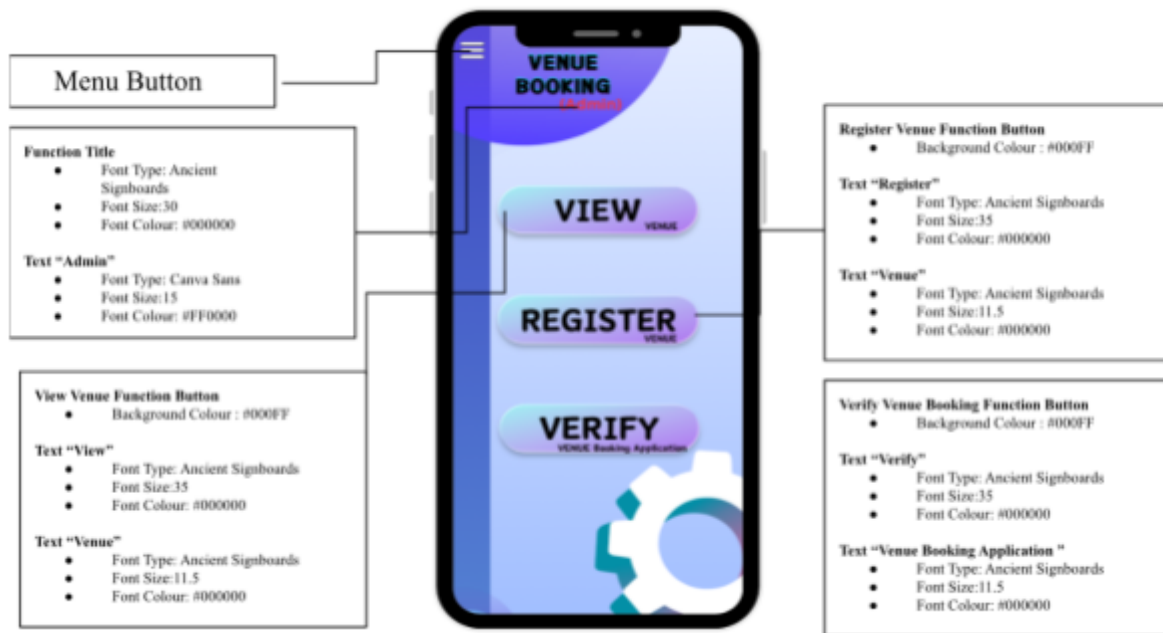


Diagram 3.29: Description for screen Venue Booking main menu for Admin

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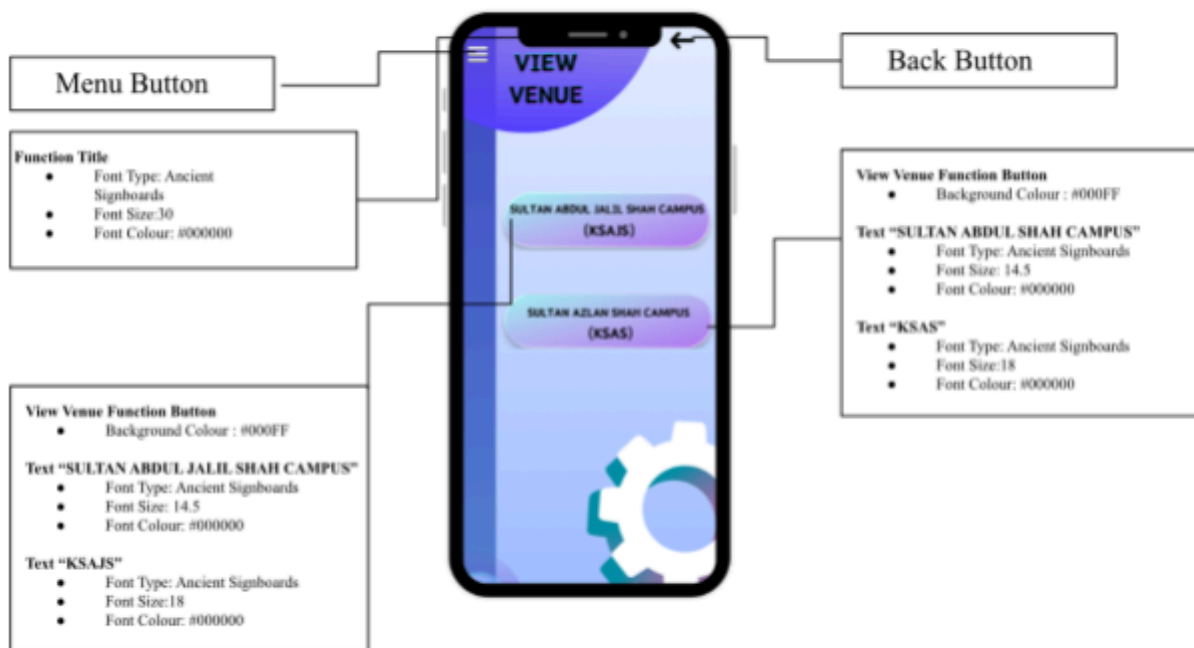


Diagram 3.30: Description for screen which choose campus for META Student and Admin



Diagram 3.31: Description for screen which show the venue information in KSAJS for META Student and Admin

	<b>DOCUMENT IDENTIFICATION</b>	
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	<b>META EVENT APPLICATION</b>	<b>3.0</b>

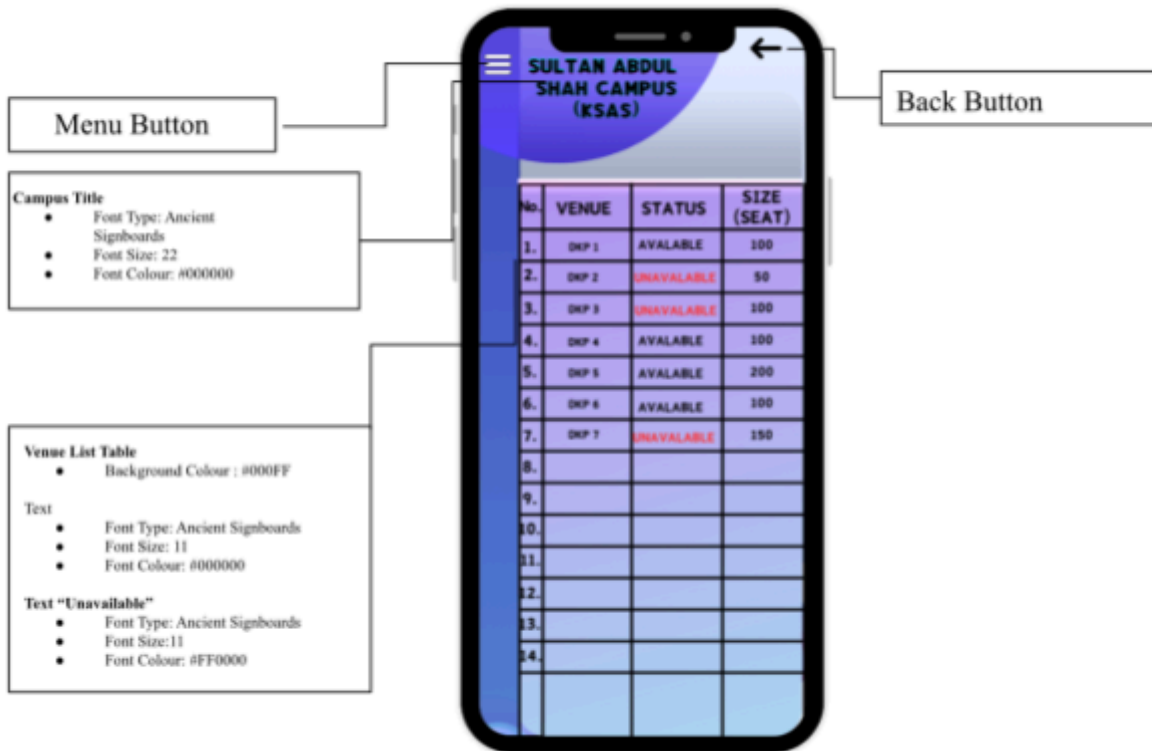


Diagram 3.32: Description for screen which show the venue information in KSAS for META Student and Admin

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0

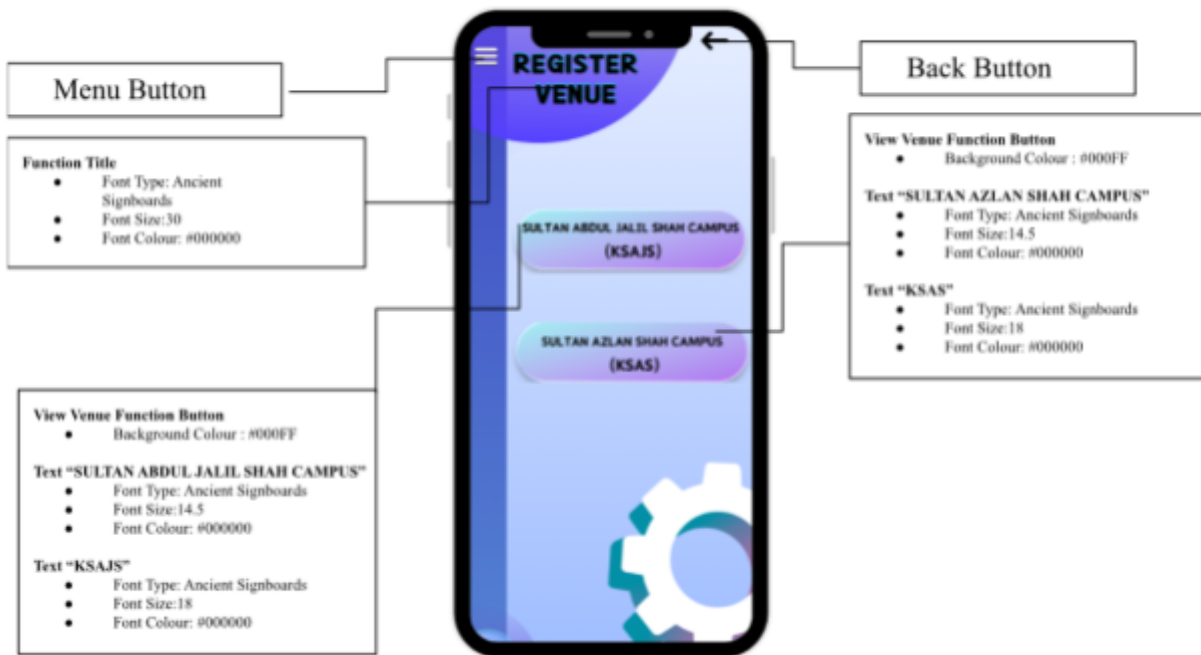


Diagram 3.33 : Screen Flow Diagram For Champ Point Management For Admin

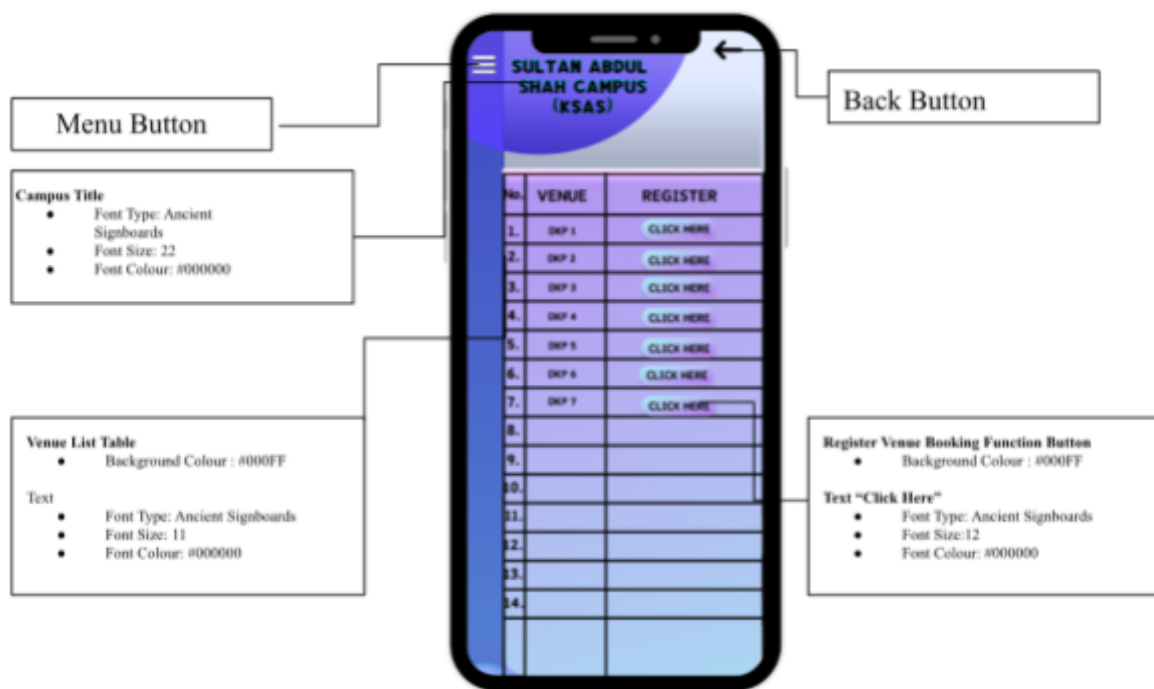


Diagram 3.34: Description for screen which choose the venue in KSAS for META Student and Admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0



Diagram 3.35: Description for screen which choose the venue in KSAJS for META Student and Admin

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	<b>META EVENT APPLICATION</b>	<b>3.0</b>

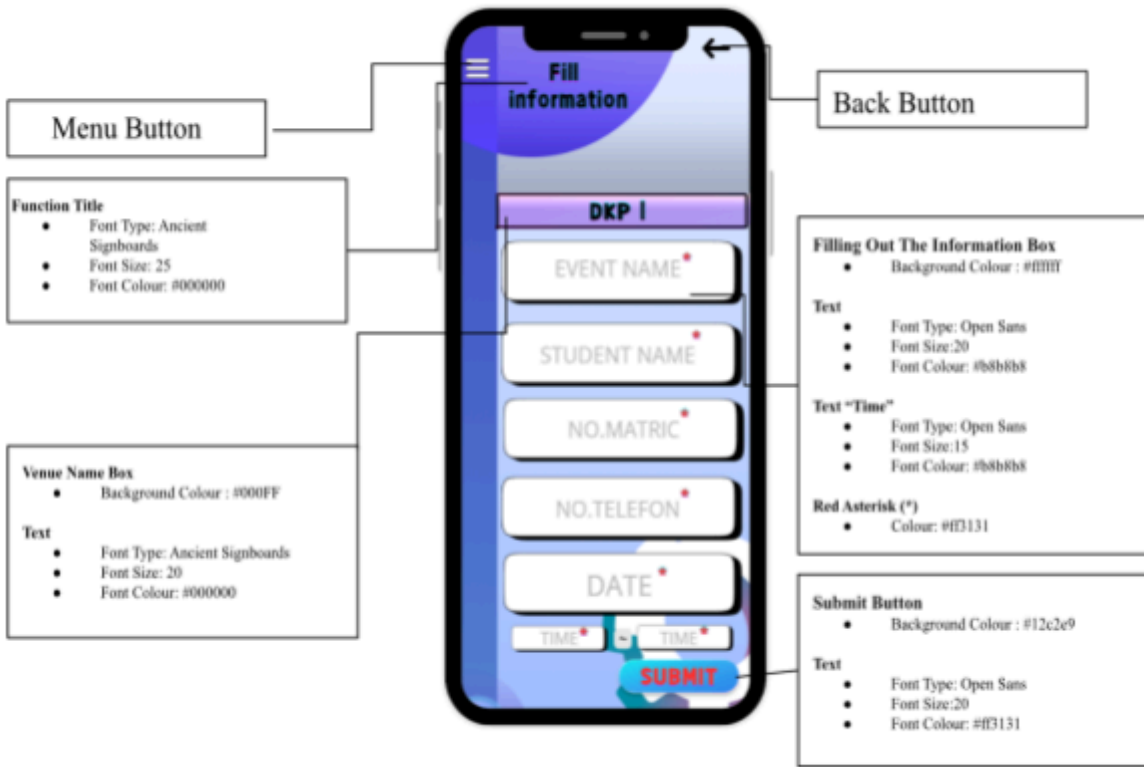



Diagram 3.36: Description for screen which fill the necessary information for META Student and Admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0



Diagram 3.37: Description for screen which is successfully submitted notice for META Student and Admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

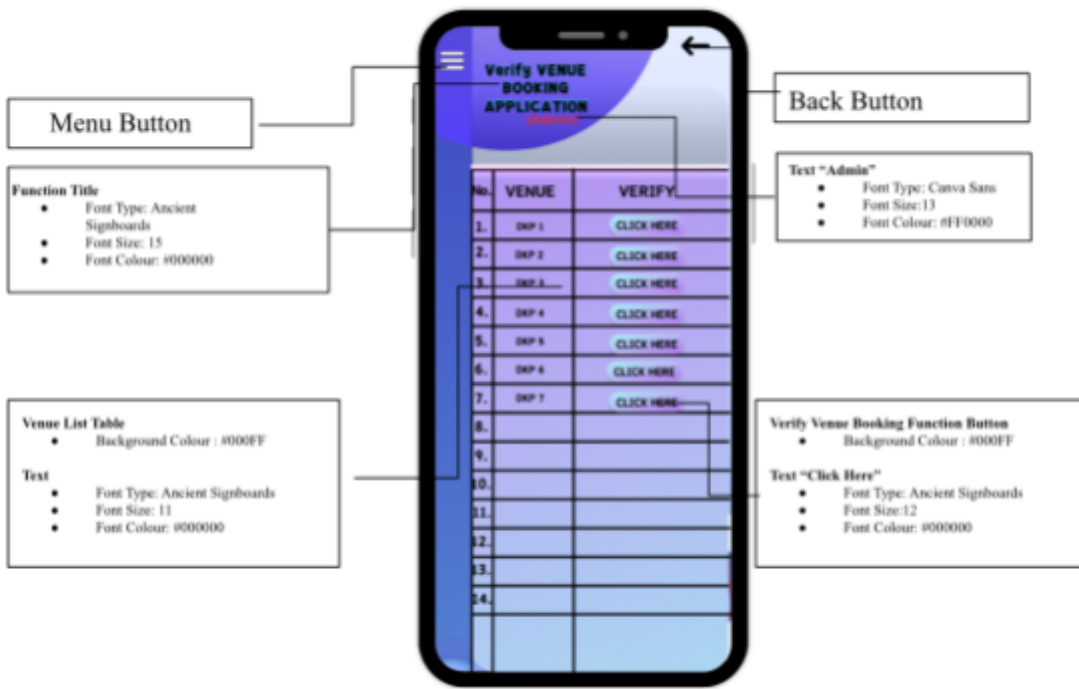


Diagram 3.38: Description for screen which show a list of venue booking application in for Admin

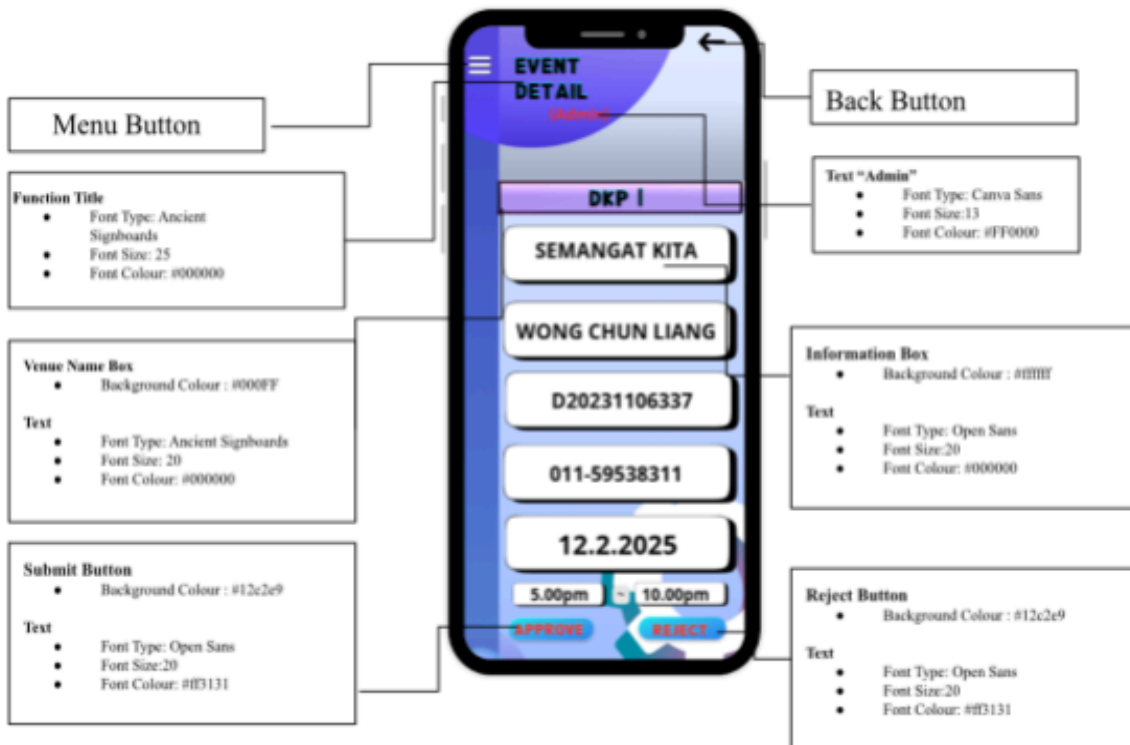


Diagram 3.39: Description for screen which show the detail of venue booking application in for Admin



	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0



Diagram 3.40: Description for screen which is successfully approve notice and send email for Admin



Diagram 3.41: Description for screen which is successfully reject notice and send email for Admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.2.1.5 Screen Flow Diagram For Champ Point Management (GOH QUO TENG)

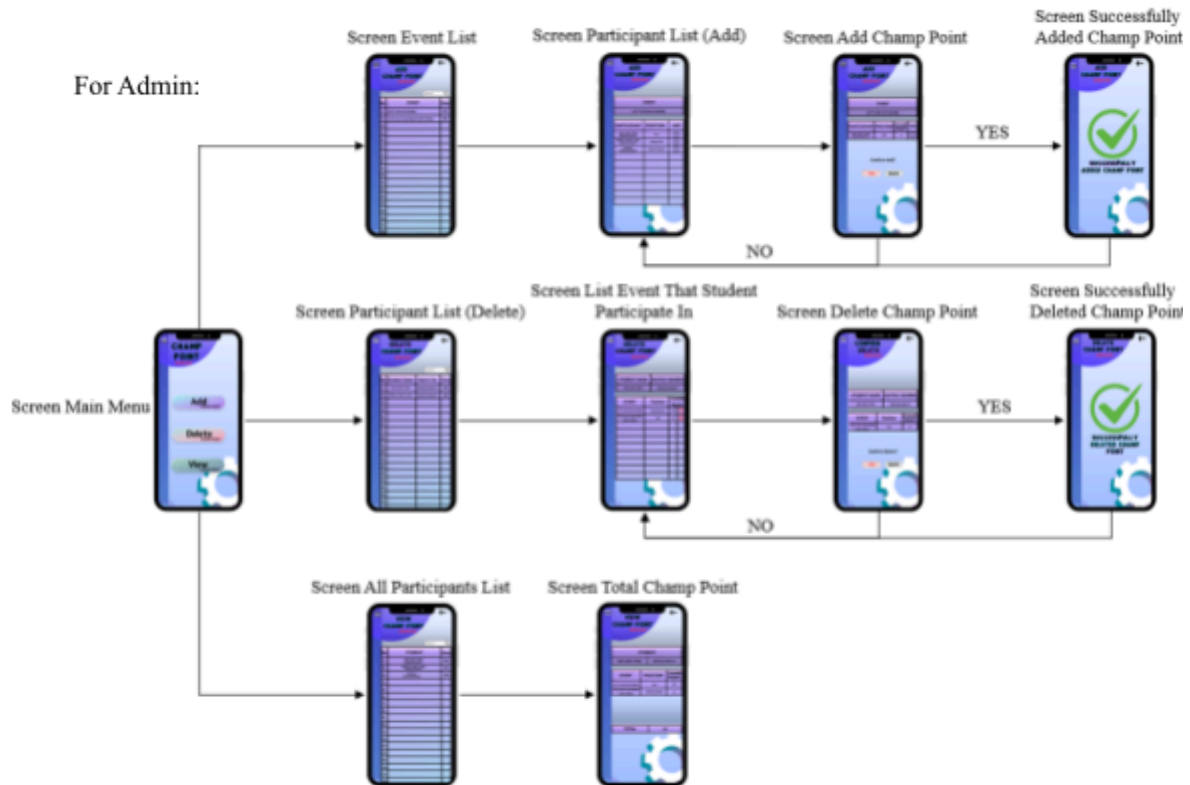


Diagram 3.42 : Screen Flow Diagram For Champ Point Management For Admin

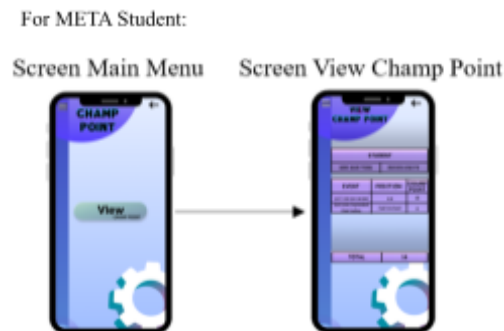


Diagram 3.43 : Screen Flow Diagram For Champ Point Management For META Student

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

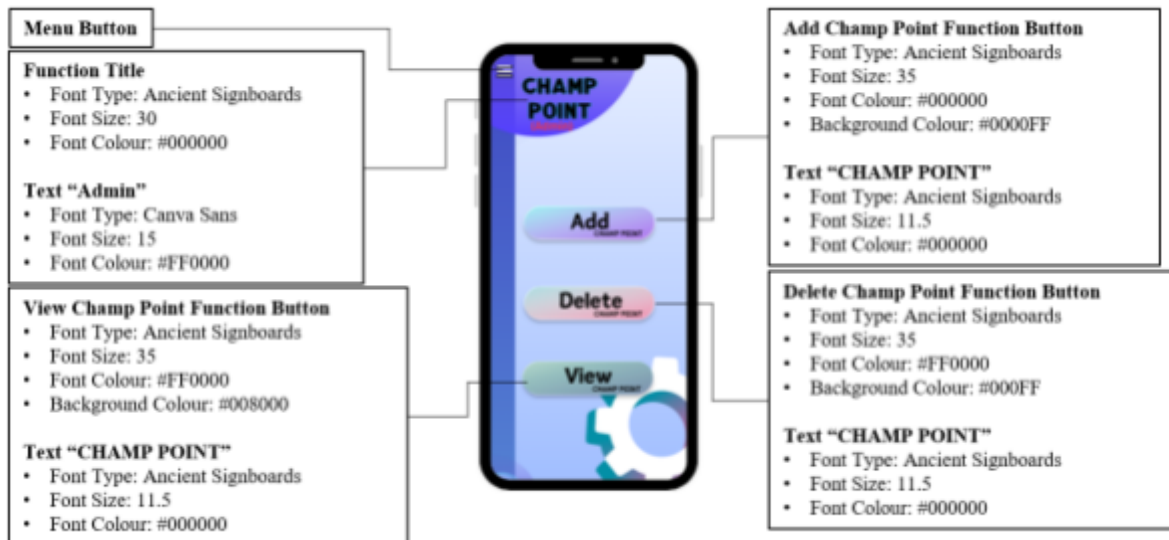


Diagram 3.44: Description for screen champ point management main menu for admin

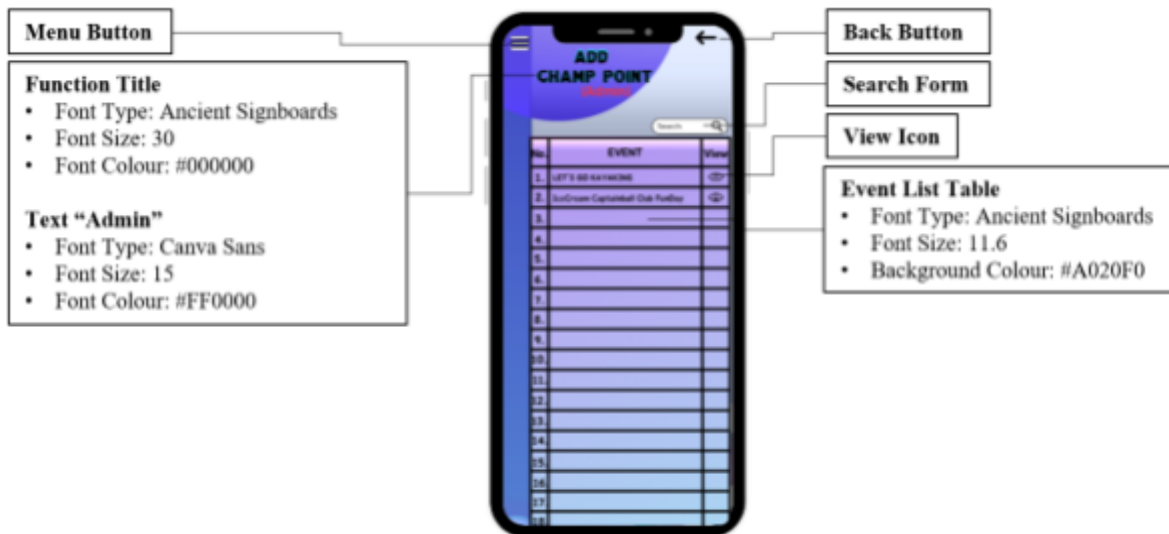



Diagram 3.45: Description for screen event list

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0



Diagram 3.46: Description for screen participant list (add)

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0

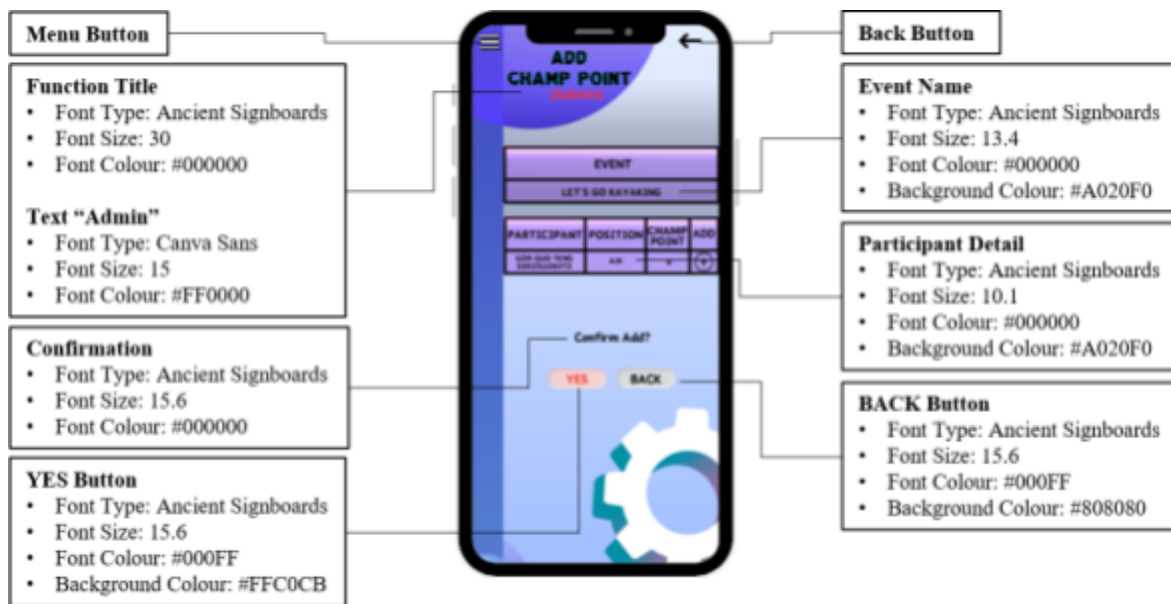


Diagram 3.47: Description for screen add champ point

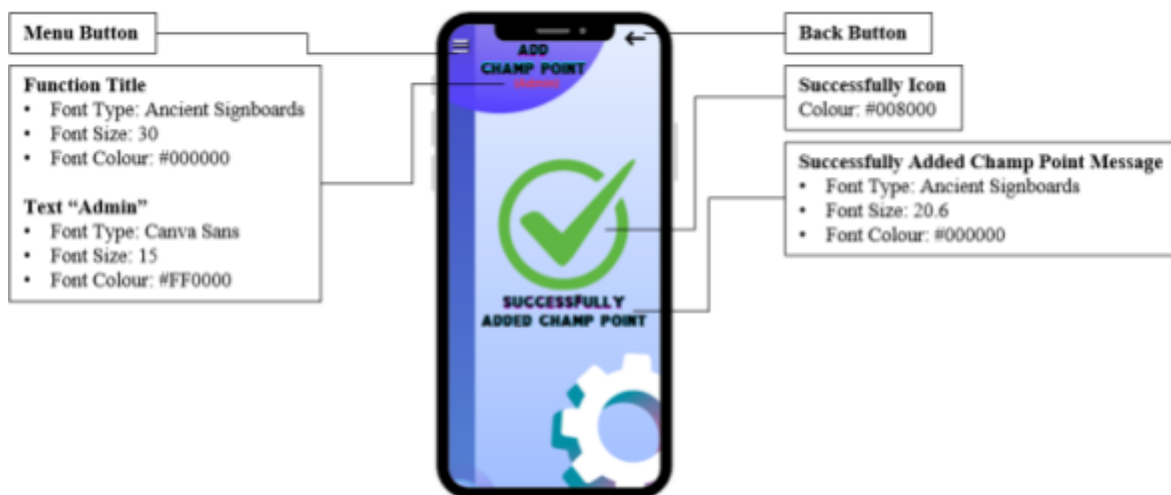


Diagram 3.48: Description for screen successfully added champ point

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

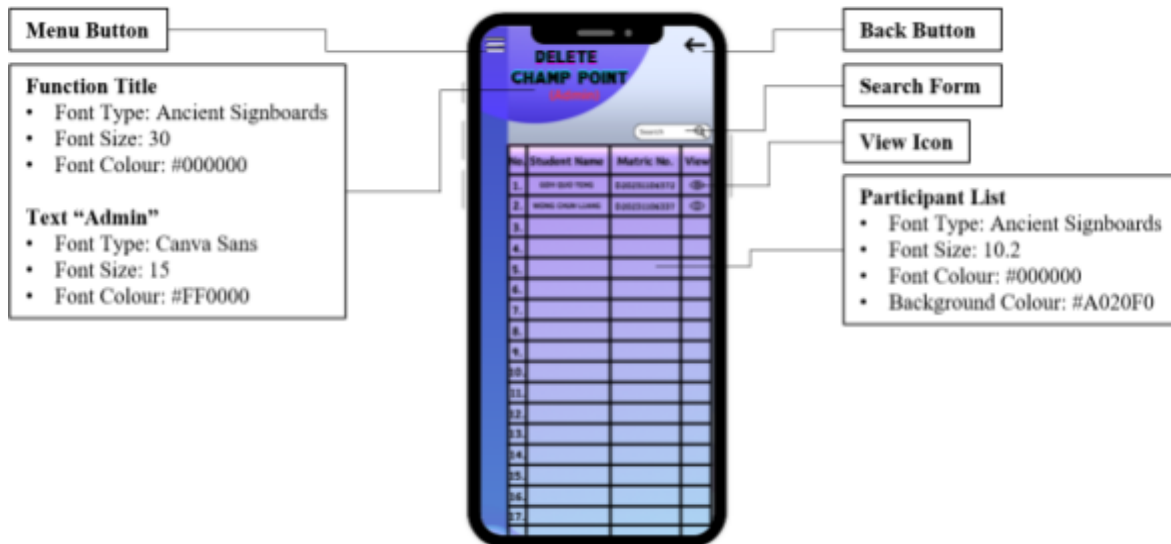


Diagram 3.49: Description for screen participant list (delete)



Diagram 3.50: Description for screen list event the student participate in

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0

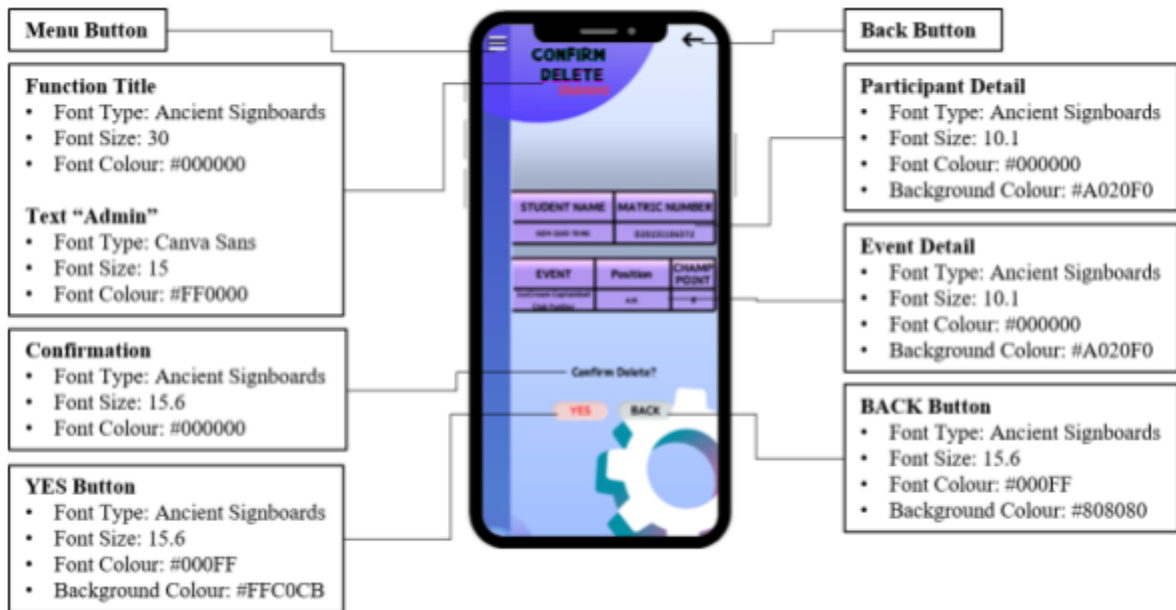



Diagram 3.51: Description for screen delete champ point



Diagram 3.52: Description for screen successfully deleted champ point for META student and admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

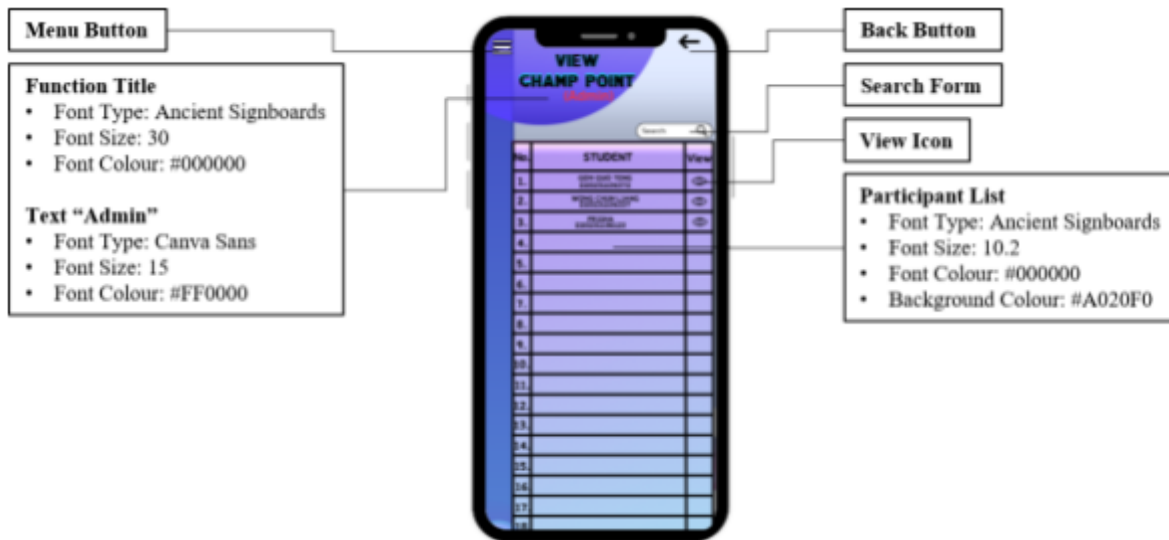


Diagram 3.53: Description for screen successfully deleted champ point for META student and admin

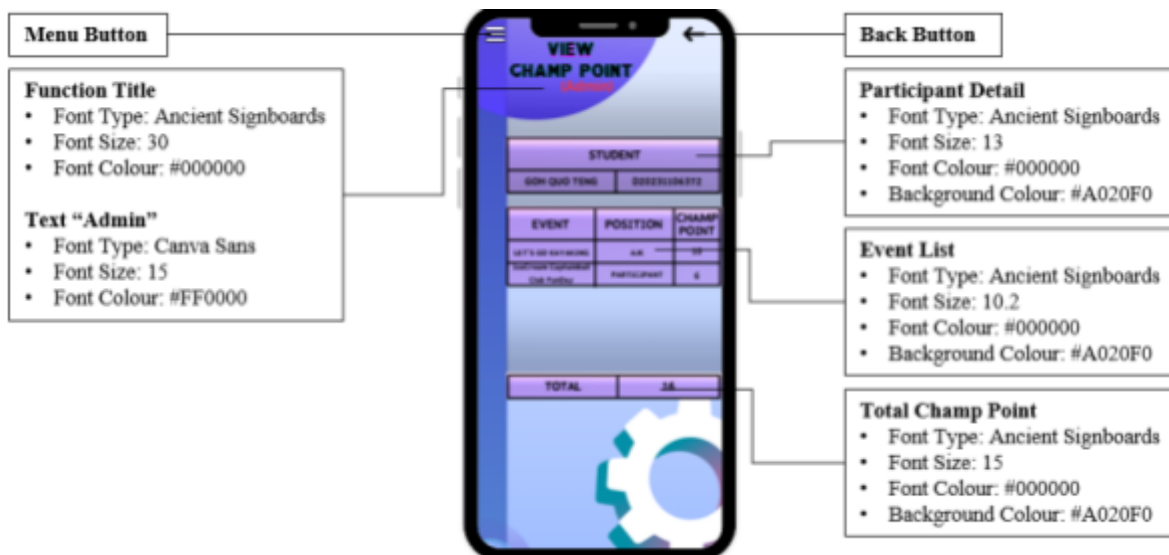
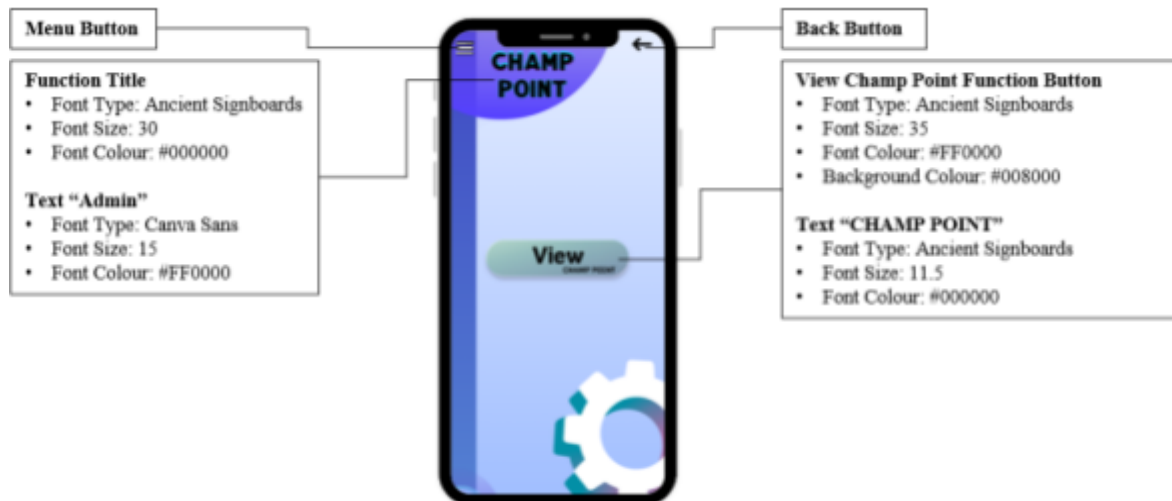


Diagram 3.54: Description for screen total champ point

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0



*Diagram 3.55 : Description for screen champ point management main menu for student and Description for screen total champ point*

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.2.1.6 Screen Flow Diagram For Event Registration (MUHAMAD DANISH HAKIMI BIN ALI)

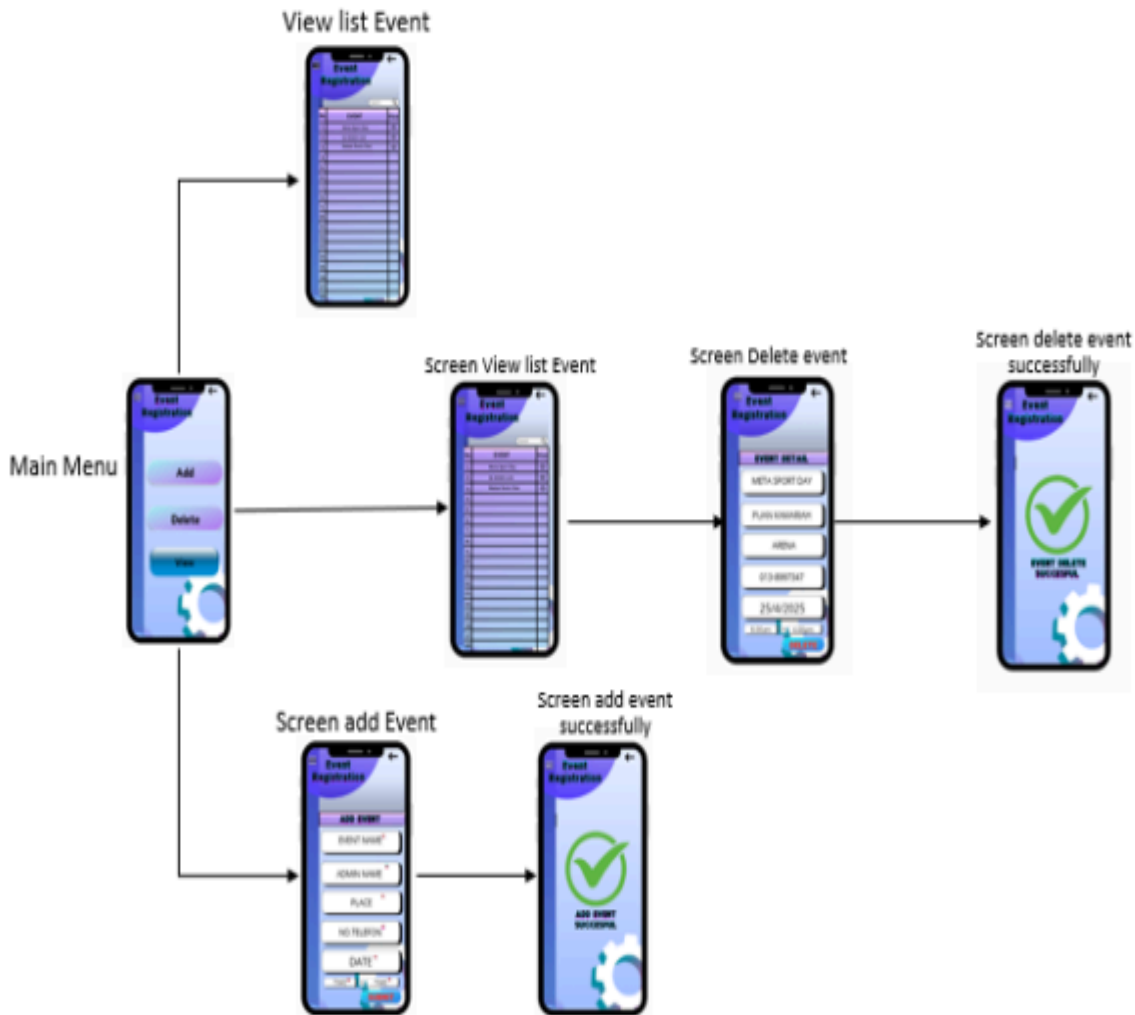



Diagram 3.56 : Screen Flow Diagram For Event Registration For Admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

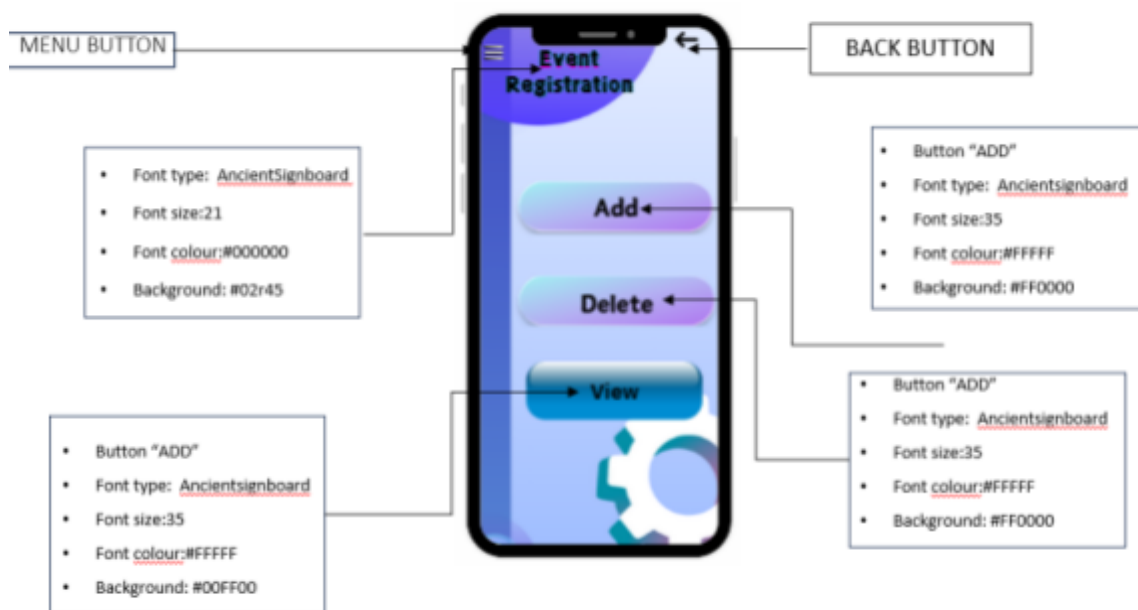


Diagram 3.57 : Description for screen Event Registration main menu for META student and admin

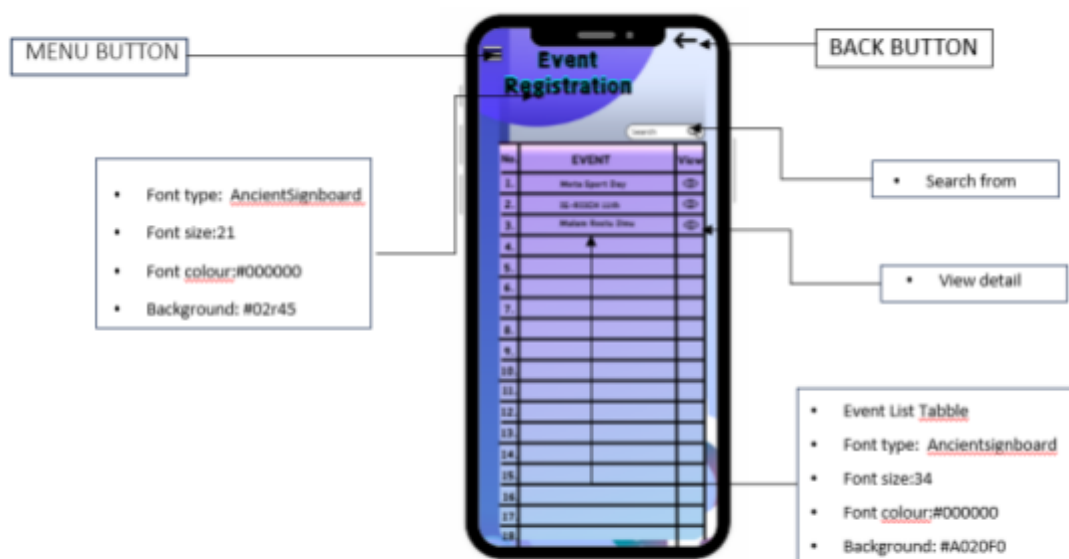


Diagram 3.58 : Description for screen view detail about event for META student and admin

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	<b>META EVENT APPLICATION</b>	<b>3.0</b>

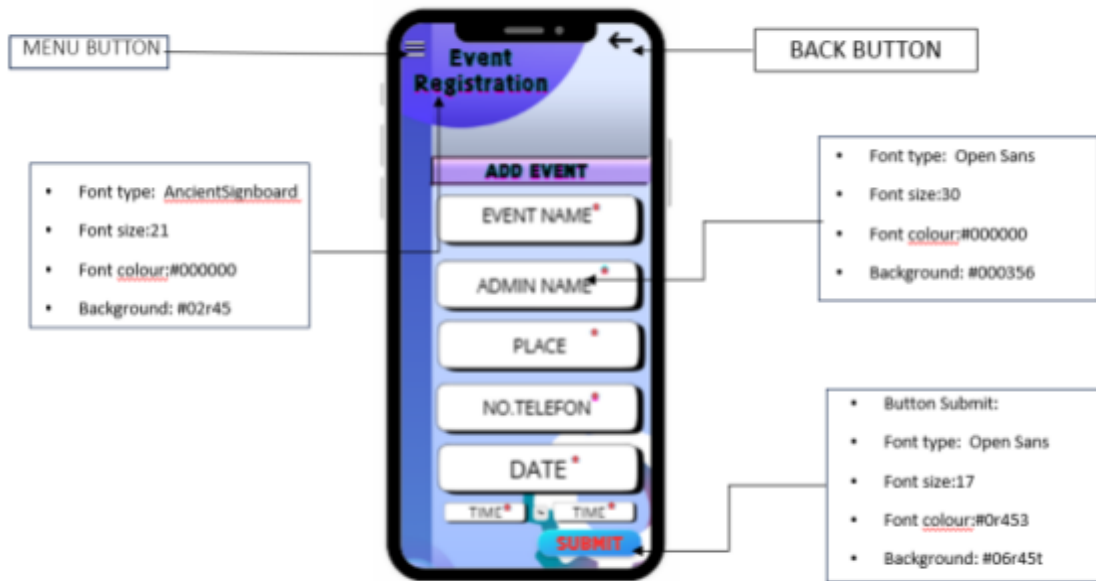


Diagram 3.59 : Description for screen Add event details for META student and admin

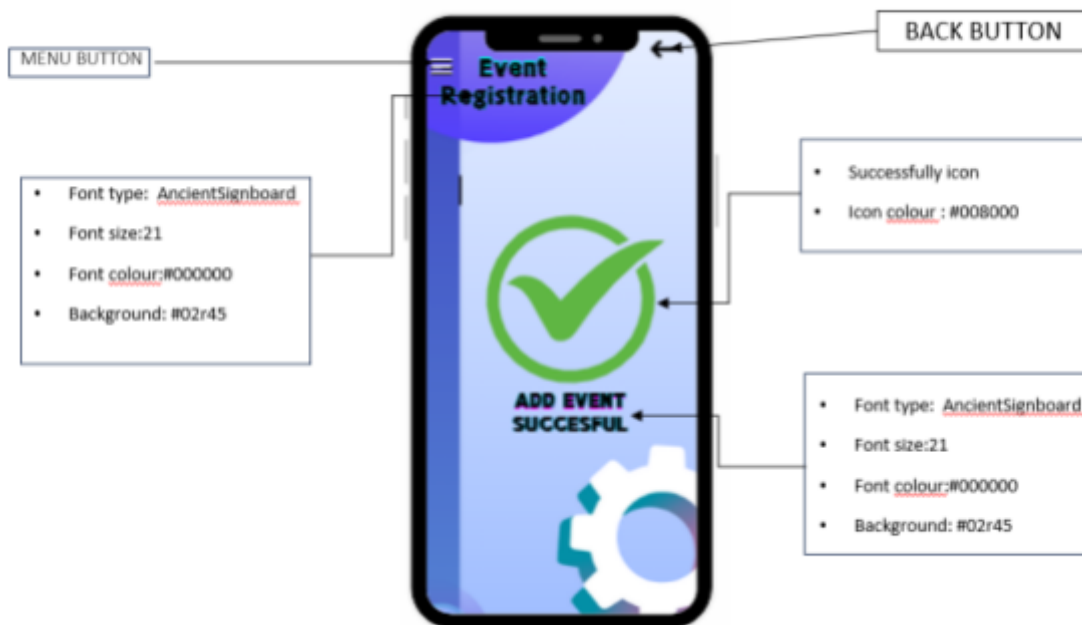


Diagram 3.60 : Description for screen Icon add event successful for META student and admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

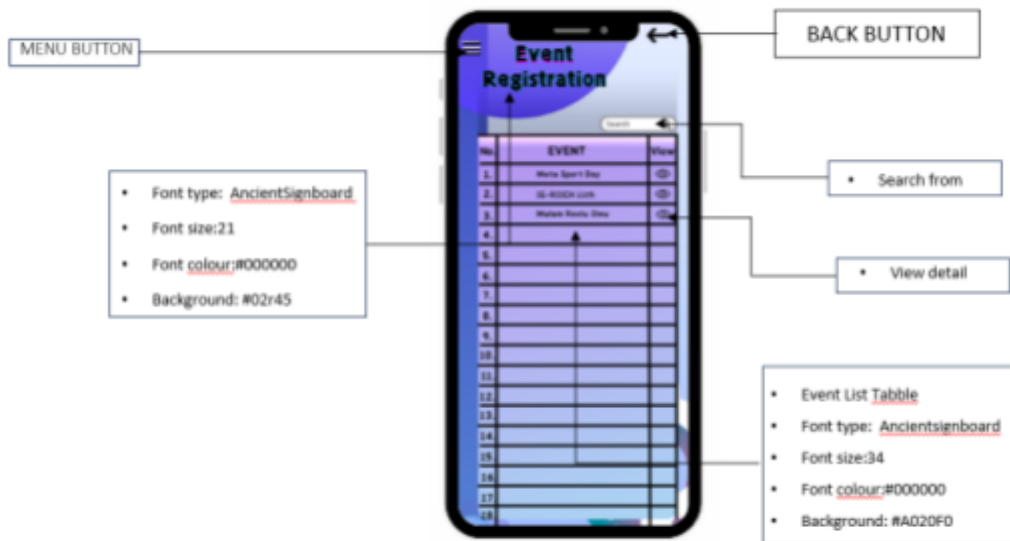


Diagram 3.61 : Description for screen view delete event for META student and admin



Diagram 3.62 : Description for screen detail event about be delete for META student and admin

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

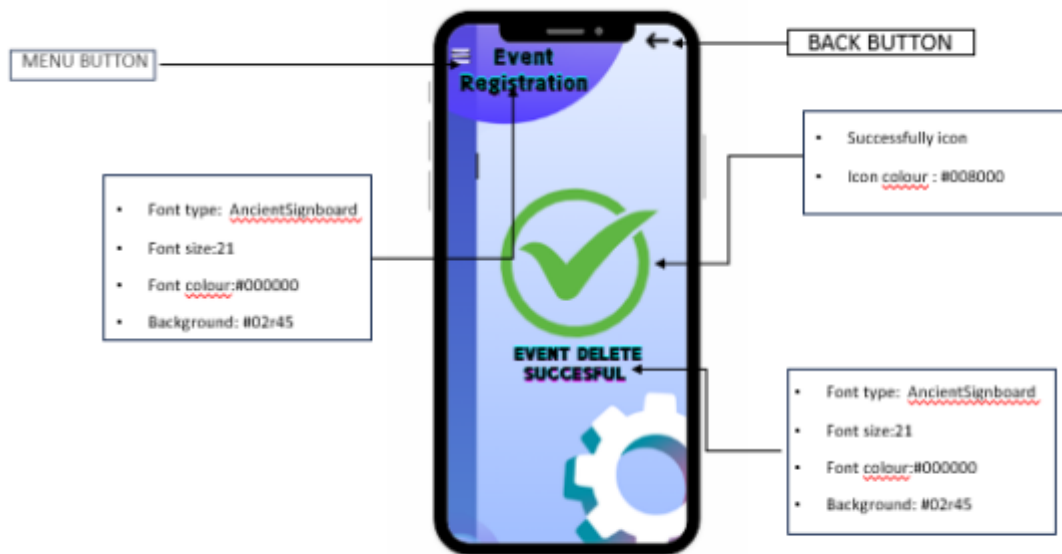




Diagram 3.63 : Description for screen champ point management main menu for student

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.3 Functional Requirements

FR_ID	Functional Requirements
FR001	Sign Up
FR002	Log In
FR003	Forgot Password
FR004	Review Paperwork
FR005	Submit Paperwork
FR006	Verify Paperwork
FR007	Add Committee Member
FR008	Delete Committee Member
FR009	View Event Committee
FR010	View Venue Booking
FR011	Register Venue Booking
FR012	Verify Venue Booking Application
FR013	View Champ Point
FR014	Add Champ Point
FR015	Delete Champ Point
FR016	View All Event
FR017	Add Event
FR018	Delete Event

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0

### 3.4 Use Cases

#### 3.4.1 Use Case Diagram

##### 3.4.1.1 Top Level Use Case Diagram (GOH QUO TENG)

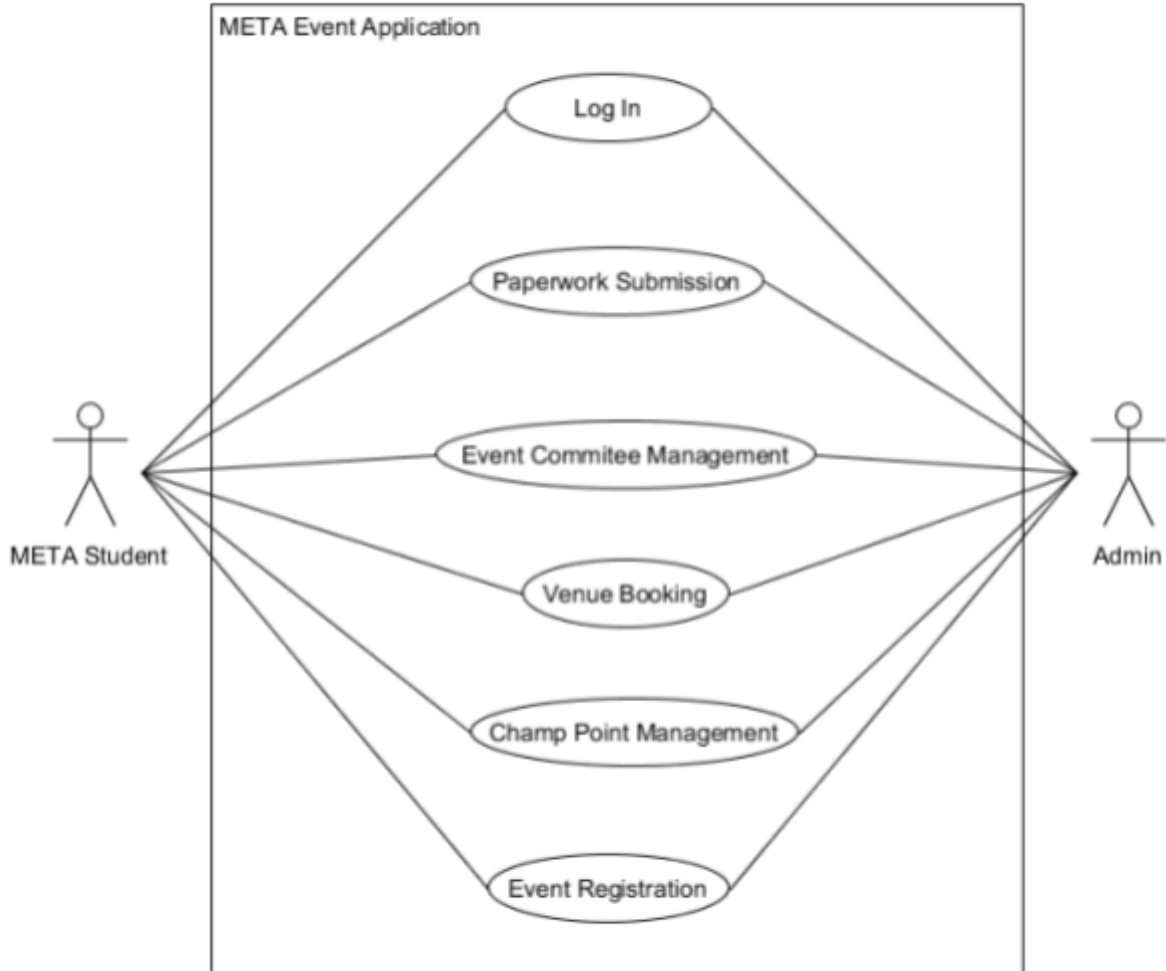



Figure 3.1 : A top level use case diagram for META Event Application

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

**3.4.1.2 Use Case Diagram For Login Function  
(MUHAMAD DANISH HAKIMI BIN ALI)**

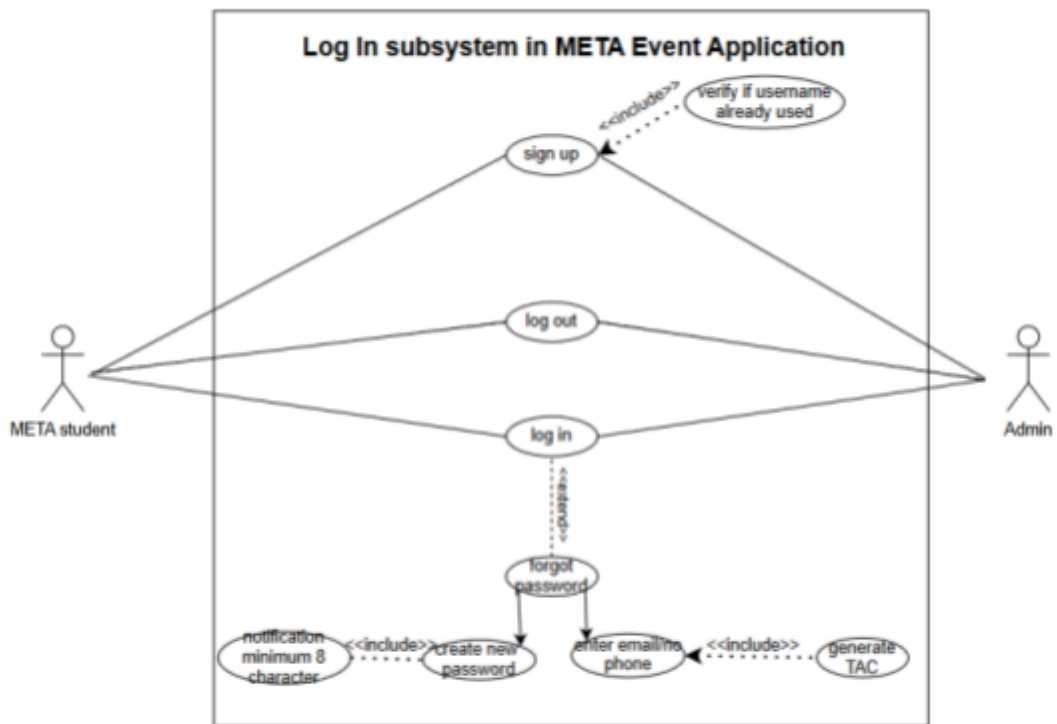



Figure 3.2 : A use case diagram for Login, Sign in and log out subsystem in META Event Application

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.4.1.3 Use Case Diagram For Paperwork Submission (PRISHA A/P GUNASEGARAN)

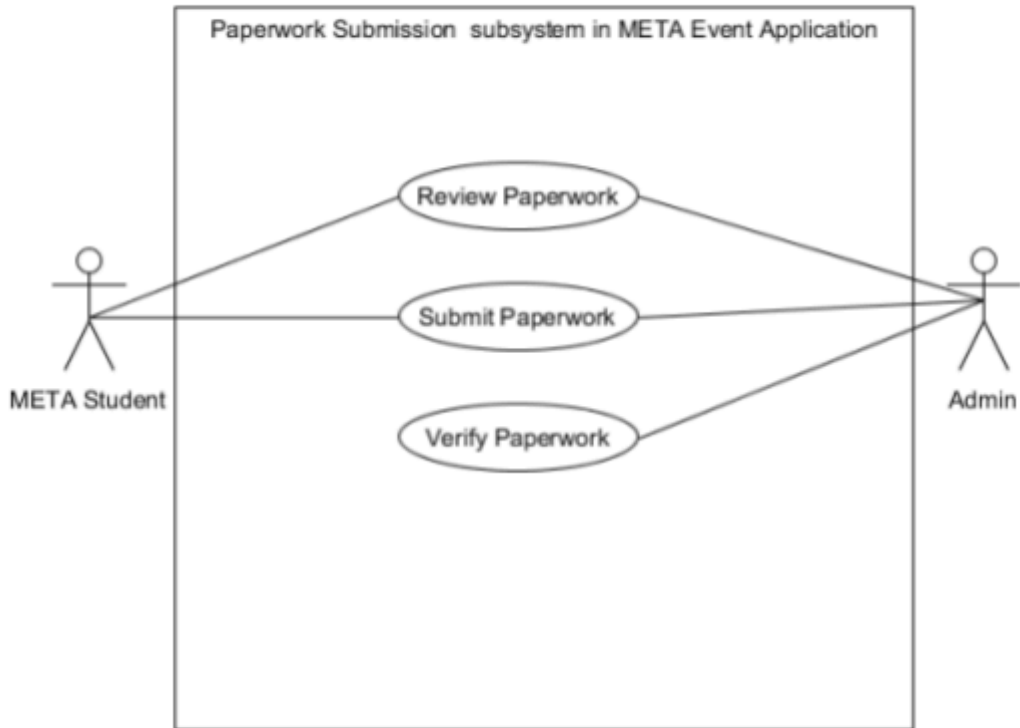



Figure 3.3 : A use case diagram for Paperwork Submission subsystem in META Event Application

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.4.1.4 Use Case Diagram For Event Committee Management (SHI KAI YAN)

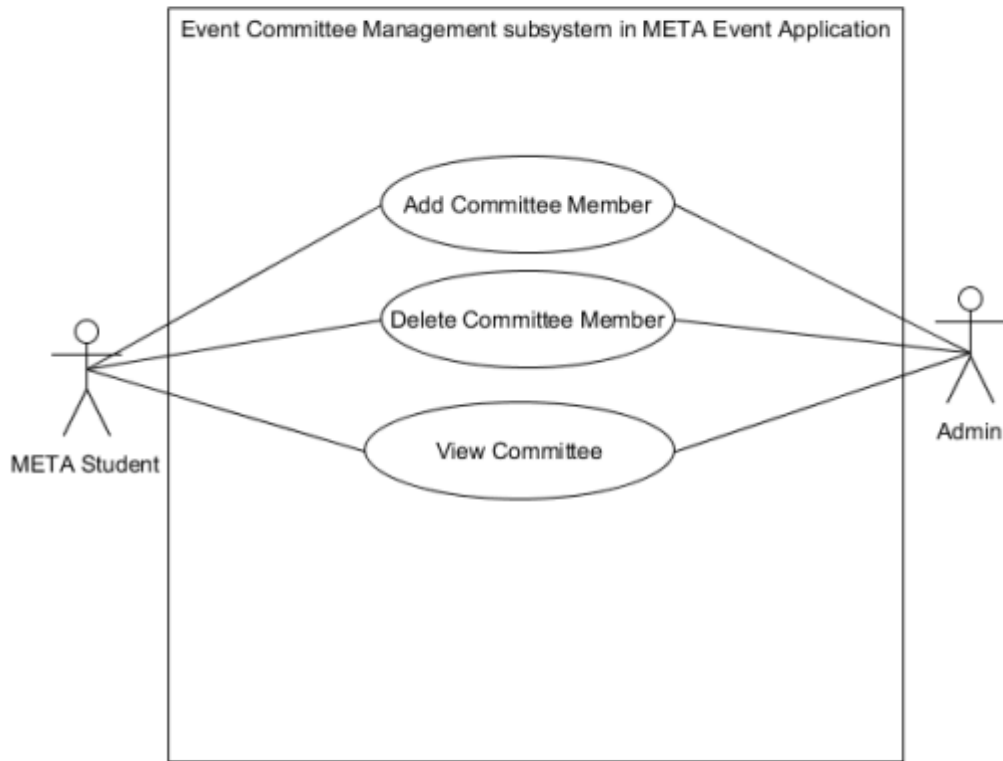



Figure 3.4 : A use case diagram for Event Committee Management subsystem in META Event Application

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.4.1.5 Use Case Diagram For Venue Booking (WONG CHUN LIANG)

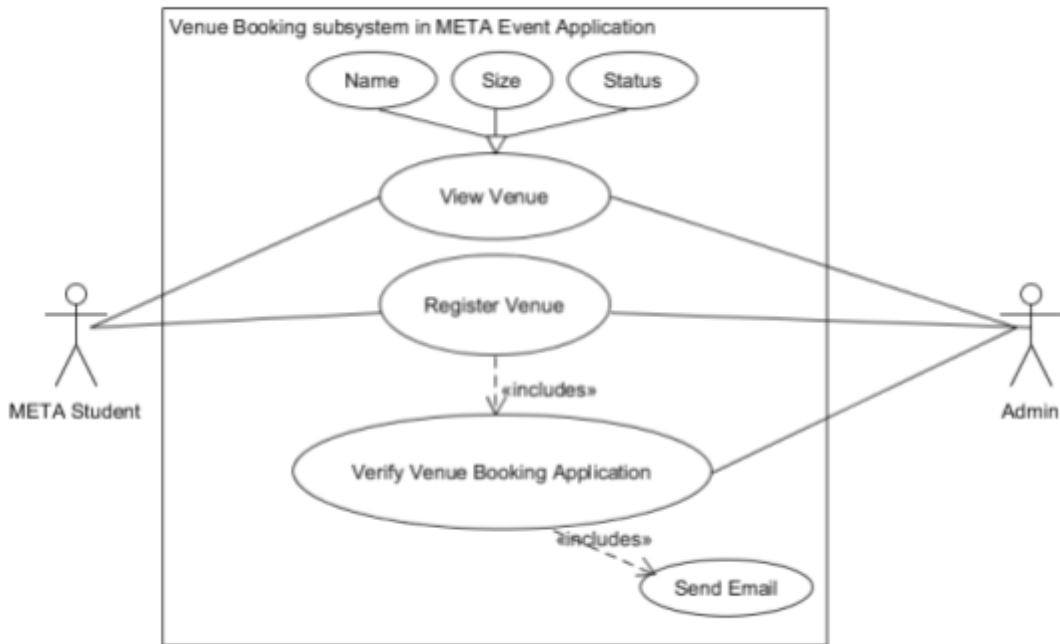


Figure 3.5 : A use case diagram for Venue Booking Subsystem in META Event Application

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.4.1.6 Use Case Diagram For Champ Point Management (GOH QUO TENG)

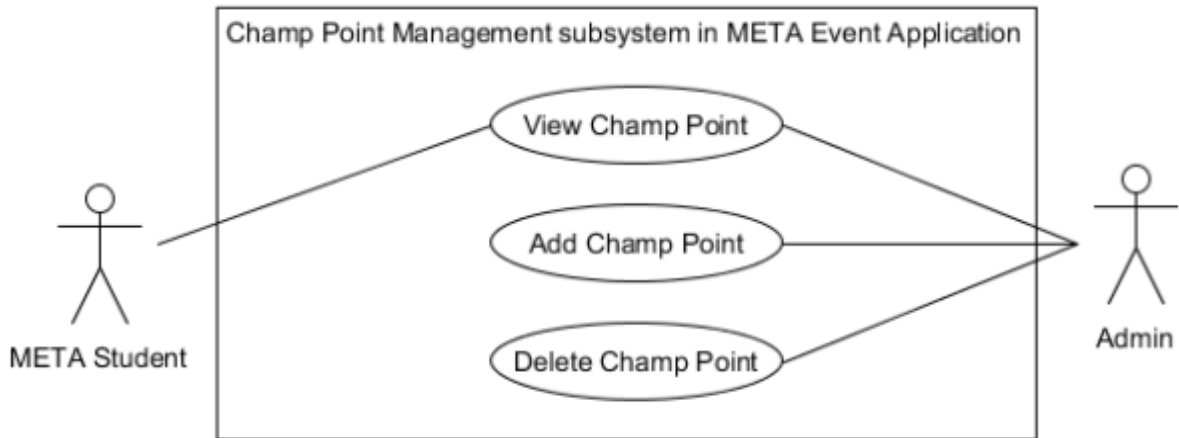


Figure 3.6 : A use case diagram for Champ Point Management subsystem in META Event Application

### 3.4.1.7 Use Case Diagram For Event Registration (GOH QUO TENG)

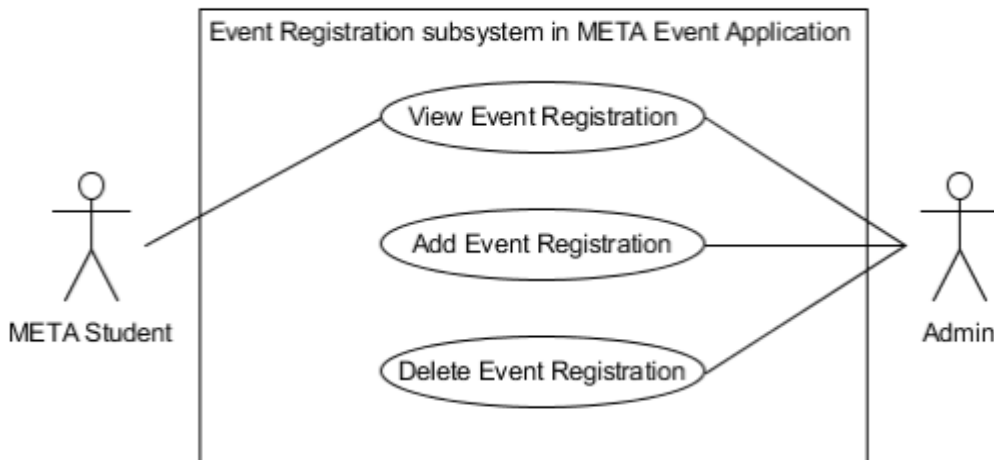




Figure 3.7 : A use case diagram for event registration subsystem in META Event Application

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

### 3.4.2. Use Case Descriptions

#### 3.4.2.1 Use Case Descriptions For Login Page (MUHAMAD DANISH HAKIMI BIN ALI)

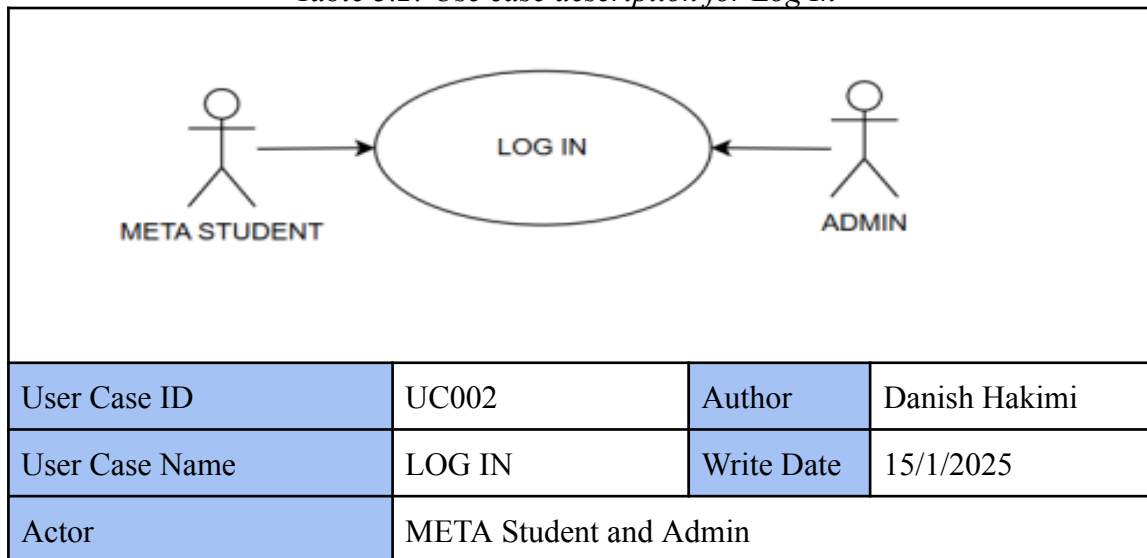
Table 3.1: Use case description for Sign up


 <p>The diagram shows a central oval labeled 'SIGN UP'. Two stick figures, labeled 'META STUDENT' and 'ADMIN', have arrows pointing towards the oval, indicating that both user types can interact with this use case.</p>			
User Case ID	UC 001	Author	Danish Hakimi
User Case Name	SIGN UP	Write Date	15/1/2025
Actor	META Student and Admin		
Description	1. A function for META student and admin to sign in the application		
Pre-condition	1. The user must have internet		
Basic Steps	<ol style="list-style-type: none"> <li>1. User must open the app</li> <li>2. enter the email/no phone</li> <li>3. create username</li> <li>4. create password</li> </ol>		
Alternate Steps	<ol style="list-style-type: none"> <li>1. if the password not 8 character the notification will pop up</li> <li>2. Notification "already used" will pop up if the username already have a owner</li> </ol>		
Exception	<ol style="list-style-type: none"> <li>1. The user's account has been disabled by an administrator. Display a message: "Your account has been disabled. Please contact support for assistance."</li> <li>2. if the password is not strong enough the user must have key in the new one</li> </ol>		

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0


	<ol style="list-style-type: none"> <li>The authentication server is down or experiencing issues. Display a message: "Unable to connect to the server. Please try again later."</li> </ol>
Post Condition	<ol style="list-style-type: none"> <li>A verification email is sent to the user's registered email address containing a unique, time-sensitive link to confirm their account.</li> <li>The system displays a confirmation message informing the user that the account has been created successfully and that email verification (if required) is pending.</li> </ol>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>Must have internet access for META Event Application to work.[CR001]</li> <li>The user interface of the application Must be simple enough for users to understand and make use of its capabilities.[CR002]</li> <li>The system must prevent multiple accounts from being created with the same email address.[CR011]</li> </ol>

Table 3.2: Use case description for Log In



	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

Description	2. A function for META student and admin to log in the application
Pre-condition	1.must have account first
Basic Steps	1.open the app 2.enter the username that have been register 3.enter the password
Alternate Steps	if the password not 8 character the notification will pop up
Exception	<ol style="list-style-type: none"> <li>1. if user do not have the account,the user must have sign in first</li> <li>2. The user provides an incorrect email or password.Display an error message: <i>"Invalid email or password. Please try again."</i></li> <li>3. The user exceeds the maximum allowed failed login attempts (e.g., 5 attempts).Display an error message: <i>"Your account has been locked due to multiple failed login attempts. Please try again after 15 minutes."</i></li> <li>4. The login request fails due to server downtime, network issues, or other technical problems.Display a generic error message: <i>"We are experiencing technical difficulties. Please try again later."</i></li> </ol>
Post Condition	<ol style="list-style-type: none"> <li>1. The user is successfully authenticated and granted access to the application.</li> <li>2. If authentication fails (e.g., incorrect password, unregistered email), the system logs the failed login attempt and displays an appropriate error message to the user without revealing sensitive information.</li> <li>3. If the account is locked due to multiple failed attempts, the system informs the user of the lockout period and provides instructions for resetting the password.</li> </ol>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. Must have internet access for META Event Application to work.[CR001]</li> <li>2. The user interface of the application Must be</li> </ol>

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0


	<p>simple enough for users to understand and make use of its capabilities.[CR002]</p> <p>3. Users should be temporarily locked out after 5 consecutive failed login attempts for 15 minutes to prevent brute force attacks.[CR010]</p>
--	--

Table 3.3: Use case description for Forgot Password

<pre> graph LR     MS[META STUDENT] --&gt; UC((FORGOT PASSWORD))     AD[ADMIN] --&gt; UC   </pre>			
User Case ID	UC003	Author	Danish Hakimi
User Case Name	FORGOT PASSWORD	Write Date	15/1/2025
Actor	META Student and Admin		
Description	3. A function for META student and admin to create new password if forgot it.		
Pre-condition	must have the account and email or no phone have been register		
Basic Steps	1.open the app 2.click the forgot password button 3.enter the email or no phone than have been register 4. System will generate TAC		
Alternate Steps	if the password not 8 character the notification will pop up		
Exception	1. if the enter password is not strong enough the system will pop notification to key in the new password 2. Email delivery fails (e.g., invalid email address or		


	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0


	<p>mail server issue).Display an error message: <i>"There was an issue sending the reset email. Please try again later."</i></p> <p>3. User enters mismatched passwords during the reset process.Display an error message: <i>"The passwords do not match. Please re-enter and try again."</i></p>
Post Condition	<ol style="list-style-type: none"> <li>1. The user has successfully set a new password.</li> <li>2. The system sends a confirmation email or notification to the user indicating that their password has been successfully reset.</li> <li>3. If multiple failed reset attempts occur (e.g., token tampering or brute force), the user's account may be temporarily locked, and an alert is sent.</li> </ol>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. Must have internet access for META Event Application to work.[CR001]</li> <li>2. The user interface of the application Must be simple enough for users to understand and make use of its capabilities.[CR002]</li> <li>3. The system must allow users to request a password reset by entering their registered email address.[CR012]</li> </ol>

	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0

**3.4.2.2 Use Case Descriptions For Paperwork Submission  
(PRISHA A/P GUNASEGARAN)**

*Table 3.4: Use case description for Review Paperwork*

 <p>The diagram shows two actors, 'META Student' and 'Admin', connected to a central use case labeled 'Review Paperwork'.</p>			
User Case ID	UC004	Author	Prisha A/P Gunasegaran
User Case Name	Review Paperwork	Write Date	15/1/2025
Pre-condition	<ol style="list-style-type: none"> <li>1. The user (META student or admin) must be successfully logged into the application.</li> <li>2. The paperwork must be submitted in application to be viewed.</li> <li>3. Both students and admin can review the paperwork.</li> </ol>		
Basic Steps	<p>META Students and Admin:</p> <ol style="list-style-type: none"> <li>1. META students login into the application.</li> <li>2. The app displays the main menu.</li> <li>3. META Students click on “Upload Paperwork”.</li> <li>4. META Students click on “Review” button.</li> <li>5. The app displays the paperwork submitted.</li> </ol>		
Alternate	N/A		
Exception	If a user attempts to upload a file in an unsupported format the system will reject.		
Post Condition	<ol style="list-style-type: none"> <li>1. The submitted paperwork will be stored in the system's database for further review.</li> <li>2. The status of the paperwork submission will be updated to "Successfully Submitted" for students.</li> </ol>		

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
	META EVENT APPLICATION	3.0

Business Validation/ Rules (constraints)	<p>CR001: Internet Access</p> <p>The system requires a stable internet connection for all functions, including login, file uploads, and reviewing submissions.</p> <p>CR002: User-Friendly Interface</p> <p>The application’s design must prioritize simplicity to ensure all users, regardless of technical proficiency, can navigate it effectively.</p> <p>CR003: Role-Based Access Control</p> <p>The system must differentiate between user roles, strictly enforcing access permissions for META students and admins.</p> <p>CR004: File Format Validation</p> <p>Uploaded documents must be in supported formats, including PDF,DOCX, and JPEG.</p> <p>CR005: File Size Validation</p> <p>Uploaded files must not exceed the maximum size limit of 10MB.</p> <p>CR006: Scalability and Performance</p> <p>The application must accommodate an increasing number of users and submissions without significant performance degradation.</p>
--	--


	<b>DOCUMENT IDENTIFICATION</b>	
	<b>APPLICATION NAME</b>	<b>VERSION</b>
	META EVENT APPLICATION	3.0

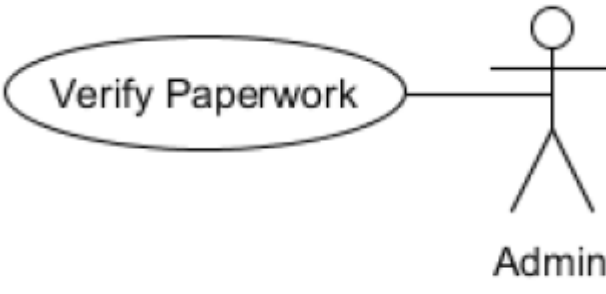
Table 3.5: Use case description for Submit Paperwork

<pre> graph LR     Student((META Student)) --- UC([Submit Paperwork])     Admin((Admin)) --- UC             </pre>			
User Case ID	UC005	Author	Prisha A/P Gunasegaran
User Case Name	Submit Paperwork	Write Date	15/1/2025
Pre-condition	<ol style="list-style-type: none"> <li>1. The user (META Student or Admin) must be registered and have valid credentials to access the system.</li> <li>2. The user must be successfully logged into the META Event Application.</li> <li>3. The paperwork to be submitted must must be the correct file format and size constraints.</li> </ol>		
Basic Steps	<p>META Students and Admin:</p> <ol style="list-style-type: none"> <li>1. META Student logs into the META Event Application.</li> <li>2. META Student clicks to the "Submit Paperwork" section.</li> <li>3. META Student clicks the "Submit" button.</li> <li>4. META Student select a file for upload.</li> <li>5. META Student clicks "Submit" to upload the file.</li> <li>6. The system shows successfully submitted.</li> </ol>		
Alternate	N/A		
Exception	If the uploaded file is not in a supported format, the system will reject it and prompt the user to upload a file in PDF, DOCX, or JPEG format.		
Business Validation/ Rules (constraints)	<ol style="list-style-type: none"> <li>1. Internet Access (CR001): The META Event Application requires a stable internet connection to function. Submissions cannot be made offline.</li> <li>2. File Format Validation (CR004): The uploaded file must be in one of the supported formats: PDF, DOCX, or JPEG. Files</li> </ol>		

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	<p>in other formats will be rejected.</p> <p>3. File Size Limitation (CR005): The uploaded file must not exceed the size limit of 10MB. Larger files will be rejected by the system.</p>
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Table 3.6: Use case description for Verify Paperwork

 <p>The diagram shows a use case labeled "Verify Paperwork" in an oval, connected by a line to an actor labeled "Admin".</p>			
User Case ID	UC006	Author	Prisha A/P Gunasegaran
User Case Name	Verify Paperwork	Write Date	15/1/2025
Pre-condition	<ol style="list-style-type: none"> <li>1. The admin successfully logged into the META Event Application.</li> <li>2. The paperwork submitted by META student must already exist in the system.</li> <li>3. The admin must have the necessary permissions to access and verify submitted paperwork.</li> </ol>		
Basic Steps	<ol style="list-style-type: none"> <li>1. The admin logs into the META Event Application.</li> <li>2. The admin clicks "Verify".</li> <li>3. The system displays submitted paperwork.</li> <li>4. The admin selects paperwork submission from the list.</li> <li>5. The admin reviews the paperwork details and</li> </ol>		

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	<p>attached file.</p> <ol style="list-style-type: none"> <li>6. The admin chooses one of the following options: <ul style="list-style-type: none"> <li>● Approve the paperwork.</li> <li>● Reject the paperwork</li> </ul> </li> <li>7. The system updates the status of the paperwork "Approved" or "Rejected".</li> </ol>
Alternate	N/A
Exception	If the file format is corrupted or inaccessible, the system will notify the admin and log the issue.
Post Condition	The status of the paperwork is updated to "Approved" or "Rejected" in the system.
Business Validation/ Rules (constraints)	<ol style="list-style-type: none"> <li>1. Role-based Access (CR003): Only admins can access and perform the verification process.</li> <li>2. File Integrity (CR004): The submitted paperwork must be in a valid and accessible format (e.g., PDF, DOCX, JPEG).</li> </ol>

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### 3.4.2.3 Use Case Descriptions For Event Committee Management (SHI KAI YAN)


Table 3.7: Use case description for Add Committee Member


User Case ID	UC007	Author	Shi Kai Yan
<p>The diagram shows a central use case labeled 'Add Committee Member' in an oval. It is connected by lines to two actors: 'META Student' on the left and 'Admin' on the right.</p>			
User Case Name	Add Committee Member	Write Date	13/1/2025
Actor	META Student and Admin		
Description	A function that allows META students and Admins to add new members to the event committee.		
Pre-condition	The user must be authenticated and have permissions to add members.		
Basic Steps	<ol style="list-style-type: none"> <li>1. The user logs into the app.</li> <li>2. Navigate to the "Committee Management" section.</li> <li>3. Select "Add Member", enter the details, and confirm.</li> </ol>		
Alternate Steps	If the user provides incomplete details, the system prompts to complete the required fields.		
Exception	If the system fails to process the request, an error message is displayed.		
Post Condition	<ol style="list-style-type: none"> <li>1. The new member information is successfully saved to the committee member list and can be retrieved through the view feature.</li> <li>2. The system logs the time, operator, and details of the newly added member.</li> </ol>		

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	3. The database updates the committee status to reflect the latest member list.
Business Validation / Rules (constraints)	<p>1. Must have internet access to use the Add Committee Member function. [CR001]</p> <p>2. The user interface must be simple and intuitive enough for users to add members without confusion. [CR002]</p> <p>3. Users cannot add members without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators only). [CR003]</p>

Table 3.8: Use case description for Delete Committee Member

 <p>The diagram shows two actors, 'META Student' and 'Admin', connected to a central use case labeled 'Delete Committee Member'.</p>			
User Case ID	UC008	Author	Shi Kai Yan
User Case Name	Delete Committee Member	Write Date	13/1/2025
Actor	META Student and Admin		
Description	A function that allows META students and Admins to remove existing members from the event committee.		
Pre-condition	The user must be authenticated and have permissions to delete members.		

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Basic Steps	<ol style="list-style-type: none"> <li>1. The user logs into the app.</li> <li>2. Navigate to the "Committee Management" section.</li> <li>3. Select "Delete Member", choose the member to remove, and confirm</li> </ol>
Alternate Steps	If the selected member cannot be found, the system displays a "Member Not Found" message.
Exception	If the system fails to process the deletion, an error message is displayed.
Post Condition	<ol style="list-style-type: none"> <li>1. The selected member information is successfully removed from the committee member list.</li> <li>2. The system records the time of the deletion operation, the operator, and the information of the removed member.</li> </ol>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. Must have internet access to use the Delete Committee Member function. [CR001]</li> <li>2. Users cannot delete members without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators only). [CR003]</li> <li>3. Deletion actions require double confirmation to prevent accidental removal of members. [CR005]</li> <li>4. The system must ensure that members assigned to ongoing tasks cannot be deleted until their roles are reassigned. [CR008]</li> </ol>




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Table 3.9: Use case description for View Committee

User Case ID	UC009	Author	Shi Kai Yan
User Case Name	View Committee	Write Date	13/1/2025
 <pre> graph LR     A[Stick Figure] --- UC((View Committee))     B[Stick Figure] --- UC     subgraph Actors         A --- AS[ META Student ]         B --- BS[ Admin ]     end         </pre>			
Actor	META Student and Admin		
Description	A function that allows META students and Admins to view the current list of committee members.		
Pre-condition	The user must be authenticated to access the committee details.		
Basic Steps	<ol style="list-style-type: none"> <li>1. The user logs into the app.</li> <li>2. Navigate to the "Committee Management" section.</li> <li>3. Click "View Committee" to display the list of members.</li> </ol>		
Alternate Steps	If no committee members exist, the system displays a "No Members Found" message.		
Exception	If there is a server error, the system displays an error message and allows retrying.		
Post Condition	<ol style="list-style-type: none"> <li>1. The system successfully displays the list of committee members, including each member's name, role and other details.</li> <li>2. The data is retrieved from the latest database in real time and presented to the user.</li> </ol>		
Business Validation / Rules (constraints)	1. Must have internet access to use the View Committee function.		

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	<p>[CR001]</p> <p>2.The user interface must be simple enough for users to navigate and retrieve committee member information. [CR002]</p> <p>3.The application should display real-time updates of the committee member list. [CR007]</p> <p>4.Sensitive information, such as contact details, must only be accessible to authorized users. [CR009]</p>
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### 3.4.2.4 Use Case Descriptions For Venue Booking (WONG CHUN LIANG)

Table 3.10: Use case description for View Venue

<p>The diagram shows a central use case 'View Venue' connected to two actors: 'META Student' and 'Admin'. Three data objects, 'Name', 'Size', and 'Status', are connected to the 'View Venue' use case, indicating the data returned by this use case.</p>			
User Case ID	UC010	Author	Wong Chun Liang
User Case Name	View Venue	Write Date	13/1/2025
Actor	META Student And Admin		
Description	This use case allows both META students and Admin to view the name of the venue, the status of a venue (whether it's available for booking or not) and the size (number of seats) of the venue.		
Pre-condition	<ol style="list-style-type: none"> <li>1. The actor (META student or Admin) is logged into the system.</li> <li>2. The system has venue booking data available.</li> </ol>		
Basic Steps	<p><b>For META Student:</b></p> <ol style="list-style-type: none"> <li>1. The META student logs into the system.</li> <li>2. The app displays the main menu.</li> <li>3. META students click on the “View Venue” button .</li> <li>4. META students can click the button of “KSAJS” or “KSAS” to view the venue of the selected campus.</li> <li>5. The app displays a list of available venues, along with their current status (whether it's available for booking or not) and size (number of seats).</li> <li>6. The META student can go back to the menu to click the “Log Out”</li> </ol>		

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	<p>button to log out.</p> <p><b>For Admin:</b></p> <ol style="list-style-type: none"> <li>1. Admin logs into the system.</li> <li>2. The app displays the main menu.</li> <li>3. Admin click on the “View Venue” button .</li> <li>4. Admin can click the button of “KSAJS” or “KSAS” to view the venue of the selected campus.</li> <li>5. The app displays a list of available venues, along with their current status (whether it's available for booking or not) and size (number of seats).</li> <li>6. Admin can go back to the menu to click the “Log Out” button to log out.</li> </ol>
Alternate Steps	N/A
Exception	The application encounters an error while retrieving venue status or size.
Post Condition	<ol style="list-style-type: none"> <li>1. META students can view the availability and size of the venue they are interested in booking.</li> <li>2. Admin can view the availability and size of all venues, including those that are already booked or available for booking.</li> </ol>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. Must have internet access for META Event Application to work.[CR001]</li> <li>2. The user interface of the application must be simple enough for users to understand and make use of its capabilities.[CR002]</li> <li>3. Users cannot access the platform without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators versus students).[CR003]</li> <li>4. The application should display real-time updates on venue availability. [CR007]</li> </ol>




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Table 3.11: Use case description for Register Venue

 <p>The diagram shows two actors, 'META Student' and 'Admin', connected by a line to a central use case labeled 'Register Venue'.</p>			
User Case ID	UC011	Author	Wong Chun Liang
User Case Name	Register Venue	Write Date	13/1/2025
Actor	META Student And Admin		
Description	This use case allows META students to request a venue booking by specifying their preferred location and times.		
Pre-condition	<ol style="list-style-type: none"> <li>1. The actor (META student or Admin) is logged into the system.</li> <li>2. META students and Admin have access to the venue booking request feature.</li> </ol>		
Basic Steps	<p><b>For META Student:</b></p> <ol style="list-style-type: none"> <li>1. The META student logs into the system.</li> <li>2. The app displays the main menu.</li> <li>3. META students click on the “Register Venue” button .</li> <li>4. META students can click the button of “KSAJS” or “KSAS” to view the venue of the selected campus.</li> <li>5. The app displays a list of venues</li> <li>6. META Students can click the Click Here button which is next to the wanted venue to continue the process.</li> <li>7. META Students are required to fill in the necessary information such as event name, name, no. matric, no.telefon, time.</li> <li>8. The app displays a notice which is successfully submitted.</li> <li>9. The META student can go back to the menu to click the “Log Out” button to log out.</li> </ol> <p><b>For Admin:</b></p> <ol style="list-style-type: none"> <li>1. Admin logs into the system.</li> <li>2. The app displays the main menu.</li> </ol>		

 <p>The logo features a blue and purple design with a computer monitor, gears, and the text 'UPSI.F.K.M.T' and 'META EVENT'.</p>	DOCUMENT IDENTIFICATION	
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	<ol style="list-style-type: none"> <li>3. Admin click on the “Register Venue” button .</li> <li>4. Admin can click the button of “KSAJS” or “KSAS” to view the venue of the selected campus.</li> <li>5. The app displays a list of venues</li> <li>6. Admin can click the Click Here button which next to the wanted venue to continue the process.</li> <li>7. Admin required to fill in the necessary information such as event name, name, no. matric, no.telefon, time.</li> <li>8. The app displays a notice which is successfully submitted.</li> <li>9. Admin can go back to the menu to click the “Log Out” button to log out.</li> </ol>
Alternate Steps	N/A
Exception	The application encounters an error while submitting.(e.g., technical issue).
Post Condition	META students will have submitted a venue booking request, which will be pending Admin approval.
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. Must have internet access for META Event Application to work.[CR001]</li> <li>2. The user interface of the application must be simple enough for users to understand and make use of its capabilities.[CR002]</li> <li>3. Users cannot access the platform without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators versus students).[CR003]</li> <li>4. The application should display real-time updates on venue availability. [CR007]</li> </ol>



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Table 3.12: Use case description for Verify Venue Booking Application

User Case ID	UC012	Author	Wong Chun Liang
User Case Name	Verify Venue Booking Application	Write Date	13/1/2025
Actor	Admin		
Description	This use case allows Admin to review and verify these booking requests.		
Pre-condition	<ol style="list-style-type: none"> <li>1. Admin is logged into the system.</li> <li>2. There are pending venue booking requests submitted by META students for review.</li> <li>3. Admin has permissions to approve or reject venue booking application.</li> <li>4. Admin has access to view all submitted venue booking requests and relevant booking information.</li> </ol>		
Basic Steps	<ol style="list-style-type: none"> <li>1. Admin logs into the system.</li> <li>2. The app displays the main menu.</li> <li>3. Admin click on the "Verify Venue Booking Application" button .</li> <li>4. The app displays a list of venues booking applications.</li> <li>10. Admin can click the "Click Here" button which next to the wanted approved or rejected venue to continue the process.</li> <li>11. Admin views the necessary information such as event name, name, no. matric, no.telefon, time.</li> <li>12. Admin can click the "Approve" or "Reject" button to approve or reject the venue booking application.</li> <li>13. The app displays the notice which is "Approve" or "Reject", and sends an email to notify the student.</li> <li>14. The app displays the asking which admin wants or not to continue</li> </ol>		

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	<p>other venue booking applications.</p> <p>15. Admin click "Yes" or "No" to decide to continue other venue booking applications or no</p> <p>16. Admin can go back to the menu to click the “Log Out” button to log out.</p>
Alternate Steps	N/A
Exception	The system encounters an error while system failure approves or denies the request (e.g., server error).
Post Condition	The venue booking request is either approved or denied.
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. Must have internet access for META Event Application to work.[CR001]</li> <li>2. The user interface of the application must be simple enough for users to understand and make use of its capabilities.[CR002]</li> <li>3. Users cannot access the platform without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators versus students).[CR003]</li> <li>4. The system should display real-time updates on venue availability. [CR007]</li> <li>5. The system must ensure that no double-booking occurs and that venues are available for the requested date and time. [CR008]</li> </ol>

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### 3.4.2.5 Use Case Descriptions For Champ Point Management (GOH QUO TENG)

Table 3.13: Use case description for view Champ Pointds

User Case ID	UC013	Author	Goh Quo Teng
<pre> graph LR     META Student --- UC((View Champ Point))     Admin --- UC     </pre>			
User Case Name	View Champ Point	Write Date	12/1/2025
Actor	META Student and Admin		
Description	<ol style="list-style-type: none"> <li>1. A function for META students to view and check the champ points and total champ points they have obtained by participating in events.</li> <li>2. A function for admin to view all META student’s champ points.</li> </ol>		
Pre-condition	<ol style="list-style-type: none"> <li>1. The user (META student or admin) must be successfully logged into the application using valid credentials.</li> <li>2. The champ point data must be pre-existing in the system, either added by the admin or accumulated based on user participation and contributions.</li> <li>3. META students can only view their own total champ points.</li> <li>4. Admins can view champ points for all META students.</li> </ol>		
Basic Steps	<p>META Students:</p> <ol style="list-style-type: none"> <li>1. META students login into the application.</li> <li>2. The app displays the main menu.</li> <li>3. META students click on “Champ Point Management”.</li> <li>4. META students click on the “View” button.</li> <li>5. The app displays all the events that students have participated in and the champ point they have received for participating in the events.</li> </ol> <p>Admin:</p> <ol style="list-style-type: none"> <li>1. Admin login into the application.</li> <li>2. The app displays the main menu.</li> <li>3. Admin click on “Champ Point Management”.</li> </ol>		

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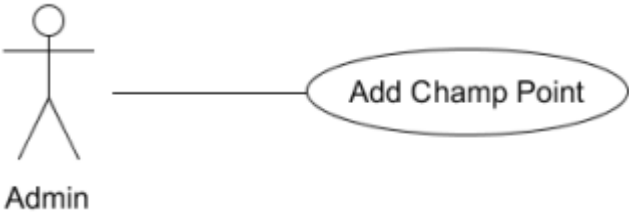
	<ol style="list-style-type: none"> <li>4. Admin click on the “View” button.</li> <li>5. The app displays the student list.</li> <li>6. Admin click on one student.</li> <li>7. The app displays all the events and champ points.</li> </ol>
Alternate Steps	N/A
Exception	<ol style="list-style-type: none"> <li>1. Invalid or Expired User Session <ul style="list-style-type: none"> <li>- Cause: The user’s session has expired or is invalid due to logging in from multiple devices.</li> <li>- System Response: Display an error message.</li> <li>- Resolution: Redirect the user to the login page.</li> </ul> </li> <li>2. Data Retrieval Failure <ul style="list-style-type: none"> <li>- Cause: The system encounters a database issue or an error retrieving champ point records.</li> <li>- System Response: Show a notification.</li> <li>- Resolution: Log the error for administrative review and allow the user to retry.</li> </ul> </li> <li>3. No Champ Points Available <ul style="list-style-type: none"> <li>- Cause: The user has no champ points recorded in the system.</li> <li>- System Response: Inform the user.</li> <li>- Resolution: Allow the user to navigate to other sections or provide instructions for earning champ points.</li> </ul> </li> <li>4. System Connectivity Issues <ul style="list-style-type: none"> <li>- Cause: Loss of internet connection or inability to communicate with the server.</li> <li>- System Response: Display an error message.</li> <li>- Resolution: Allow the user to retry once connectivity is restored.</li> </ul> </li> </ol>
Post Condition	<p>For META Students:</p> <ul style="list-style-type: none"> <li>- The system displays the student's total champ points in an organized format (e.g., a list, chart, or summary).</li> <li>- The student is informed of their updated champ point status,</li> </ul>

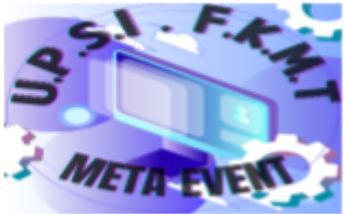
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	<p>if applicable.</p> <p>For Admins:</p> <ul style="list-style-type: none"> <li>- The system displays a detailed view of all students' champ points, allowing admins to review or analyze the data.</li> </ul> <p>Logging and Monitoring:</p> <ul style="list-style-type: none"> <li>- The system logs the access attempt to the champ point data for audit purposes.</li> </ul> <p>If the function fails due to an error or exception:</p> <ul style="list-style-type: none"> <li>- An appropriate error message or notification is displayed to the user (e.g., "No champ points available" or "Data retrieval failed").</li> <li>- The system remains in a secure and stable state, ready to retry or handle other operations.</li> </ul>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. META Event app users must have internet access for META Event Application to work. [CR001]</li> <li>2. Users cannot access the platform without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators versus students). [CR003]</li> <li>3. The application should support a growing number of META students, administrators, and events without performance degradation. [CR006]</li> <li>4. The application should display real-time updates on the view champ point page. [CR009]</li> </ol>


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Table 3.14: Use case description for Add Champ Point

			
User Case ID	UC014	Author	Goh Quo Teng
User Case Name	Add Champ Point	Write Date	12/1/2025
Actor	Admin		
Description	A function for admin to add the champ points for all META students participating in the event.		
Pre-condition	<ol style="list-style-type: none"> <li>1. User Authentication and Authorization <ul style="list-style-type: none"> <li>- The user must be logged into the application with valid credentials.</li> <li>- The user must have admin privileges, as only admins are allowed to add champ points.</li> </ul> </li> <li>2. Existing User Record <ul style="list-style-type: none"> <li>- The student to whom the champ points are being assigned must already exist in the system's database with a valid profile.</li> </ul> </li> <li>3. Champ Point Criteria <ul style="list-style-type: none"> <li>- The admin must have the required details, such as the number of points to be added and the reason or event associated with the points, as per the system's rules.</li> </ul> </li> <li>4. System Availability <ul style="list-style-type: none"> <li>- The database and server must be operational to process and store the added champ point data.</li> </ul> </li> </ol>		

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Basic Steps	<ol style="list-style-type: none"> <li>1. Admin login into the application.</li> <li>2. The app displays the main menu.</li> <li>3. Admin click on “Champ Point Management” .</li> <li>4. Admin click on the “View” button.</li> <li>5. The app displays the events list.</li> <li>6. Admin click on one event.</li> <li>7. The app displays a list of participants in this event.</li> <li>8. Admin click on one participant.</li> <li>9. Admin key in the champ point.</li> <li>10. Admin confirms the operation.</li> </ol>
Alternate Steps	N/A
Exception	<ol style="list-style-type: none"> <li>1. If the admin attempts to add champ points to a student who does not exist in the database.</li> <li>2. If the admin inputs an invalid or non-numeric value for the champ points.</li> <li>3. If a user without administrative privileges attempts to access the Add Champ Point function.</li> <li>4. If there is a failure in connecting to the database while attempting to add points.</li> <li>5. If the points being added exceed predefined limits or violate a system rule (e.g., maximum allowed champ points per event or per student).</li> <li>6. If duplicate entries are accidentally created due to a system glitch.</li> <li>7. If the student ID provided does not match any records or is incorrectly formatted.</li> <li>8. If the function times out due to high system load or a delay in processing the request.</li> <li>9. If two admins attempt to add champ points to the same student simultaneously, leading to a conflict in updates.</li> <li>10. If the student’s eligibility to receive champ points for the specified event has not been verified or approved.</li> </ol>
Post Condition	<ol style="list-style-type: none"> <li>1. The specified student’s champ point total in the database has been incremented by the amount added.</li> <li>2. A record of the addition (including details like the admin who performed the action, the amount of points added, and the timestamp) is saved in the system for accountability and traceability.</li> </ol>

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	<ol style="list-style-type: none"> <li>3. The admin is provided with a confirmation message indicating the successful addition of champ points.</li> <li>4. If the system includes a dashboard or summary view of champ points, it is updated in real-time to reflect the newly added points.</li> <li>5. All system rules or constraints related to champ points (e.g., maximum points per event or per student) have been adhered to.</li> </ol>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. META Event app users must have internet access for META Event Application to work. [CR001]</li> <li>2. Users cannot access the platform without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators versus students). [CR003]</li> <li>3. The application should support a growing number of META students, administrators, and events without performance degradation. [CR006]</li> </ol>


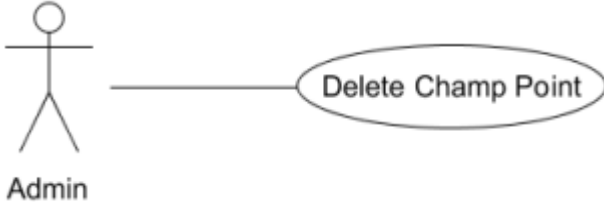

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Table 3.15: Use case description for Delete Champ Point


			
User Case ID	UC015	Author	Goh Quo Teng
User Case Name	Delete Champ Point	Write Date	12/1/2025
Actor	Admin		
Description	A function for admin to delete the champ points that was received by the META student through participating events.		
Pre-condition	<ol style="list-style-type: none"> <li>1. The user performing the action must be logged in and have the required administrative privileges to delete champ points. This ensures that only authorized personnel can modify points data.</li> <li>2. The champ point entry to be deleted must exist in the database. This prevents errors due to attempting to delete non-existent records.</li> <li>3. A valid META student identifier (e.g., student ID) must be provided to locate the specific champ point entry for deletion.</li> <li>4. The admin must explicitly confirm the deletion action (e.g., through a confirmation dialog) to avoid accidental deletion of champ points.</li> <li>5. Ensure the deletion of champ points does not affect other dependent processes or calculations (e.g., cumulative champ points for ranking). The system might need to update or adjust related data.</li> </ol>		
Basic Steps	<ol style="list-style-type: none"> <li>1. Admin login into the application.</li> <li>2. The app displays the main menu.</li> <li>3. Admin click on “Champ Point Management” .</li> <li>4. Admin click on the “Delete” button.</li> <li>5. The app displays the student list.</li> <li>6. Admin click on one student.</li> </ol>		

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	<ol style="list-style-type: none"> <li>7. The app displays the events that students have participated in and the champ points they have obtained from participating in the events.</li> <li>8. Admin click on one champ point to delete.</li> <li>9. Admin confirms the operation.</li> </ol>
Alternate Steps	N/A
Exception	<ol style="list-style-type: none"> <li>1. Invalid or Expired User Session <ul style="list-style-type: none"> <li>- Cause: The admin's session has expired or is invalid.</li> <li>- System Response: Display an error message.</li> <li>- Redirect the user to the login page.</li> </ul> </li> <li>2. Record Not Found <ul style="list-style-type: none"> <li>- Cause: The specified champ point record does not exist or has already been deleted.</li> <li>- System Response: Display an error message.</li> </ul> </li> <li>3. System Connectivity Issue <ul style="list-style-type: none"> <li>- Cause: Network or server issues prevent the function from accessing or updating the database.</li> <li>- System Response: Display an error message.</li> <li>- Allow the user to retry after resolving the connectivity issue.</li> </ul> </li> </ol>
Post Condition	<ol style="list-style-type: none"> <li>1. The specified champ point record is permanently removed from the database.</li> <li>2. Any references or links to the deleted record are updated to maintain data integrity.</li> <li>3. The system provides confirmation to the admin, such as: "Champ point record deleted successfully."</li> <li>4. The deletion action is logged for accountability, including details like the admin's ID, timestamp, and the deleted record's information.</li> <li>5. The updated champ point list is displayed to the admin, reflecting the deletion.</li> </ol> <p>If the function fails due to an error or exception:</p>


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	<ol style="list-style-type: none"> <li>1. Data Integrity: <ul style="list-style-type: none"> <li>- No changes are made to the database, and all existing records remain intact.</li> </ul> </li> <li>2. System Feedback: <ul style="list-style-type: none"> <li>- An appropriate error message is displayed to the admin, such as: "Unable to delete champ point record. Please try again later."</li> </ul> </li> <li>3. Retry Option: <ul style="list-style-type: none"> <li>- The system allows the admin to attempt the deletion again after resolving the issue.</li> </ul> </li> </ol>
Business Validation / Rules (constraints)	<ol style="list-style-type: none"> <li>1. META Event app users must have internet access for META Event Application to work. [CR001]</li> <li>2. Users cannot access the platform without valid credentials. Role-based permissions must strictly enforce access controls (e.g., administrators versus students). [CR003]</li> <li>3. The application should support a growing number of META students, administrators, and events without performance degradation. [CR006]</li> </ol>

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### 3.4.2.6 Use Case Descriptions For Event Registration (PRISHA A/P GUNASEGARAN)

Table 3.16: Use case description for View Event Registration

User Case ID	UC016	Author	Prisha A/P Gunasegaran
			
User Case Name	View Event Registration	Write Date	15/1/2025
Actor	META Student and Admin		
Description	Allows META students and admins to view the list of available events for registration.		
Pre-condition	Events must exist in the system.		
Basic Steps	META Students and Admin: <ol style="list-style-type: none"> <li>META Student and admin logs in.</li> <li>META Student and admin to the "Event Registration" interface.</li> <li>META Student and admin clicks the "View" button.</li> <li>The system displays a list of events, including event names and details.</li> <li>META Student and admin can search for a specific event using the search bar.</li> </ol>		
Alternate	N/A		
Exception	If the system fails to fetch events, an error message appears: "Unable to load events. Please try again later."		
Post Condition	The user successfully views the list of available events.		
Business Validation/ Rules	CR001: Internet access is required to fetch and display the event		

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(constraints)

list.

CR002: The interface must be simple enough for users to search and view events easily.

CR003: Only users with valid credentials can access the event list.



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Table 3.17: Use case description for Add Event Registration


 <p>The diagram shows a use case labeled "Add Event Registration" connected to an actor labeled "Admin".</p>			
User Case ID	UC017	Author	Prisha A/P Gunasegaran
User Case Name	Add Event Registration	Write Date	15/1/2025
Actor	Admin		
Description	Allows admin to add new events to the system.		
Pre-condition	<ol style="list-style-type: none"> <li>1. The user must be logged in as an admin.</li> <li>2. The event name and details must be prepared.</li> </ol>		
Basic Steps	<ol style="list-style-type: none"> <li>1. Admin logs in to the system.</li> <li>2. Admin navigates to the "Event Registration" management panel.</li> <li>3. Admin clicks the "Add" button.</li> <li>4. Admin fills in the event details, including: <ul style="list-style-type: none"> <li>● Event Name</li> <li>● Date and Time</li> <li>● Event Description</li> </ul> </li> <li>5. The system confirms the event has been added successfully.</li> </ol>		
Alternate	N/A		
Exception	Missing Required Fields: If any mandatory fields are left blank, the system shows an error message: "Please fill in all required fields."		
Post Condition	The new event is successfully saved and appears in the event list for all users.		
Business Validation/ Rules (constraints)	<ol style="list-style-type: none"> <li>1. CR001: Admins must have internet access to add events to</li> </ol>		


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	<p>the system.</p> <ol style="list-style-type: none"> <li>2. CR003: Only users with admin credentials can access the "Add Event" functionality.</li> <li>3. CR006: The system must handle a growing number of events without performance degradation.</li> </ol>
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Table 3.18: Use case description for Delete Event Registration

 <p>The diagram shows a use case labeled "Delete Event Registration" in an oval, connected by a line to an actor labeled "Admin".</p>			
User Case ID	UC018	Author	Prisha A/P Gunasegaran
User Case Name	Delete Event Registration	Write Date	15/1/2025
Actor	Admin		
Description	Allows admins to delete existing events from the system.		
Pre-condition	The event must not have active registrations.		
Basic Steps	<ol style="list-style-type: none"> <li>1. Admin logs in to the system.</li> <li>2. Admin navigates to the "Event Registration" management panel.</li> <li>3. Admin clicks the "Delete" button.</li> <li>4. Admin selects an event to delete.</li> <li>5. Admin confirms the deletion.</li> <li>6. The system removes the event and updates the event list.</li> </ol>		
Alternate	N/A		
Exception	If the deletion fails due to a database error, the system shows: "Unable to delete the event. Please try again later."		
Post Condition	The event is removed from the system and no longer appears in the event list.		
Business Validation/ Rules (constraints)	<ol style="list-style-type: none"> <li>1. CR001: Admins must have internet access to delete events from the system.</li> <li>2. CR003: Only users with admin credentials can access the "Delete Event" functionality.</li> <li>3. CR006: The system must efficiently handle deletions even</li> </ol>		

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with a growing number of events.

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### 3.5 Structural (Classes/ Data) Requirements

#### 3.5.1 Class Diagram

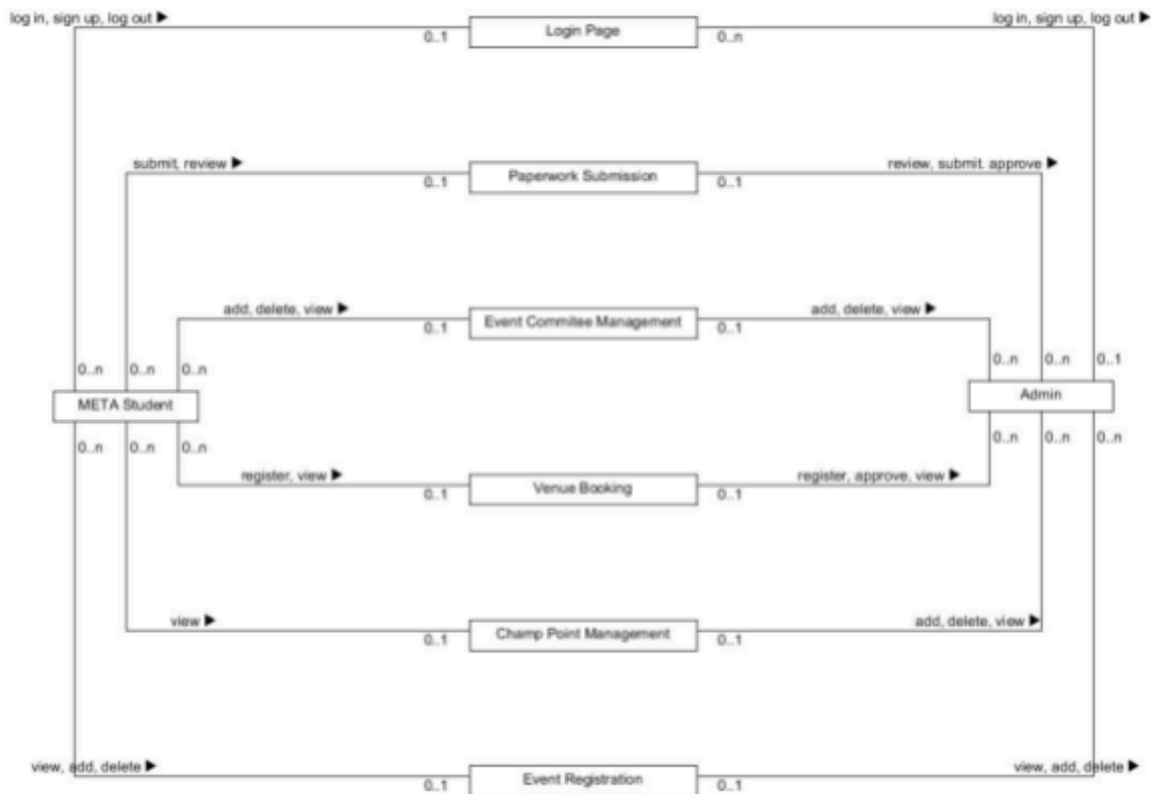



Figure 3.8 : A class diagram for META Event Application

#### 3.5.2 Logical Database TBD

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### 3.6 Behavioural Requirements

#### 3.6.1 Activity Diagrams

##### 3.6.1.1 Activity Diagrams For Login Function (MUHAMAD DANISH HAKIMI BIN ALI)

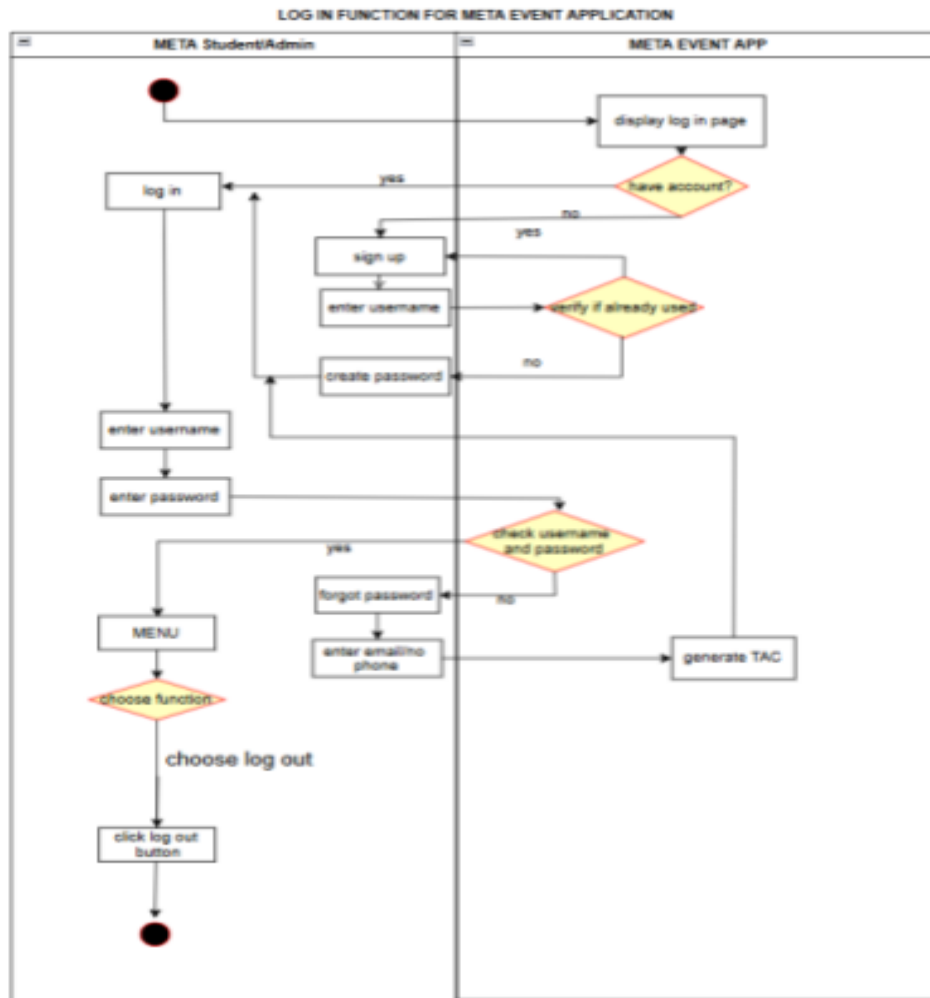



Figure 3.9: An activity diagram for Login function for META student and admin in META Event Application

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### 3.6.1.2 Activity Diagrams For Paperwork Submission (PRISHA A/P GUNASEGARAN)

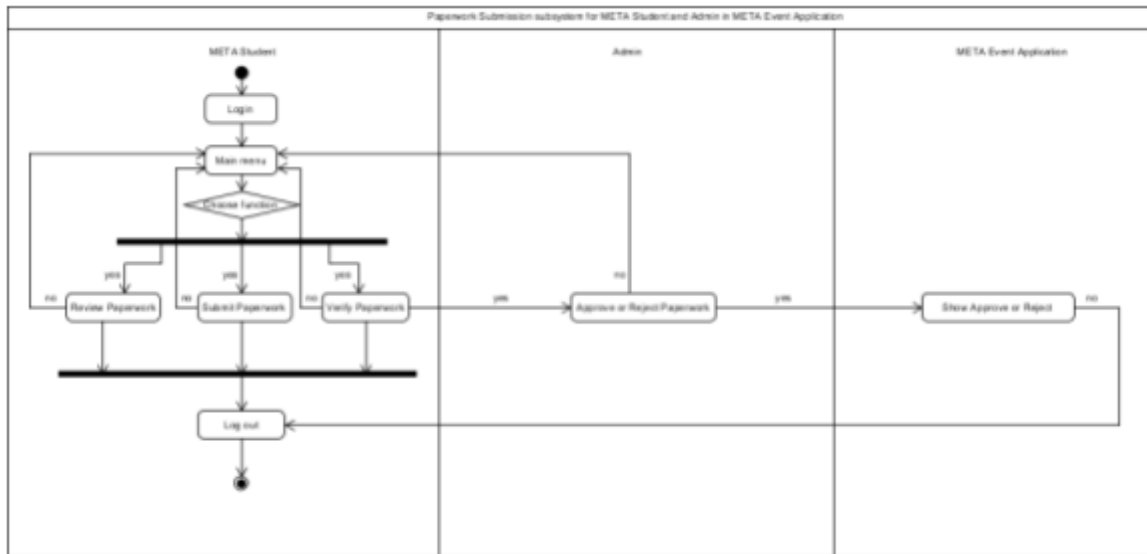


Figure 3.10 : An activity diagram for Paperwork Submission Subsystem for META student and admin in META Event Application

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### 3.6.1.3 Activity Diagrams For Event Committee Management (SHI KAI YAN)

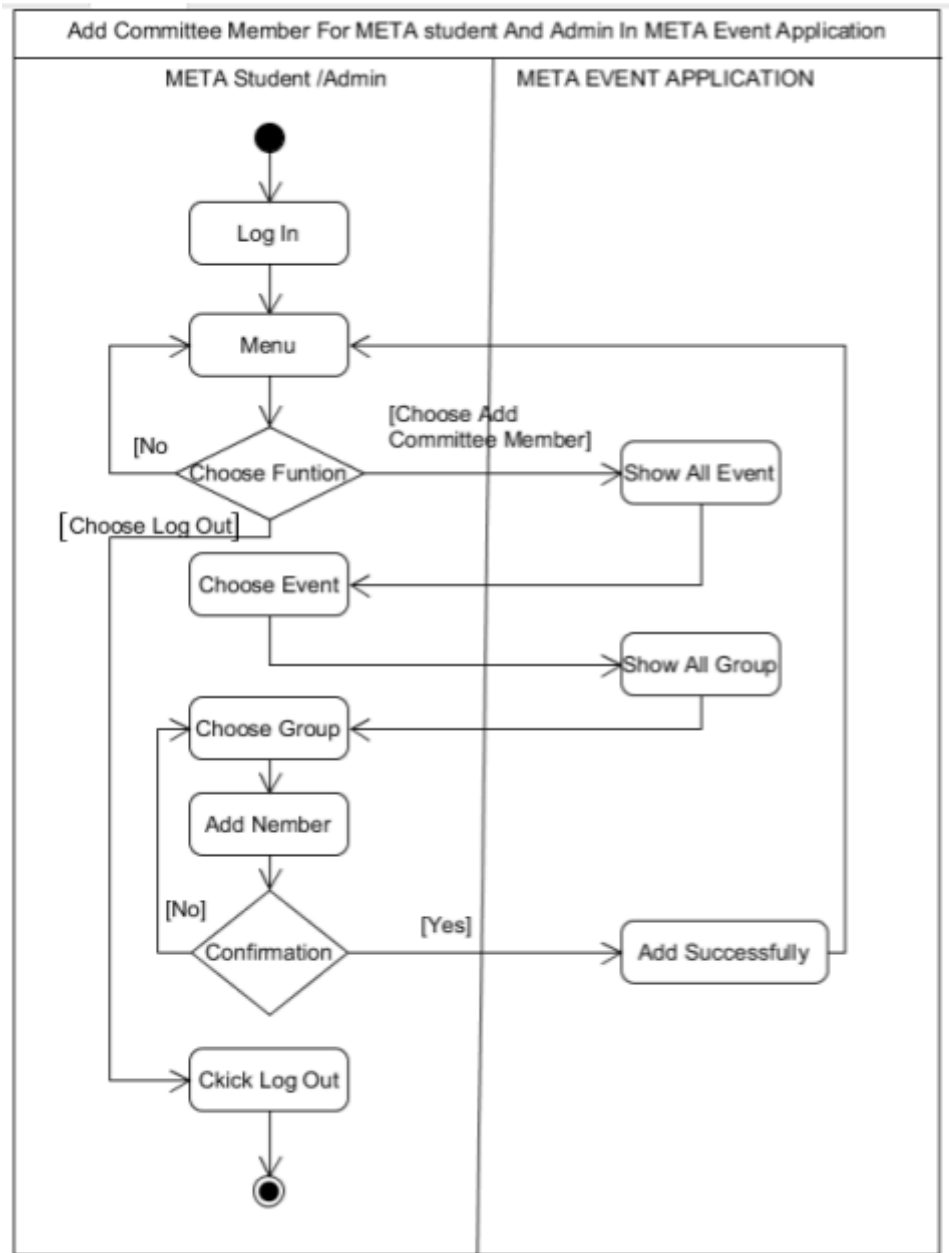


Figure 3.11 : An activity diagram for Add Committee Member for META student and admin in META Event Application

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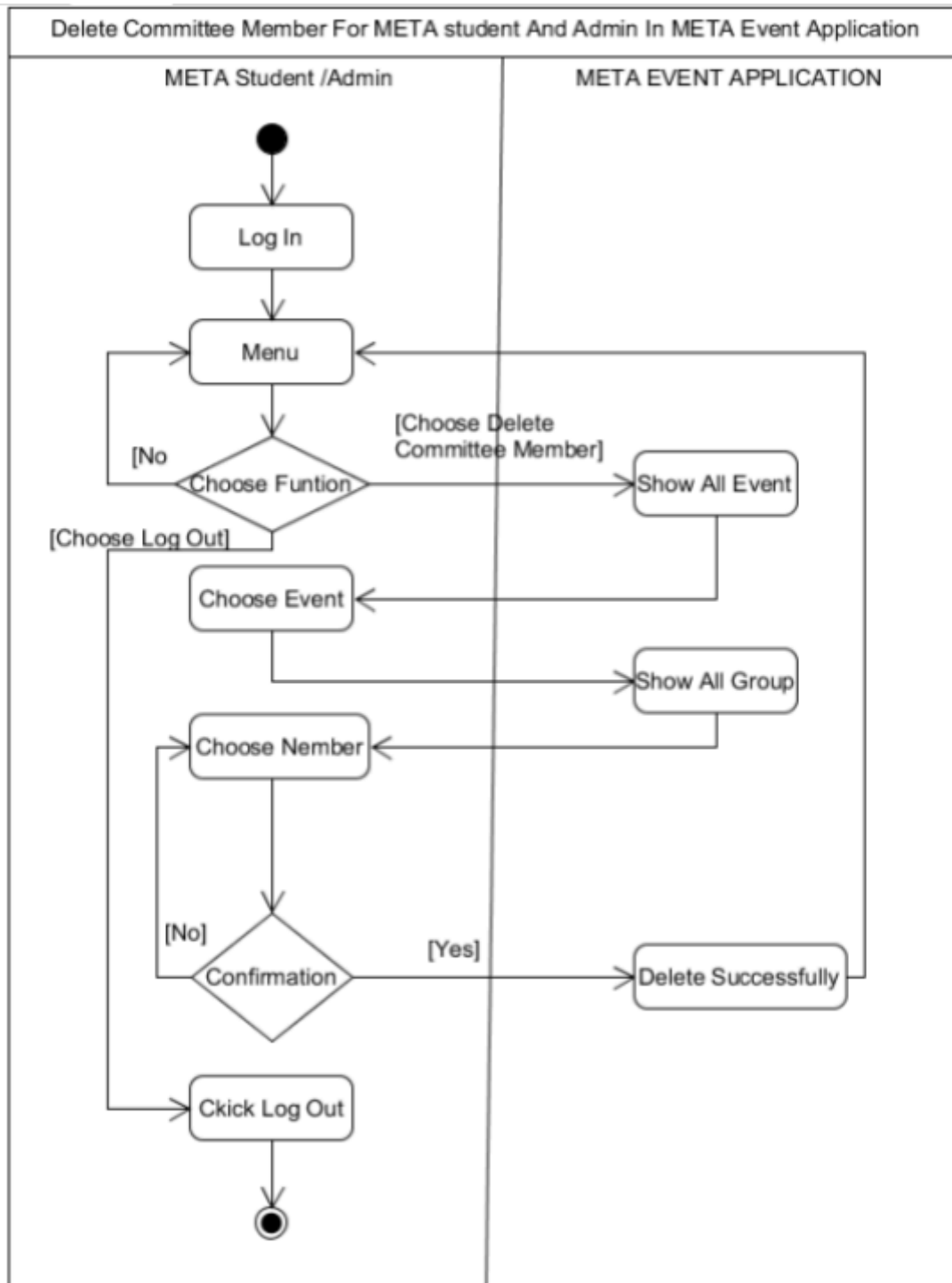


Figure 3.12 : An activity diagram for Delete Committee Member for META student and admin in META Event Application

	<b>DOCUMENT IDENTIFICATION</b>	
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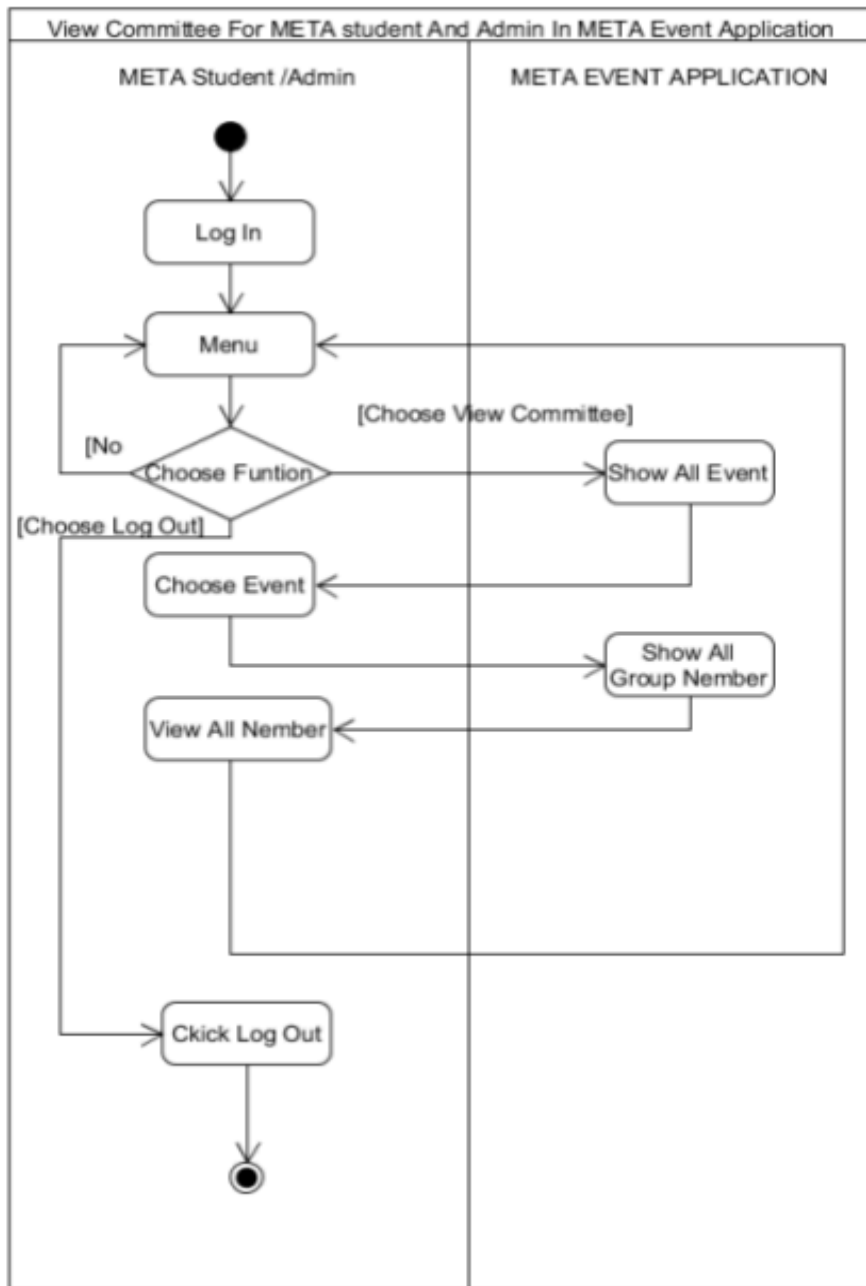


Figure 3.13 : An activity diagram for View Committee for META student and admin in META Event Application

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**3.6.1.4 Activity Diagrams For Venue Booking  
(WONG CHUN LIANG)**

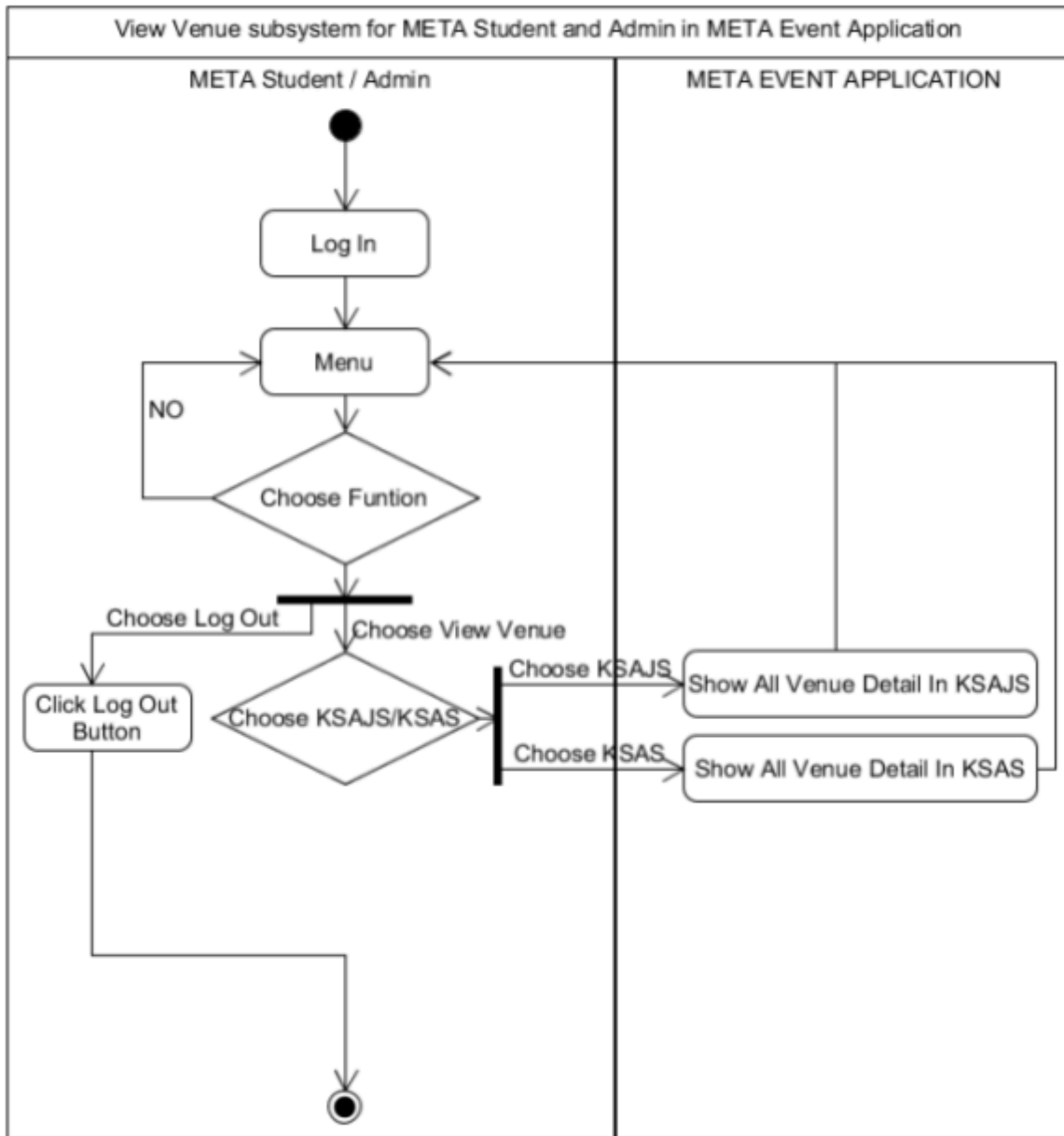


Figure 3.14 : An activity diagram for View Venue subsystem for META student and admin in META Event Application



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Figure 3.15 : An activity diagram for Register venue subsystem for META student and admin in META Event Application

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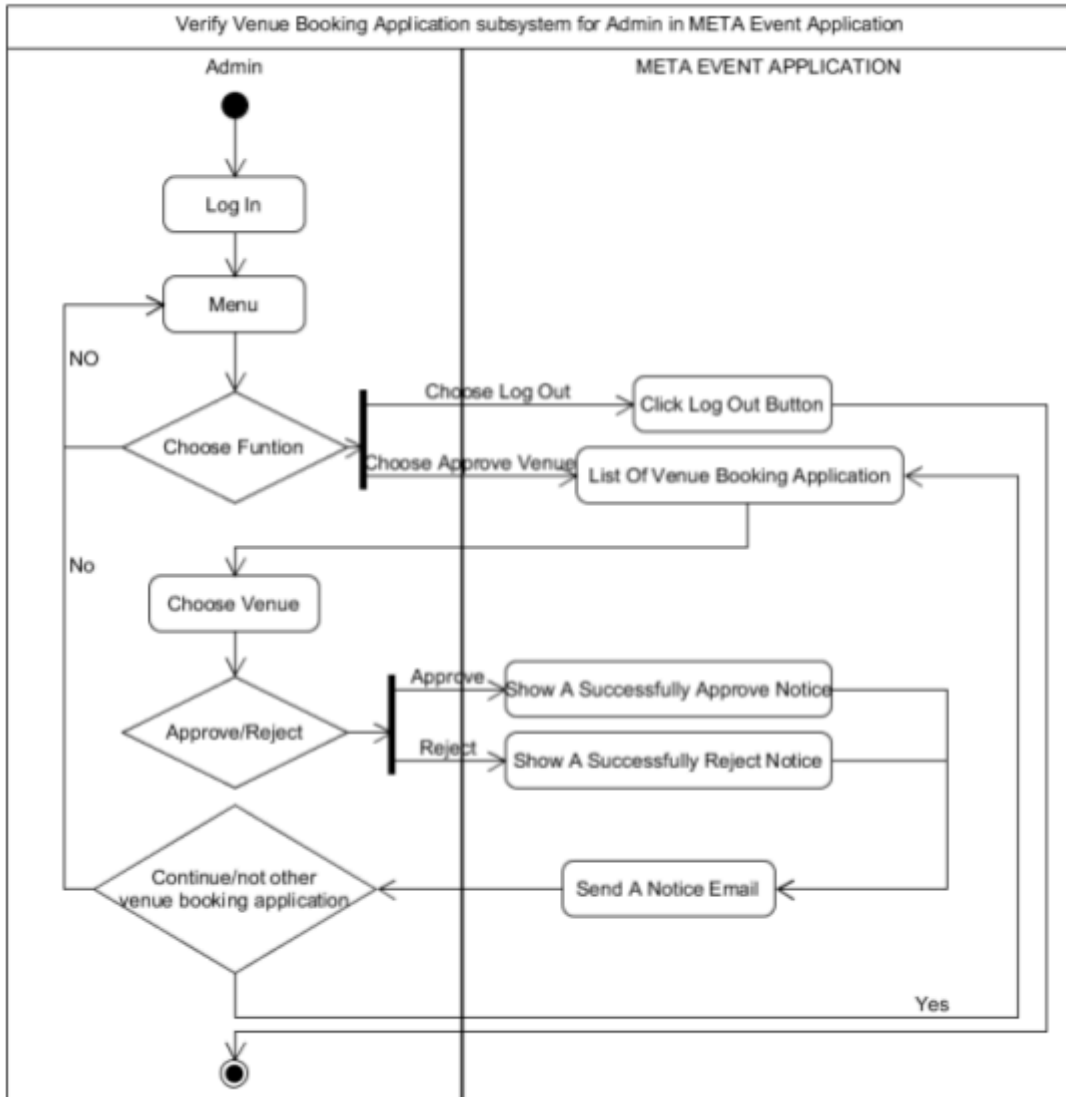


Figure 3.16 : An activity diagram for Verify Venue Booking Application subsystem for admin in META Event Application

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### 3.6.1.5 Activity Diagrams For Champ Point Management (GOH QUO TENG)

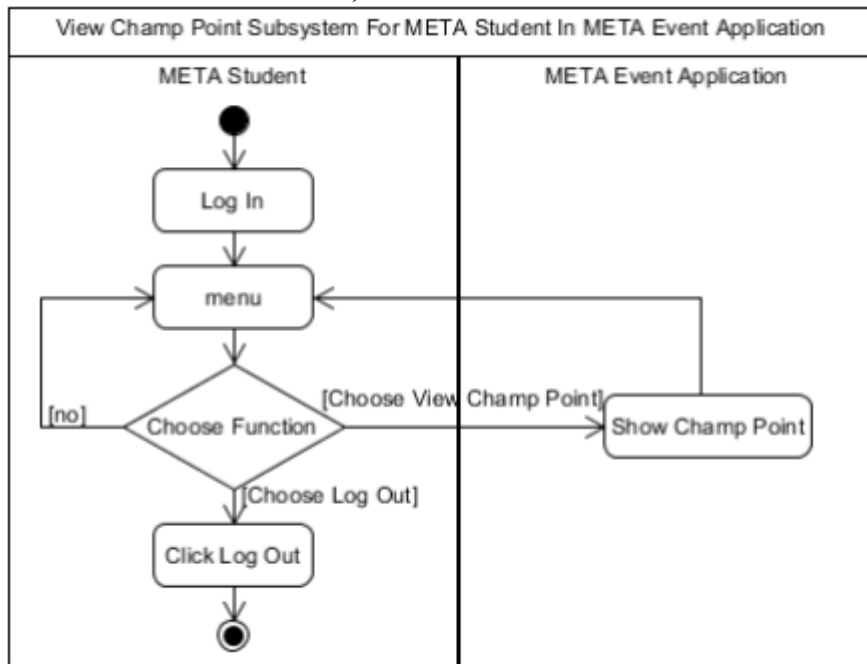



Figure 3.17 : An activity diagram for view champ point subsystem for META student in META Event Application

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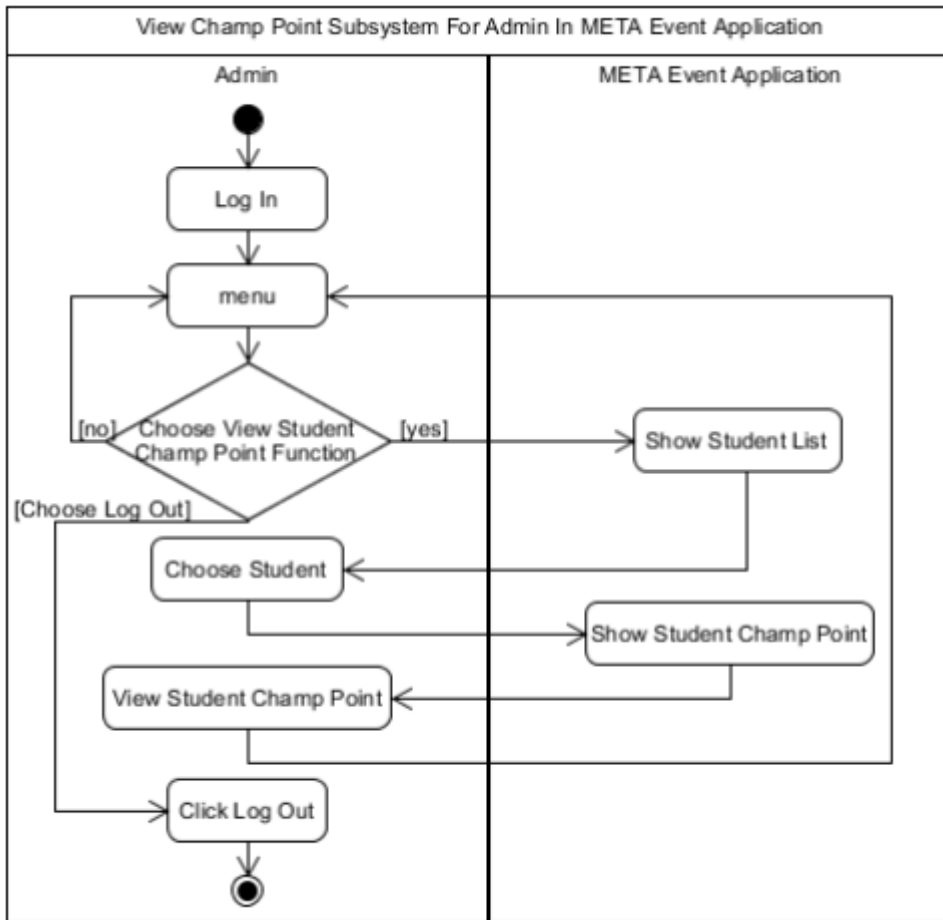



Figure 3.18 : An activity diagram for view champ point subsystem for admin in META Event Application

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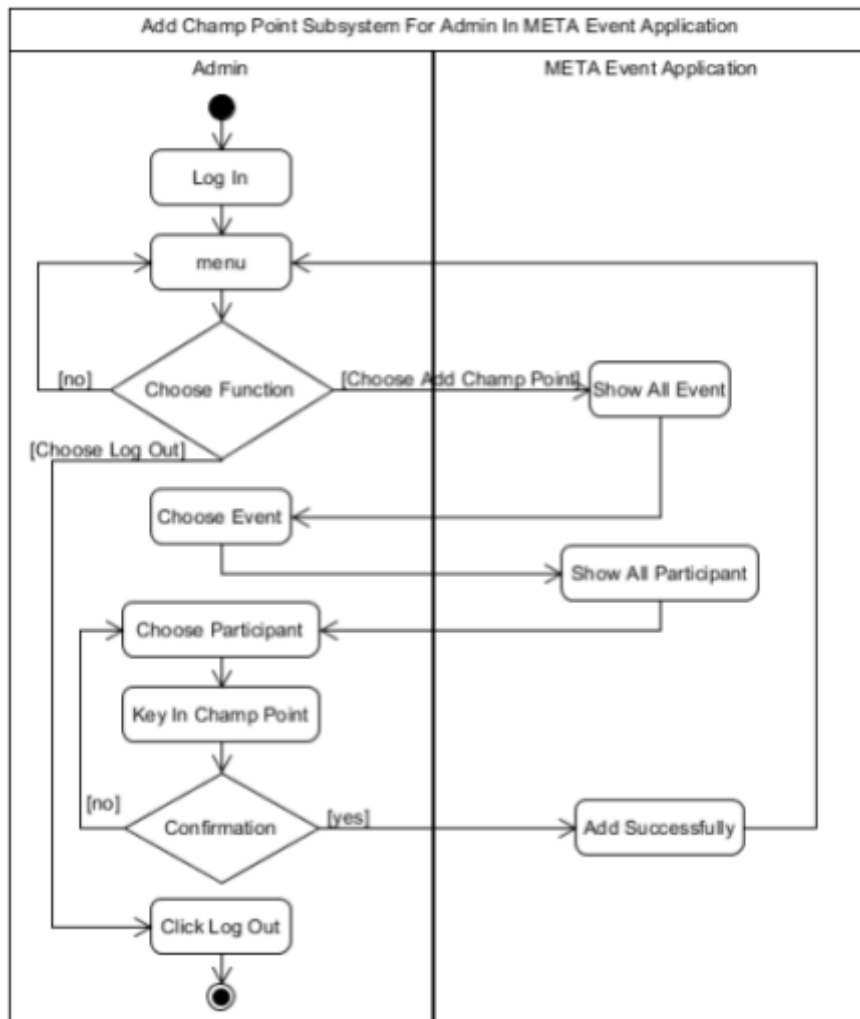


Figure 3.19 : An activity diagram for add champ point subsystem for admin in META Event Application

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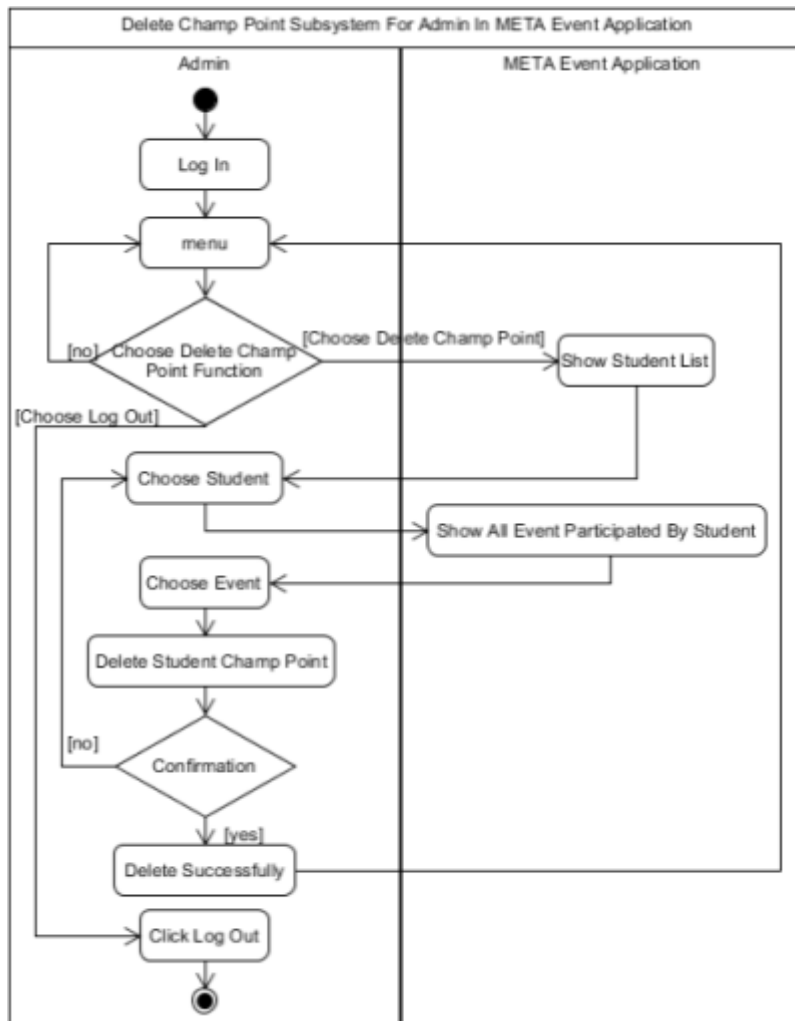



Figure 3.20 : An activity diagram for delete champ point subsystem for admin in META Event Application

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### 3.6.1.6 Activity Diagrams For Event Registration (WONG CHUN LIANG)

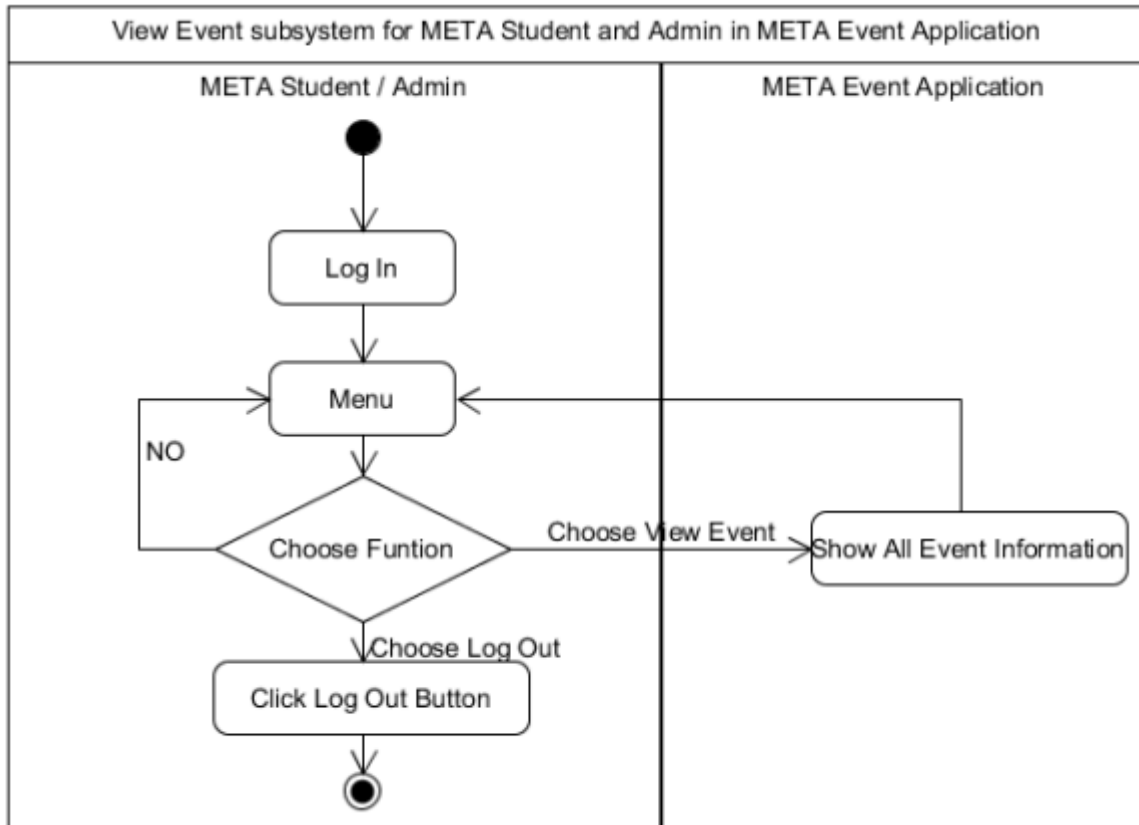


Figure 3.21 : A activity diagram for View Event subsystem for META student and admin in META Event Application

	<b>DOCUMENT IDENTIFICATION</b>	
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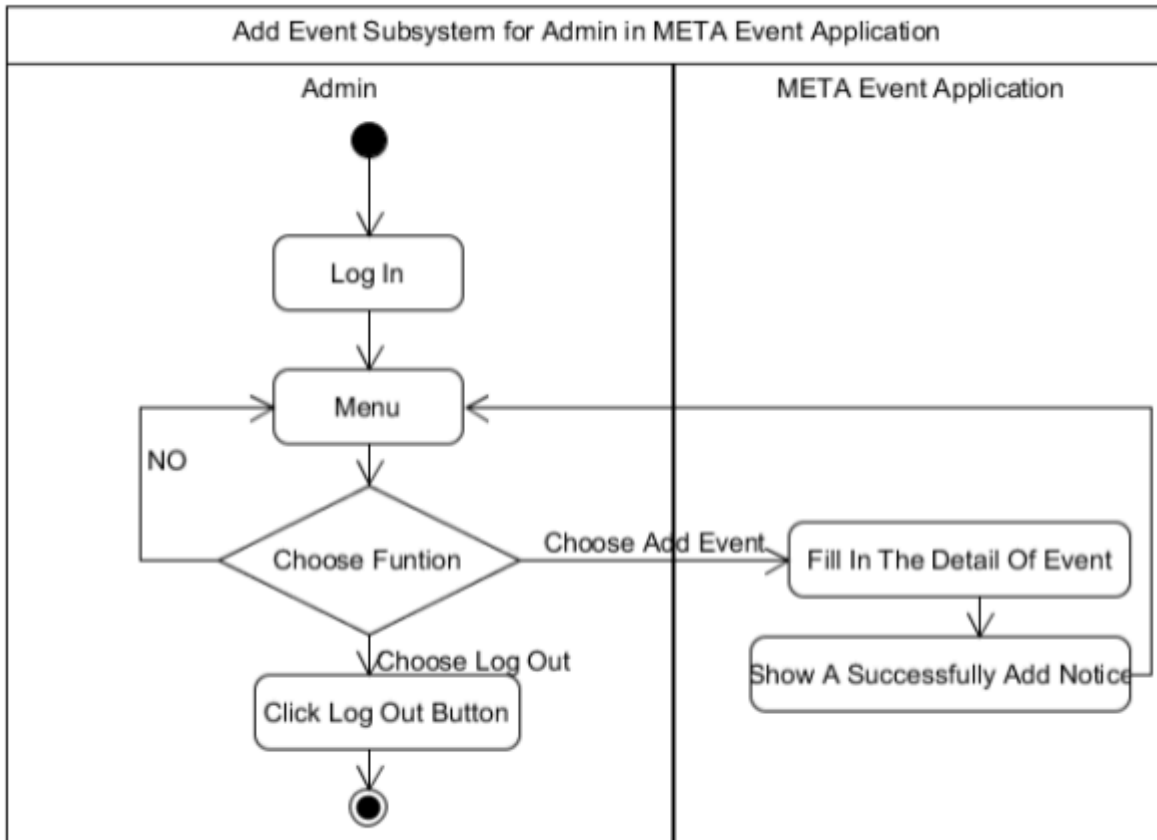


Figure 3.22 : An activity diagram for Add Event subsystem for Admin in META Event Application

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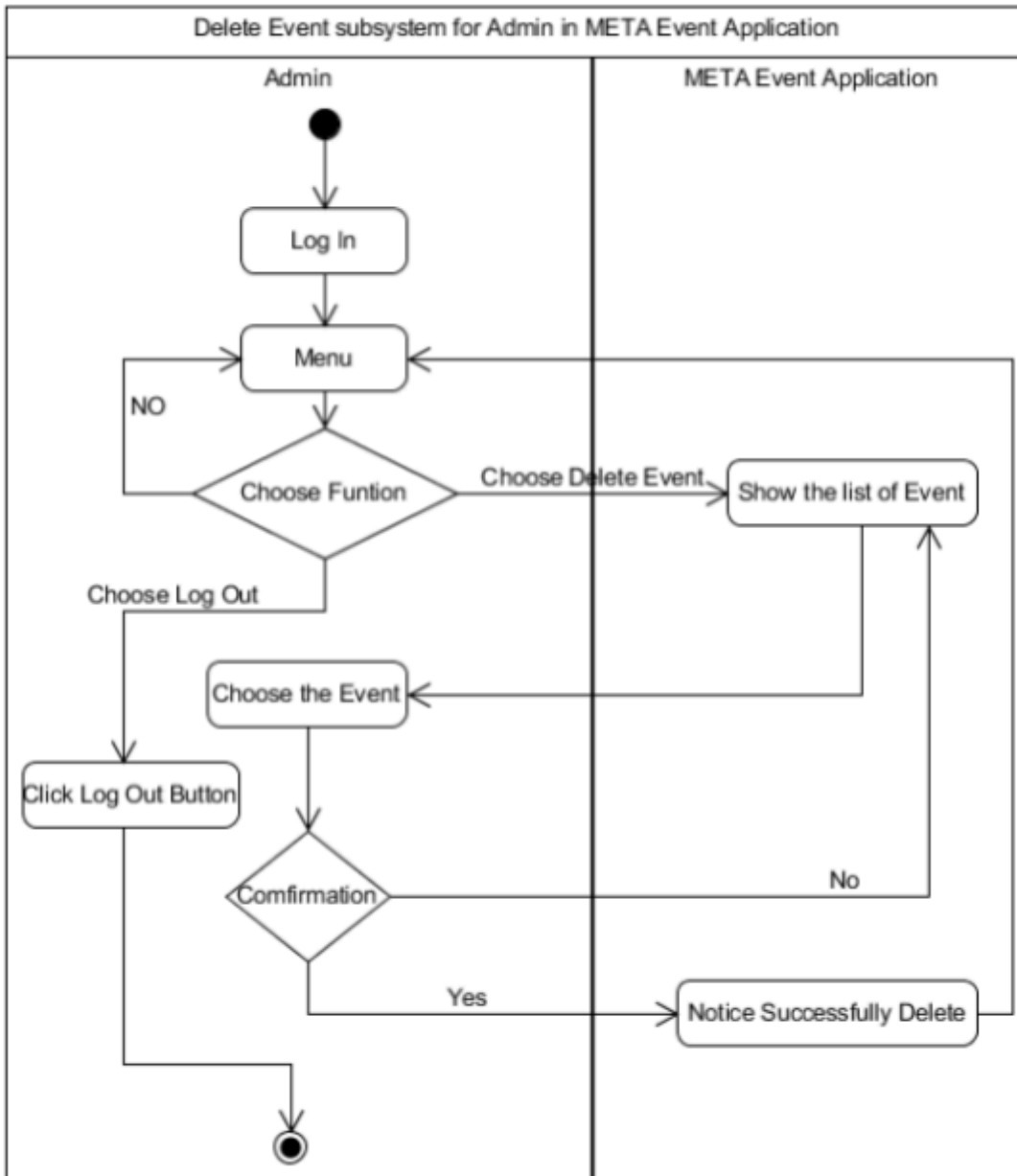




Figure 3.23 : An activity diagram for Delete Event subsystem for Admin in META Event Application

	DOCUMENT IDENTIFICATION	
	APPLICATION NAME	VERSION
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### 3.7 Design Constraints Requirements

CR_ID	CONSTRAINTS REQUIREMENTS	RELATED FR_ID
CR001	<b>Must</b> have internet access for META Event Application to work.	General
CR002	The user interface of the application <b>must</b> be simple enough for users to understand and make use of its capabilities.	General
CR003	Users cannot access the platform without valid credentials. Role-based permissions <b>must</b> strictly enforce access controls (e.g., administrators versus students).	FR002
CR004	File uploads <b>must</b> support common document formats (e.g., PDF, DOCX, JPEG).	FR005
CR005	Document size limits <b>should</b> be predefined (e.g., 10 MB per file).	FR005
CR006	The application <b>should</b> support a growing number of META students, administrators, and events without performance degradation.	General
CR007	The system <b>should</b> display real-time updates on venue and people availability.	FR010
CR008	The system <b>must</b> ensure that no double-booking occurs by verifying both the venue's availability and the assigned personnel's schedule for the requested date and time before confirming the booking.	FR012
CR009	The application <b>should</b> display real-time updates on the view champ point page.	FR015
CR010	Users <b>should</b> be temporarily locked out after 5 consecutive failed login attempts for 15 minutes to prevent brute force attacks.	FR001
CR011	The system <b>must</b> prevent multiple accounts from being created with the same email address.	FR001

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<b>CR012</b>	The system <b>must</b> allow users to request a password reset by entering their registered email address.	FR002
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*Table 3.19 : Design Constraint for META Event Application*

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### 3.8 Quality Requirements

QR_ID	QUALITY REQUIREMENTS	FR_ID
QR001	The application should provide an intuitive user interface, ensuring ease of navigation for META students and admin.	FR001
QR002	All data exchanges should be encrypted, and role-based access controls should prevent unauthorized actions.	FR002
QR003	Actions such as login, submission, and data retrieval should complete within 2 seconds under standard conditions.	FR003
QR004	The system should comply with relevant data protection regulations to safeguard user information.	FR005
QR005	All features, including Login, Paperwork Submission, and Event Management, should function without errors under normal usage.	FR006
QR006	The system should be designed to accommodate updates or feature enhancements with minimal disruption.	FR007
QR007	The system should handle up to 1,000 concurrent users without noticeable performance degradation.	FR010
QR008	Data related to events, committee members, and champ points should be accurate and consistent across all modules.	FR013
QR009	The application should support an increasing number of users and events without requiring major architectural changes.	FR017

Table 3.20 : Quality Requirement for META Event User

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	APPLICATION NAME	VERSION
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