



**UNIVERSITI TUNKU ABDUL RAHMAN**

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY**

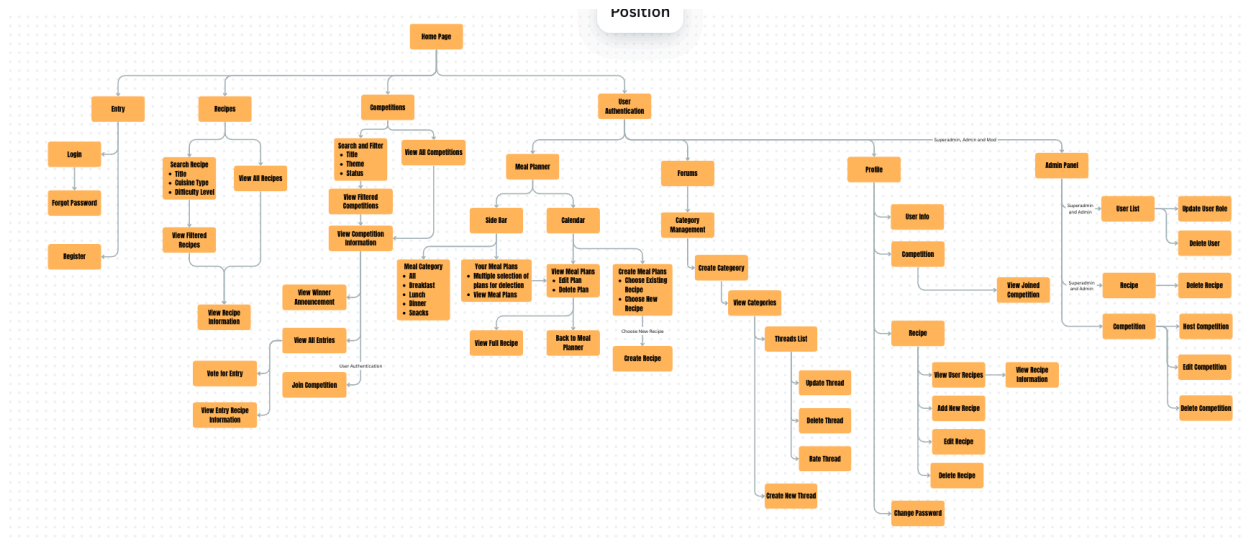
**UCCD3243 SERVER-SIDE WEB APPLICATIONS DEVELOPMENT**

**GROUP ASSIGNMENT**

**Project Title: Interactive recipe and culinary web application**

# 1.0 Site Hierarchy and Navigation

## 1.1 Site Map



## 2.0 System Flowcharts

### 2.1 Recipe Management Module

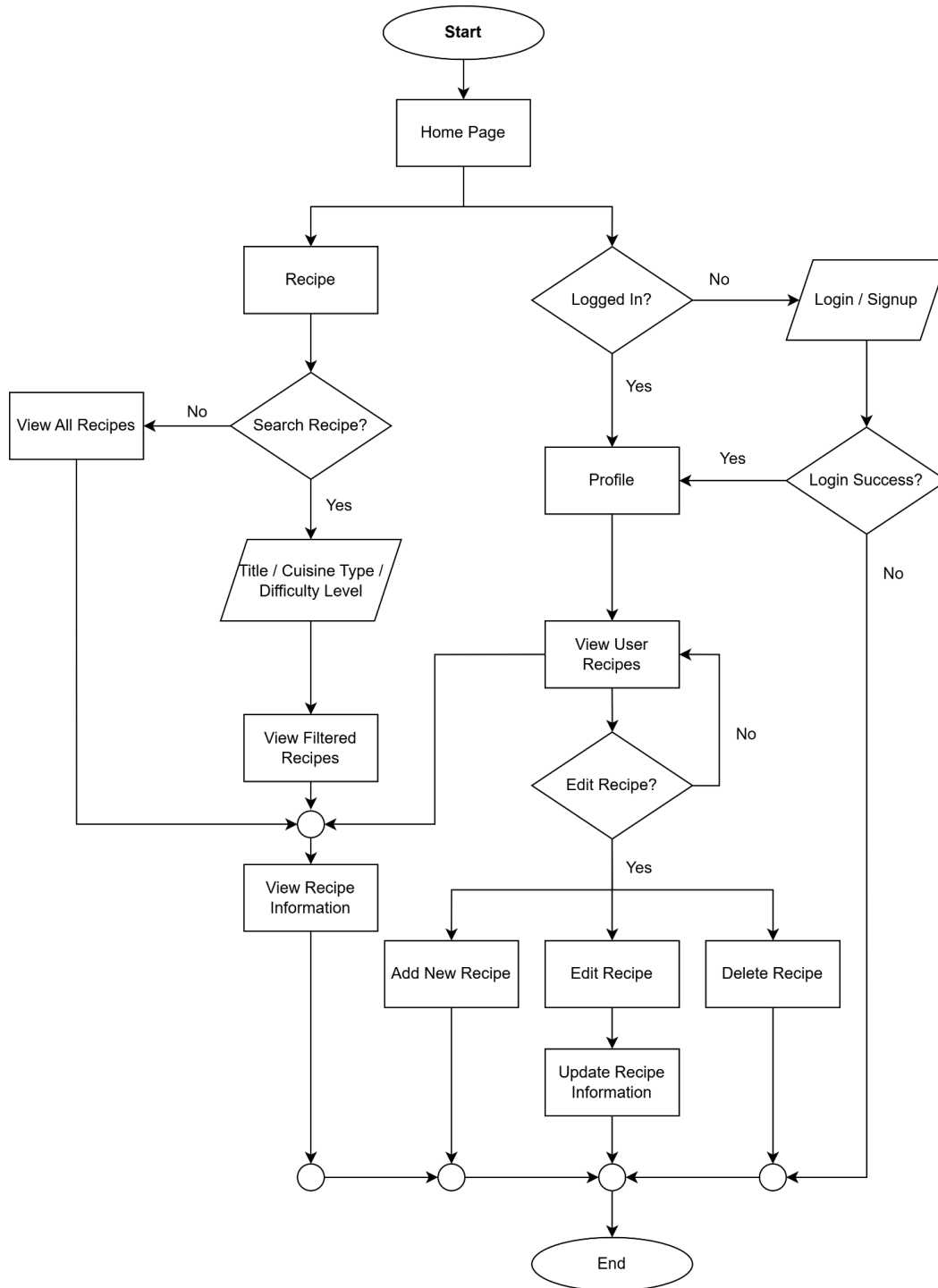


Figure 2.1.1 Recipe Management Module Flowchart

## 2.2 Meal Planning Module

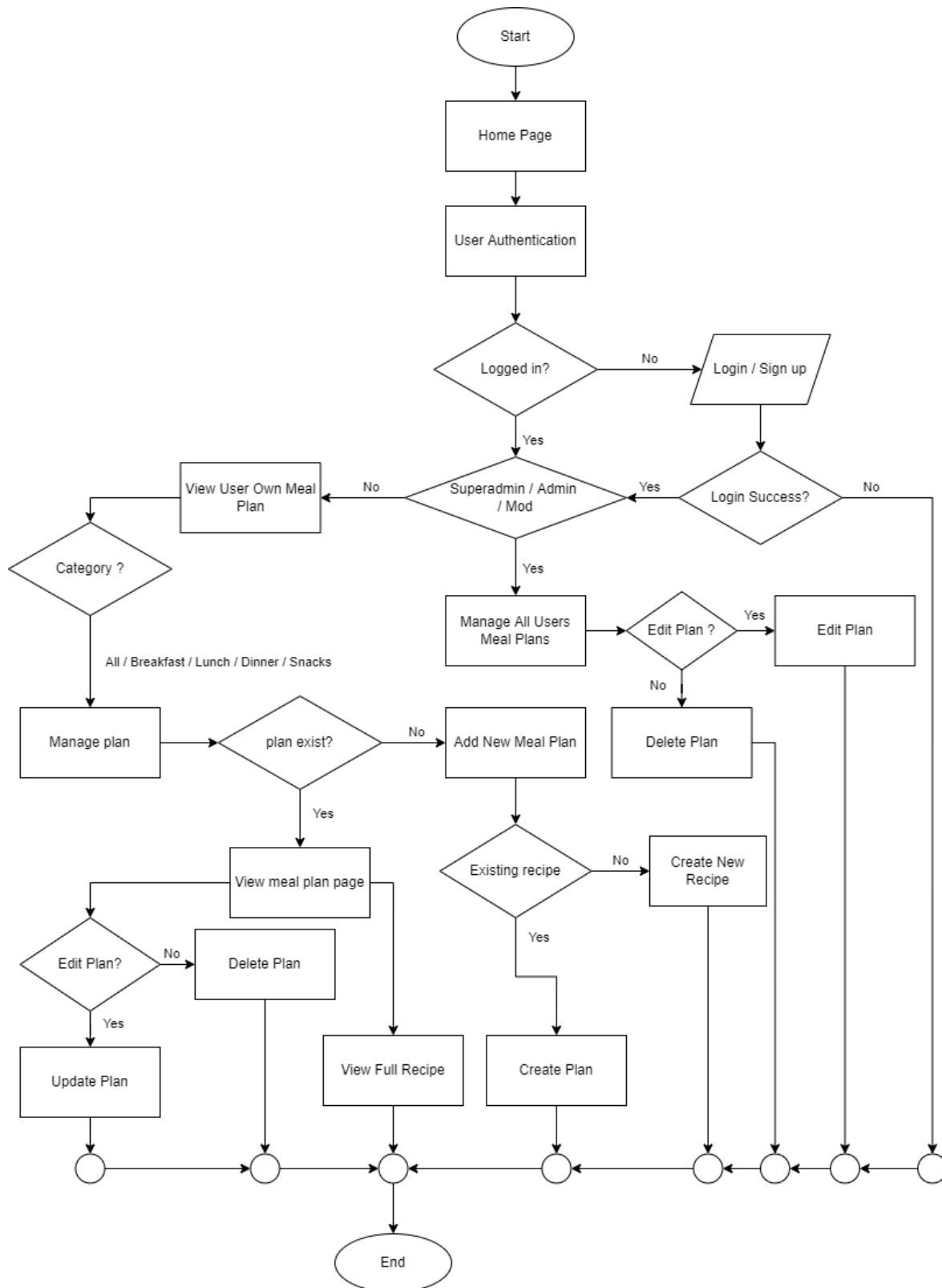


Figure 2.2.1 Meal Planning Module Flowchart

## 2.3 Community Engagement Module

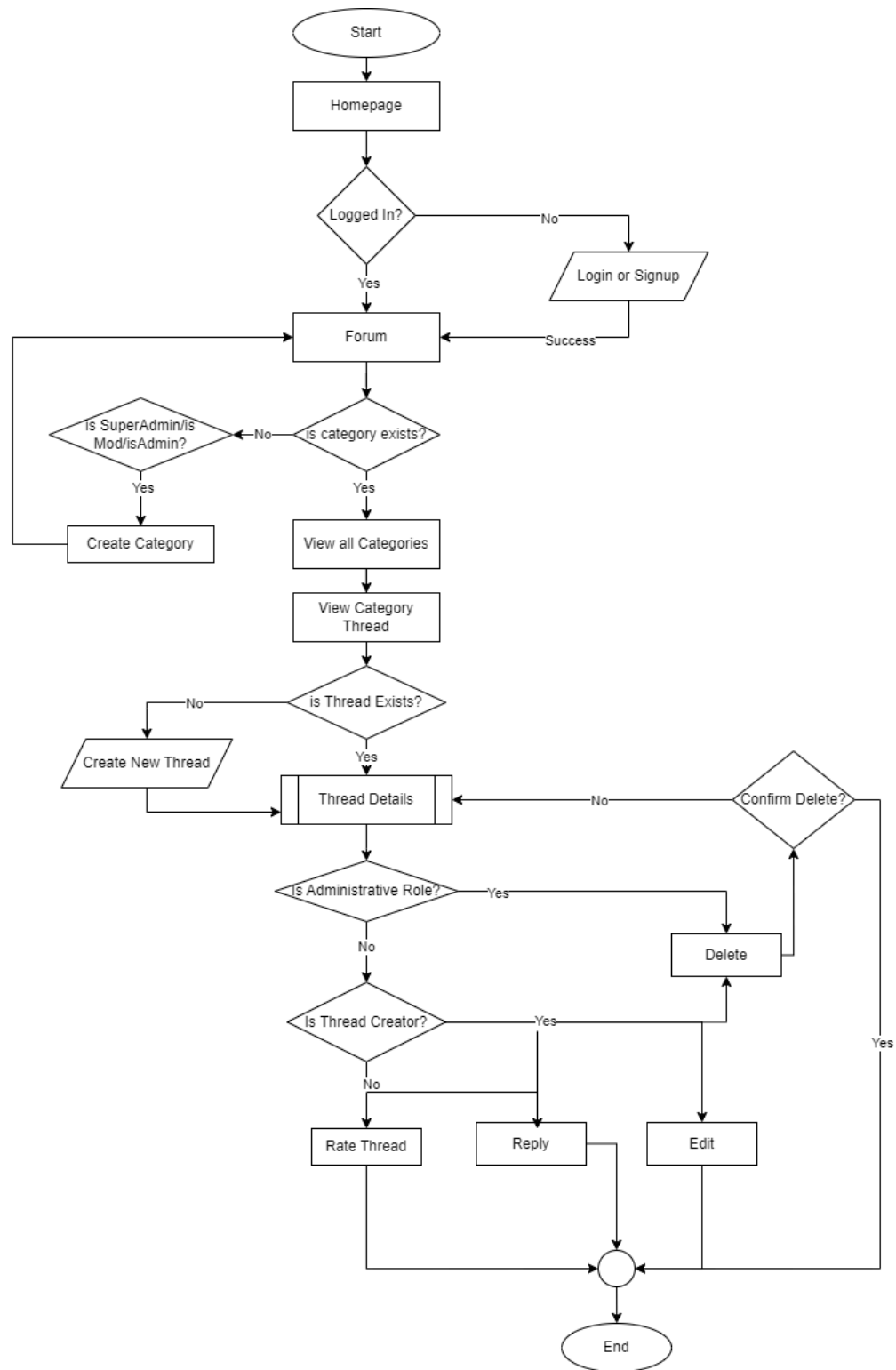


Figure 2.3.1 Community Engagement Module Flowchart

## 2.4 Cooking Competition Module

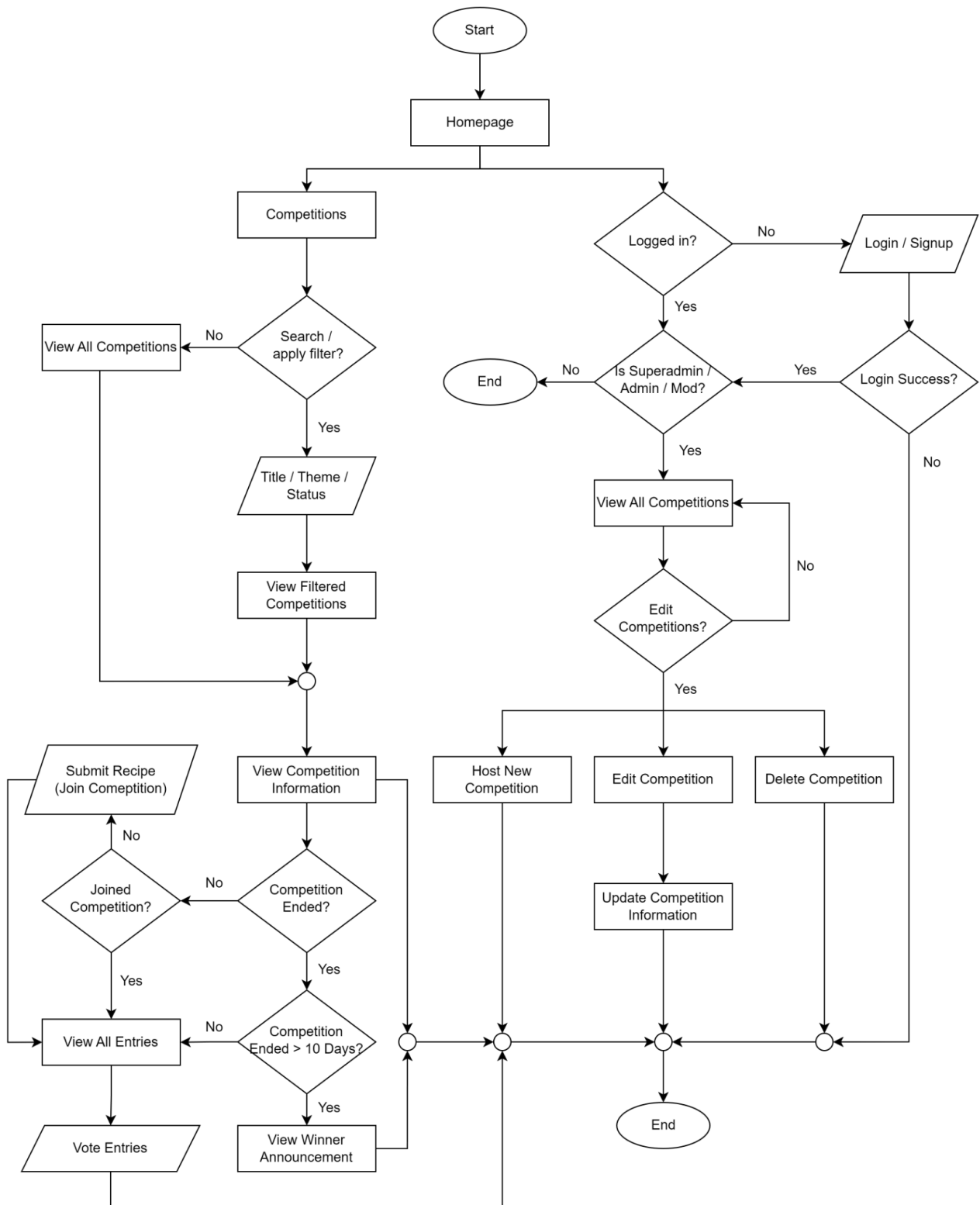


Figure 2.4.1 Cooking Competition Module Flowchart

## 2.5 Admin Management Module

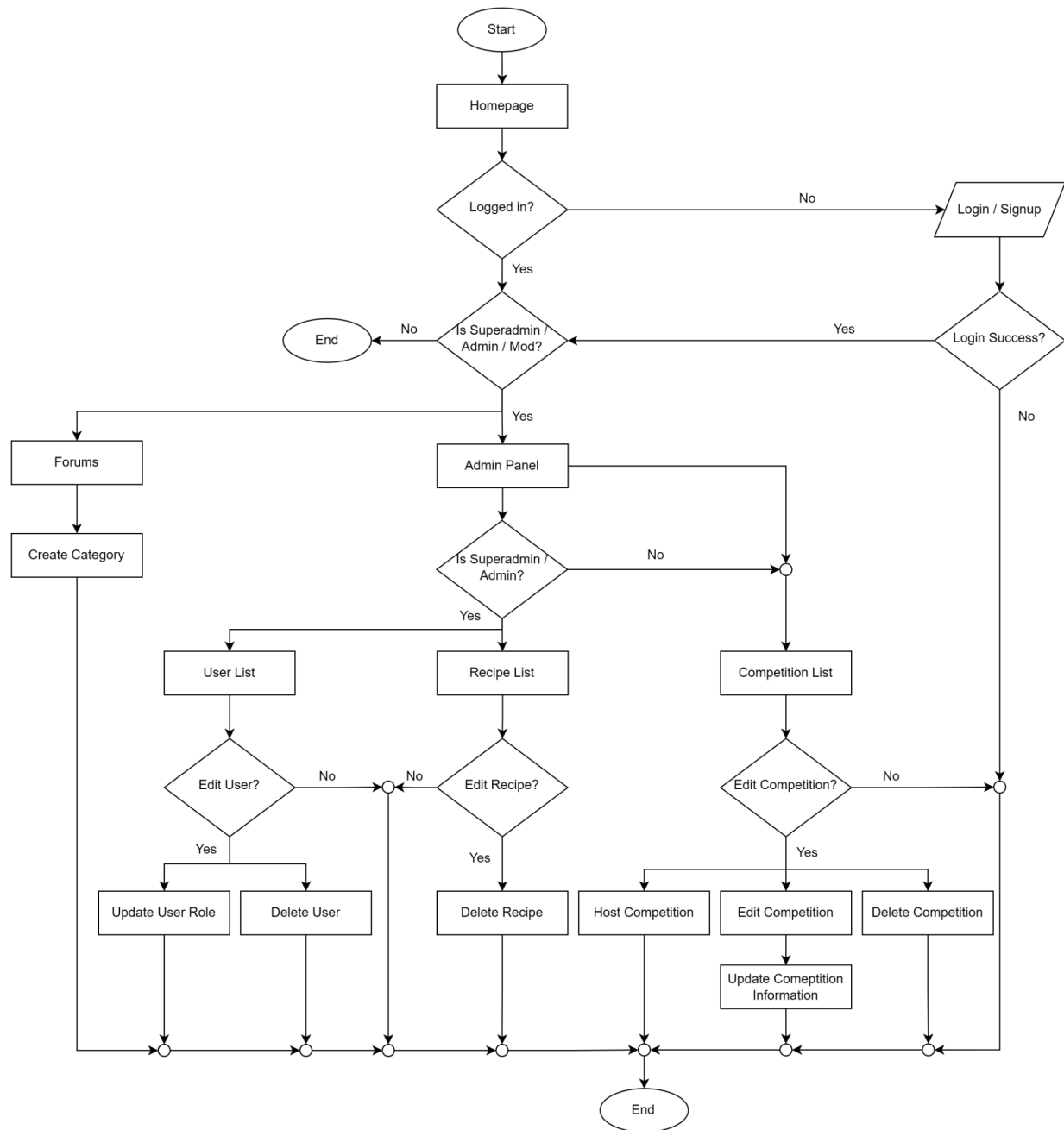


Figure 2.5.1 Admin Management Module Flowchart

## 3.0 Overview of Database Structure

### 3.1 ER-Diagram

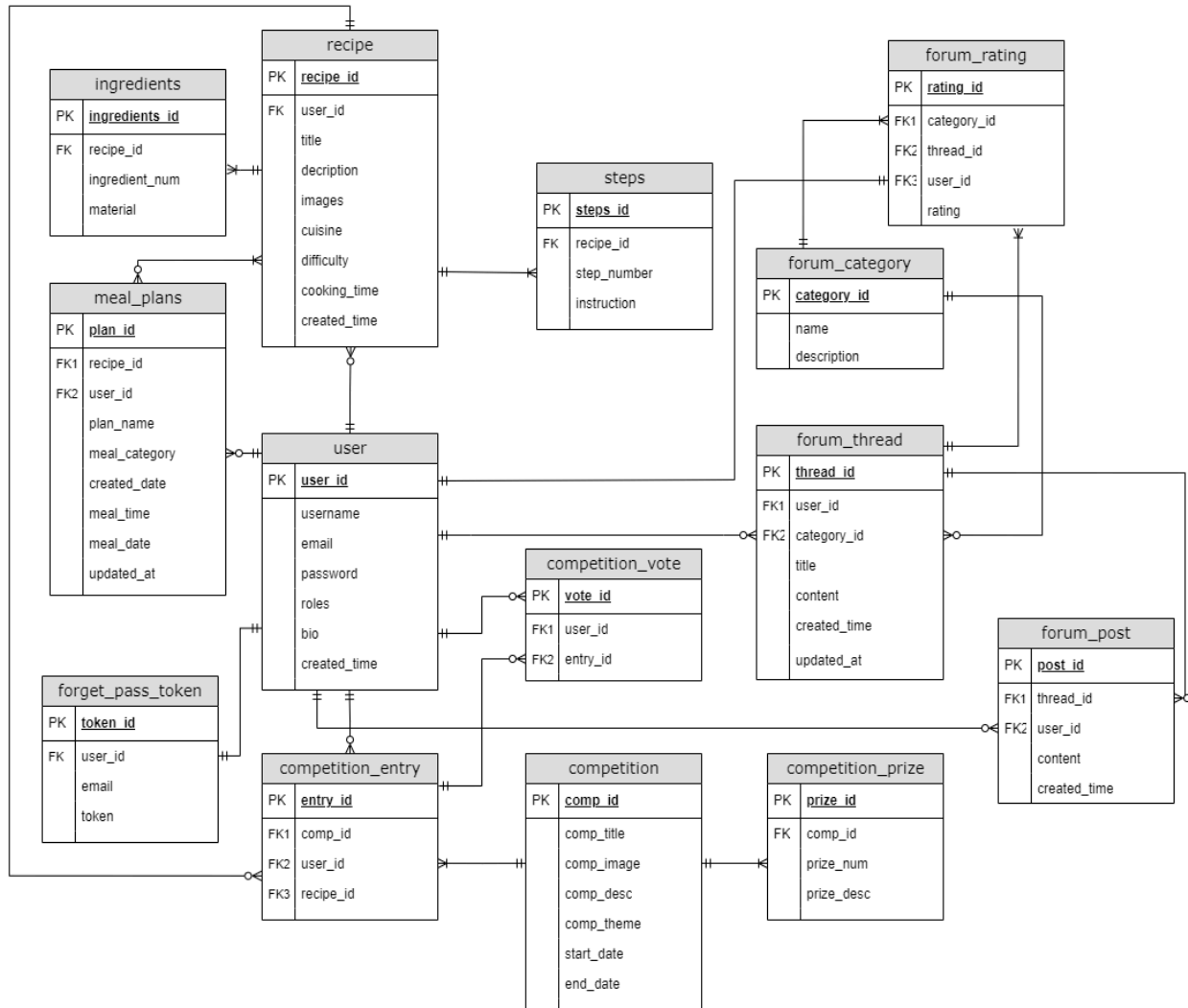


Figure 3.1.1 Entity Relationship Diagram



## **4.0 Functional Requirements**

### **4.1 Recipe Management Module**

#### **For All Users (With / Without an Account):**

- The user is able to view recipes on the recipe page.
- The user is able to search for recipes on the recipe page by filtering specific fields such as title, cuisine type, and difficulty level.
- The user is able to view the detailed information of a specific recipe.

#### **For Users with an Account:**

- The user must be logged in to add new recipes.
- The user can add a new recipe by entering details such as title, description, image, cuisine type, difficulty level, ingredients, steps, and cooking time.
- The system shall store successfully added recipes in the database.
- The user must be logged in to edit their recipes.
- The user can only edit and update their own recipes.
- The user can edit all fields of their recipe including title, description, image, cuisine type, difficulty level, ingredients, steps, and cooking time.
- The system shall display all available recipes in a structured format.
- The user must be logged in to delete their recipes.
- The user can only delete their own recipes.
- The system shall display all recipes added by the user in a structured format in their profile page.

## **4.2 Meal Planning Module**

### **For Users Without an Account:**

- Users unable to view or manage meal plans on Meal Planner Page
- Users only able to access the Meal Planner Page after registration

### **For Users with an Account:**

- Users must be logged in as user to view Meal Planner Page
- Users can add meal plans by clicking on the date on the calendar
- Users can input meal category, meal time, plan name and recipe to add plans
- Users can choose new recipe while there is no existing recipe and will be redirected to create recipe page
- Users can filter the meal plans by meal categories like All, Breakfast, Lunch, Dinner and Snacks
- Users can view their meal plans in Your Meal Plans section
- Users can multi-select and delete the meal plans in Your Meal Plans section
- Users will be redirected to View Meal Plan page by clicking the meal plans in Your Meal Plans or calendar
- Users can view the ingredients and steps on View Meal Plan page
- Users can edit or delete meal plan on View Meal Plan page
- Users can only add meal plans on current day or later

### **For Administrative Users (Superadmin, Admin, Moderators):**

- Administrative Users can view all meal plans created by users
- Administrative Users have the access to manage all meal plans created by users
- Administrative Users can see the users' name by checking the meal plans detail
- Administrative Users can add meal plans like users
- Administrative Users only have access to see their own plans
- Administrative Users can redirected to View Meal Plan page of any meal plans

### **4.3 Community Engagement Module**

#### **For All Users With an account:**

- Users can view all the forums created by the administrators.
- Users can view all the threads inside a category.
- Users can view the average rating for the thread.
- Users can create a new thread inside a category.
- Users can only edit and update their own thread.
- Users can rate for the thread excluding their own in a category.
- Users can create a post (reply) inside the thread.
- Users can view the replies of the thread.
- System shall store the valid and successful user's thread into the database.
- System shall display the replies below the thread in a category.
- System shall display the replies right after a user replies to a thread inside the thread page.
- System shall display the average rating of a thread at the right corner of the thread.

#### **For Administrative Users (Superadmin, Admins, and Moderators):**

- Administrative Users can create categories for the forums page.
- Administrative Users can edit categories for the forums page.
- Administrative Users can delete categories for the forums page.
- Administrative Users can edit a thread inside a category.
- Administrative Users can delete a thread inside a category.

## **4.4 Cooking Competition Module**

### **For All Users:**

- Users can view all competitions hosted by admin.
- Users can search and/or apply filters such as title, theme, status for browsing competitions.
- System shall only display all competitions that matched the user's search and/or filters.
- Users can view the competition information such as description, rules, prizes, schedule and all entries.
- Users can view the winner announcement after the competition ends.
- System shall display all the competition information in a structured format.

### **For Logged In Users:**

- Users can view competitions joined in their profile page.
- Users can submit only one from their recipes that matches the competition's theme to join the competition once before the submission deadline.
- System shall store the valid and successful user's entry into the database.
- Users can vote for their favourite entries excluding their own entry in a competition before the voting deadline.
- System shall store the valid user's vote into the database.

### **For Administrative Users (Superadmin, Admins, and Moderators):**

- Administrative users can access competition management in the admin panel.
- Administrative users can host a new competition by entering the title, image, description, prizes, theme, start date, and end date.
- Administrative users can edit a hosted competition information such as title, image, description, prizes, theme, start date, and end date.
- Administrative users can delete a hosted competition.
- System shall store successful competition management actions into the database.

## **4.5 Admin Management Module**

### **Admin Panel**

#### **For Superadmins and admins:**

- Superadmins and admins can view user lists.
- Superadmins and admins can search and/or apply filters such as roles for the user lists.
- System shall only display all the users that matched the search and/or filters.
- Superadmins can change the role for admin, moderator and user excluding their own self and Superadmin.
- Admins can change the role for moderator and user exclude their own self, Superadmin, and Admin.
- Superadmins can remove any users excluding Superadmin and their own self.
- Admins can remove any users excluding Superadmin, Admin, and their own self.
- System shall store valid and successful user management actions into the database.
- Superadmins and admins can view Recipe lists.
- Superadmins and admins can delete any recipe from the lists.
- System shall remove successful recipe deletion into the database.

#### **For Administrative Users (Superadmin, Admins, and Moderators):**

- Administrative users can view competitions list with management.
- Administrative users can host a new competition by entering the title, image, description, prizes, theme, start date, and end date.
- Administrative users can edit a hosted competition information such as title, image, description, prizes, theme, start date, and end date.
- Administrative users can delete a hosted competition.
- System shall store successful competition management actions into the database

### **Forums**

#### **For Administrative Users (Superadmin, Admins, and Moderators):**

- Administrative Users can create categories for the forums page.
- Administrative Users can edit categories for the forums page.
- Administrative Users can delete categories for the forums page.

- Administrative Users can edit a thread inside a category.
- Administrative Users can delete a thread inside a category.