

System Documentation

for

E-Recipe Hub

Version <3.2>

Tutorial Section: TT2L

Group No.: 5

ISSYE LAILIYAH BINTI	1231303279
SOPINGI	
ZULAIKHA AFZAN BINTI	1221102418
BEE WAN	
IZZAN IRDINA BINTI	1211111886
HUSAINI	
NORALEYA MAISARAH	1211111792
BINTI NUHIZAM	

Date: 12/2/2025

Contents

Contents.....	2
Revisions.....	4
1 Project Management.....	5
1.1 Team Members.....	5
1.2 Problem statement.....	8
1.3 Project Plan.....	9
2 System Overview.....	10
2.1 Description.....	10
2.1.1 Level 0 Data Flow Diagram	11
2.2 Actors.....	12
2.3 Assumptions and Dependencies.....	14
2.4 Use Case Diagram.....	15
3 Requirements.....	16
3.1 Class Diagrams / ERD.....	16
3.2 State Diagrams.....	17
3.2.1 Visitor.....	17
3.2.2 Registered User.....	18
3.2.3 Admin.....	19
3.2.4 IT Support.....	20
4 Design.....	21
4.1 Data Dictionary.....	21
4.2 Software Architecture.....	31
4.2.1 Visitor Subsystem.....	33
4.2.2 Registered User Subsystem	34
4.2.3 Admin Subsystem.....	35
4.2.4 IT Support Subsystem	36
4.3 Main Components.....	37
4.3.1 User Management	39
4.3.2 Recipe Management	40
4.3.3 Search and Filters	45

4.3.4	Ratings.....	48
4.2.5	Favorite Recipe	51
4.2.6	Admin Panel	54
4.2.7	Technical Support	57
4.4	Deployment Diagram.....	60
5	Implementation.....	61
5.1	Development Environment.....	61
5.2	Software Integration.....	64
5.3	Database.....	66
6	Testing.....	67
6.1	Testing Strategy.....	67
6.2	Test Data.....	68
6.3	Acceptance Testing.....	73
7	Sample Screens.....	76
7.1	Visitor	76
7.1.1	Home Page	76
7.1.2	Search	78
7.1.3	Log in	79
7.1.3	Sign Up	80
7.2	Registered User	81
7.2.1	Registered User Home Page	82
7.2.2	User Profile	80
7.2.3	Edit Profile	83
7.2.4	Change Password	84
7.2.5	Create New Recipe	85
7.2.6	Favourite Recipe	86
7.2.7	My Recipe View	87
7.2.8	My Recipe Edit	88
7.2.9	My Recipe Delete	89
7.3	Admin Page	90
7.3.1	Admin Dashboard	90
7.3.2	User Management	91

7.3.3	User Management (View Details)	92
7.3.4	User Management (Suspend)	93
7.3.5	System Activity	94
7.3.6	Report Technical Issue	95
7.4	IT Support Page	96
7.4.1	IT Support Home Page	96
7.4.2	View Ticket	97
7.4.1	View Logs	98
8	Conclusion.....	99
8.1	Summary of Results	99
8.2	Problems Encountered	99
9	User Guide.....	100
9.1	User Guide	100

Revisions

Version	Primary Author(s)	Description of Version	Date Completed
SRS in Part 1(as Ver 1.0) SDS in Part 2(as Ver 2.0.X) *System Documentation in Part 3 (as Ver 3.0) Draft Type and Number	Full Name	Information about the revision. This table does not need to be filled in whenever a document is touched, only when the version is being upgraded.	00/00/00

1 Project Management

1.1 Team Members

Name	Actor/Processes
Issye Lailiyah Binti Sopingi	<ul style="list-style-type: none"> - IT Support - Full Backend Development: Designed and implemented the database schema, integrated all database operations, and built the entire backend system. - User Authentication & Management: Developed user registration, login, role-based access control, and profile updates. - Recipe Management: Created functionalities for searching, filtering, and moderating recipes. - Search & Filter System: Implemented advanced search and filtering to enhance user experience. - Data Fetching & API Integration: Developed efficient data retrieval mechanisms and API endpoints. - Frontend Assistance: Worked on UI elements, dynamic data rendering, and AJAX-based content updates. - Optimization & Security: Ensured fast database queries, secured user data, and implemented robust error handling. - Actor Interconnectivity: Linked all user roles, ensuring proper access control and functionality across different actors.
Zulaikha Afzan binti Bee Wan	<ul style="list-style-type: none"> - Admin - Data Dictionary - Software Architecture - Subsystem - Main Components - Deployment Diagram - Development Environment - Software Integration - Database - Front-End coding (styling CSS) - Back-End coding (user (CRUD Recipe & Image Handling))
Izzan Irdina Binti Husaini	<ul style="list-style-type: none"> - Registered User - Registered User - State Diagram - Class Diagram - Conclusion

	<ul style="list-style-type: none">- User Guide- Front-End coding (Website Structure (html), CSS)
Noraleya Maisarah Binti Nuhizam	<ul style="list-style-type: none">- Visitor- Testing Strategy – Developed the overall approach and methodology for testing the system.- Data Testing – Verified data integrity and functionality through comprehensive testing procedures.- Acceptance Test – Prepared and documented the acceptance criteria and test results.- Sample Screens - Documenting the sample screen- Front-end Development:- Created the user interfaces for:<ul style="list-style-type: none">o User Profile Managemento Admin Dashboardo IT Support Dashboard- Menu Options: Developed and implemented the menu navigation for all three user roles (User, Admin, IT Support).

1.2 Problem statement

Many cooking enthusiasts struggle to organize, manage, and access their personal recipe collections efficiently. They lack a centralized platform where they can save, view, and edit their favorite recipes in a user-friendly format. Additionally, finding specific recipes or filtering by categories is often time-consuming, leading to frustration. This project aims to develop a recipe management application that provides a seamless experience for users to create, store, search, and modify their personal recipe collections with intuitive features like a grid view, dedicated recipe pages, and a robust search and filter system. Other than that, it helps people who are new to cooking discover and learn recipes through an easy-to-use platform that guides them with clear instructions, categorized options, and accessible features.

1.3 Project Plan

WEEKS /TASKS	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Project Planning and requirements	X													
System design		X	X											
User registration and authentication				X	X									
Recipe management system					X	X	X							
Recipe categorization							X	X						
Recipe rating and feedback system								X	X					
Content moderation features									X	X				
Analytics reporting and system										X	X			
Testing and debugging											X	X		
User acceptance testing											X	X		
Deployment and final adjustments												X	X	

The Agile Development was chosen as agile supports iterative and incremental development, enabling frequent feedback from stakeholders and allowing flexibility to adapt to changes. This approach ensures that features are developed in manageable increments, tested thoroughly, and adjusted based on user needs.

2 System Overview

2.1 Description

Our website has been developed to offer a seamless experience for users to discover, interact with, and manage recipes online. At a high level, the major functions our website performs can be divided into several key areas that address both user needs and administrative controls.

The **user registration and authentication** process is a core feature of our website. Visitors are able to create accounts, log in, and manage their personal details securely. This function allows users to access personalized features such as saving favorite recipes and submitting new ones. Visitors transition to registered users once they create an account and authenticate themselves to access additional platform functionalities.

Another essential feature is the **recipe management system**. Registered users are the primary actors here, as they can submit, edit, delete, and search for recipes. Recipes are organized by categories to enhance navigability. This system allows users to contribute new content and interact with existing content. Admins play a supporting role in managing and moderating the content, ensuring that all submissions meet the platform's guidelines.

The **recipe rating and feedback system** allows registered users to provide ratings on recipes. This feature encourages community-driven content, allowing users to interact with recipes and influence the visibility of high-quality submissions. Admins are responsible for monitoring the feedback to ensure that content remains appropriate and adheres to our website's standards.

Given the large volume of user-generated content, **content moderation** is crucial to maintaining the integrity of our website. Admins are the main actors in this process, reviewing and managing the content to prevent any violations of our website's guidelines. IT support plays a critical role in ensuring the website's infrastructure remains robust to support content moderation efficiently.

Admin management is another vital feature of our website. Admins have the authority to oversee user activity on the platform. They can view the number of registered users, track the posts made by each user, and manage user accounts by approving, suspending, or deleting them based on platform policies. This function ensures that our website remains safe, with proper enforcement of guidelines and management of user behavior.

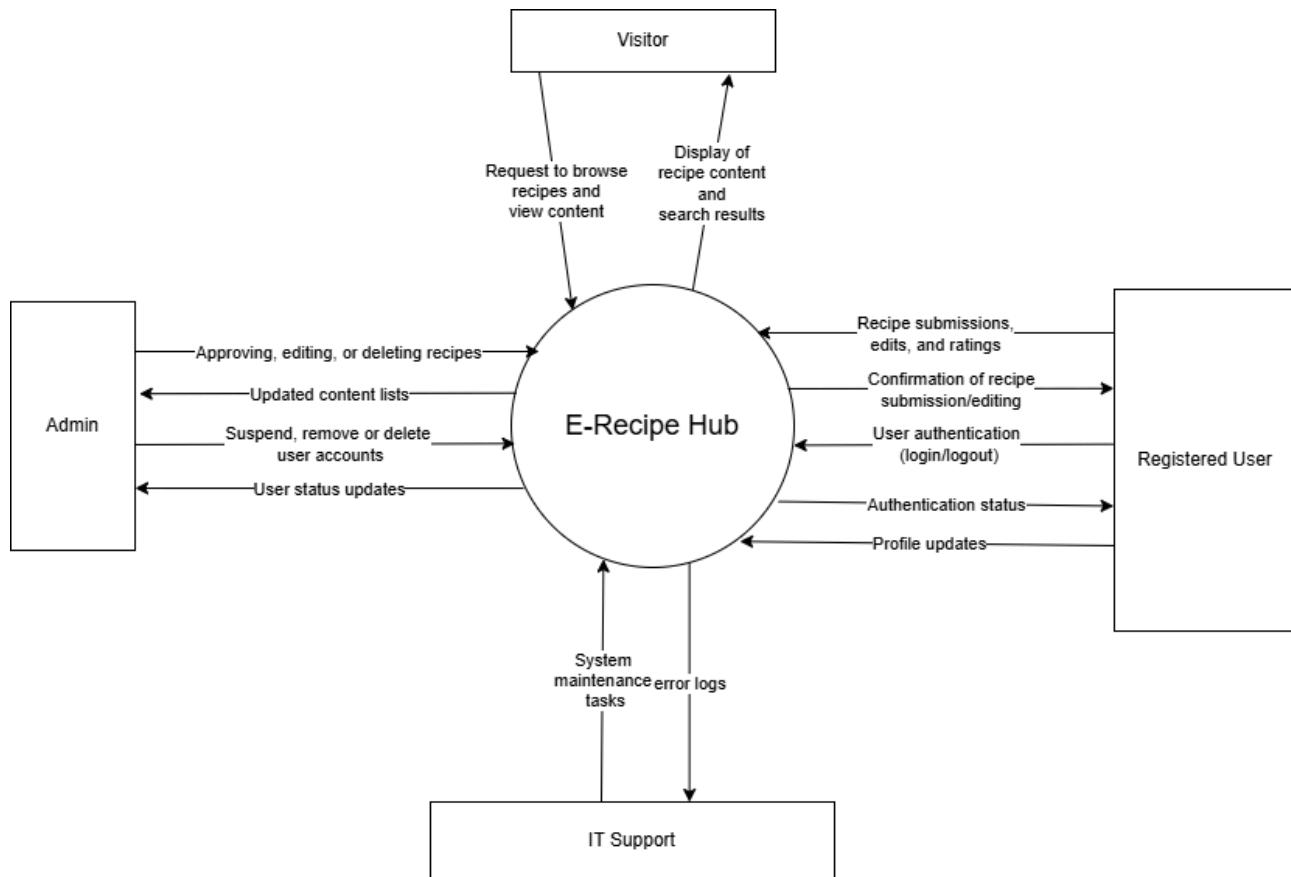
The **home page features** play a significant role in engaging users from the moment they access our website. The home page displays a selection of featured recipes, trending recipes, and highlighted chefs to keep the content fresh and relevant. Admins are responsible for curating the featured content, while visitors and registered users benefit from viewing and interacting with it.

Our website also includes **analytics and reporting** capabilities. Admins use this feature to track user activity, analyze recipe performance, and identify emerging trends. This information helps improve user engagement and ensures the platform evolves based on usage patterns. IT support is involved in maintaining the website's analytics functionality to ensure it operates effectively.

Lastly, **data security and privacy** is a fundamental feature of our website. The platform employs encryption and access control mechanisms to protect user information and ensure privacy. Registered users trust the website with their personal data, and admins along with IT support are responsible for enforcing security protocols to safeguard this sensitive information.

In conclusion, our website performs several interconnected processes to facilitate a smooth user experience, ensure the quality of content, and maintain the platform's security. These functions are executed by various actors, including visitors, registered users, admins, and IT support, all working together to create a collaborative and secure environment for culinary enthusiasts.

2.1.1 Level 0 Data Flow Diagram



2.2 Actors

Actor	Use Cases
Visitor	Visitors browse recipes Visitors view the profile of a recipe's author Visitors register for an account Visitors view recipe details Visitors filter search results Visitor search for recipes Visitor can click on a social media icon to be redirected to the recipe author's social media profile Visitor users share recipe link
Registered User	Registered users login Registered users create a recipe Registered users edit or delete a recipe Registered users save a favorite recipe Registered users share recipe link Registered users update their profile Registered users view recipe details Registered users filter search results Registered users search for recipes Registered users rate recipes Registered users see how many people have rated the recipe they posted Registered users change their password Registered users request an appeal if their account is suspended

	Registered users can click on a social media icon to be redirected to the recipe author's social media profile
	Registered user receives notification if their account is suspended
Admin	Admin login
	Admin reactivates, suspends, or deletes user accounts
	Admin monitors system activity
	Admin monitors how many people have registered
	Admin monitors how many recipes have been posted
	Admin oversees user details
	Admin receives user appeals
	Admin sends technical support requests to IT Support
IT Support	IT Support login
	IT Support receives issue tickets
	IT Support updates issue logs
	IT Support resolves technical issues

2.3 Assumptions and Dependencies

Assumptions

1. User Growth Projection

- The system assumes a steady increase in registered users, with a maximum of 100,000 active users in the first year. This assumption impacts the database structure and server capacity planning.

2. Content Moderation Needs

- It is assumed that users will adhere to platform policies, and moderation can be handled by a dedicated admin team. If content violations become excessive, automated moderation tools or AI-based filtering may need to be implemented.

3. Device and Browser Compatibility

- The website is designed to function smoothly on modern browsers (Chrome, Firefox, Edge, Safari) and mobile devices. Users relying on outdated or unsupported browsers may experience performance issues.

4. Security and Data Protection Compliance

- The system assumes that current encryption and authentication measures are sufficient to protect user data.

5. Hosting Infrastructure

- It is assumed that the cloud hosting service will provide consistent uptime and performance. Any unexpected downtime or changes in pricing models could impact website availability.

6. User Engagement with Features

- The system assumes that users will actively utilize features such as recipe submission, rating, and sharing. Low engagement levels could require feature modifications or additional incentives.

7. Availability of Content Contributors

- The platform assumes that chefs and content creators will regularly contribute recipes and interact with users. A decline in participation could reduce the diversity of available content.

Dependencies

1. Database System

- The project relies on MySQL as the primary database management system.
- phpMyAdmin will be used for database administration tasks.
- Database queries and design will ensure efficiency and reliability for managing recipes, user data, and search operations.

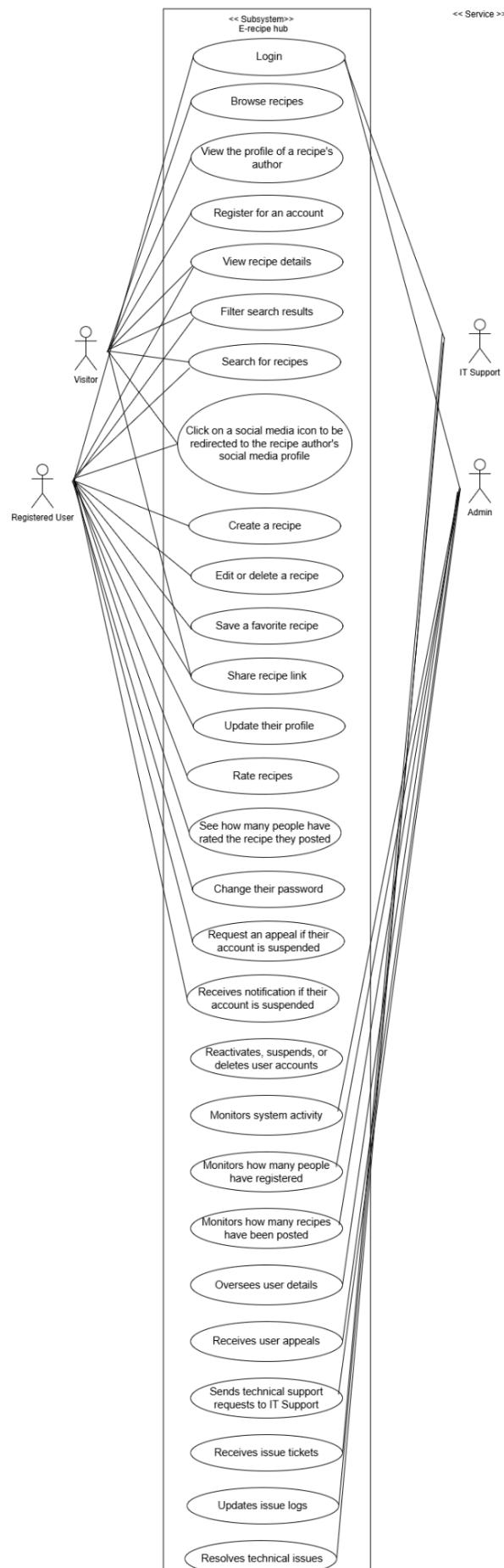
2. Web Development Stack:

- The application will use PHP for server-side development, ensuring compatibility with the hosting environment.
- HTML and CSS will structure and style the user interface.

3. Hosting Environment:

- The hosting environment will support PHP, MySQL, and phpMyAdmin.
- Server uptime and performance will meet the expected traffic and load requirements.

2.4 Use Case Diagram



3 Requirements

3.1 Class Diagrams / ERD

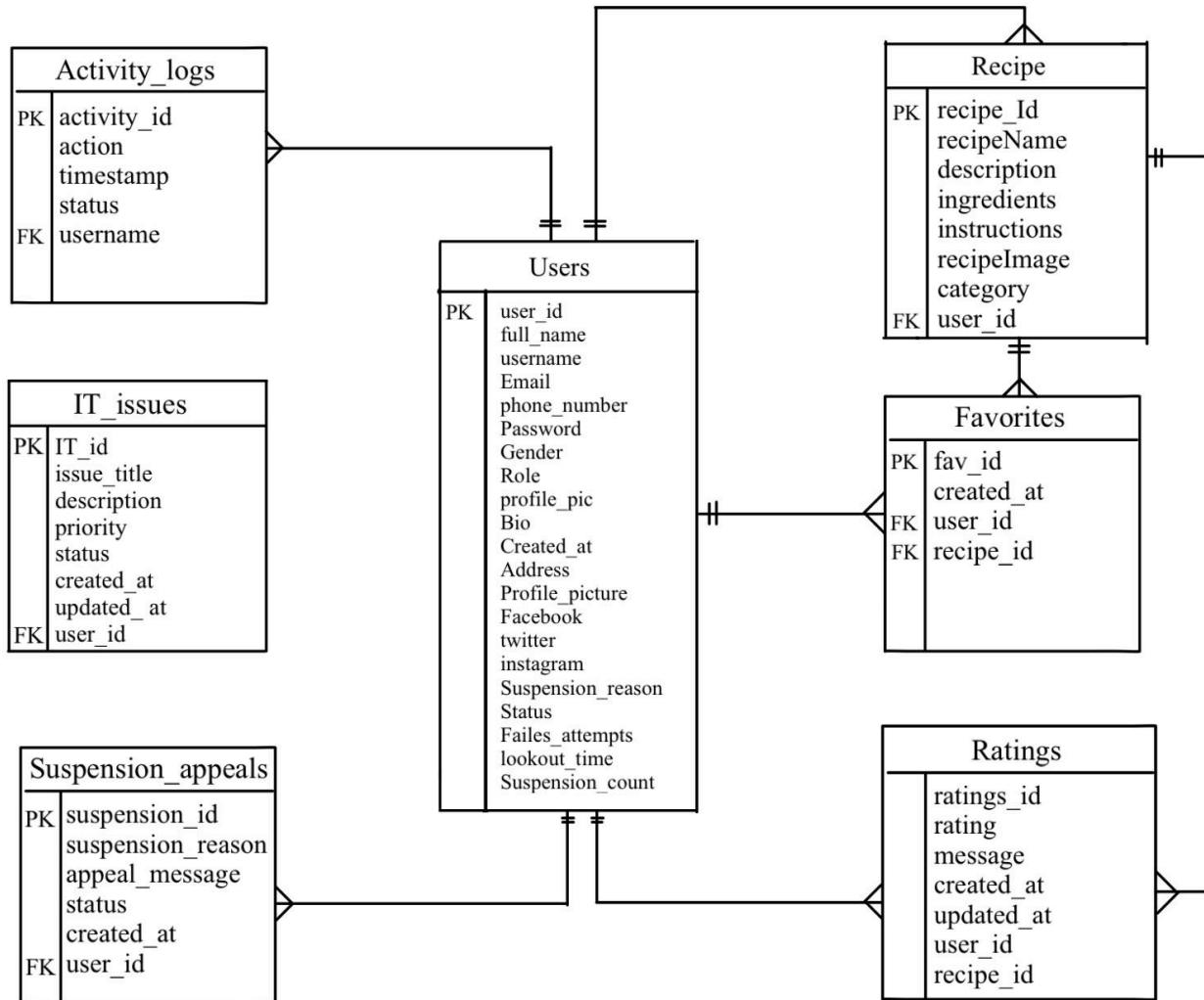


Figure 3.1 Class Diagram

3.2 State Diagrams

3.2.1 Visitor

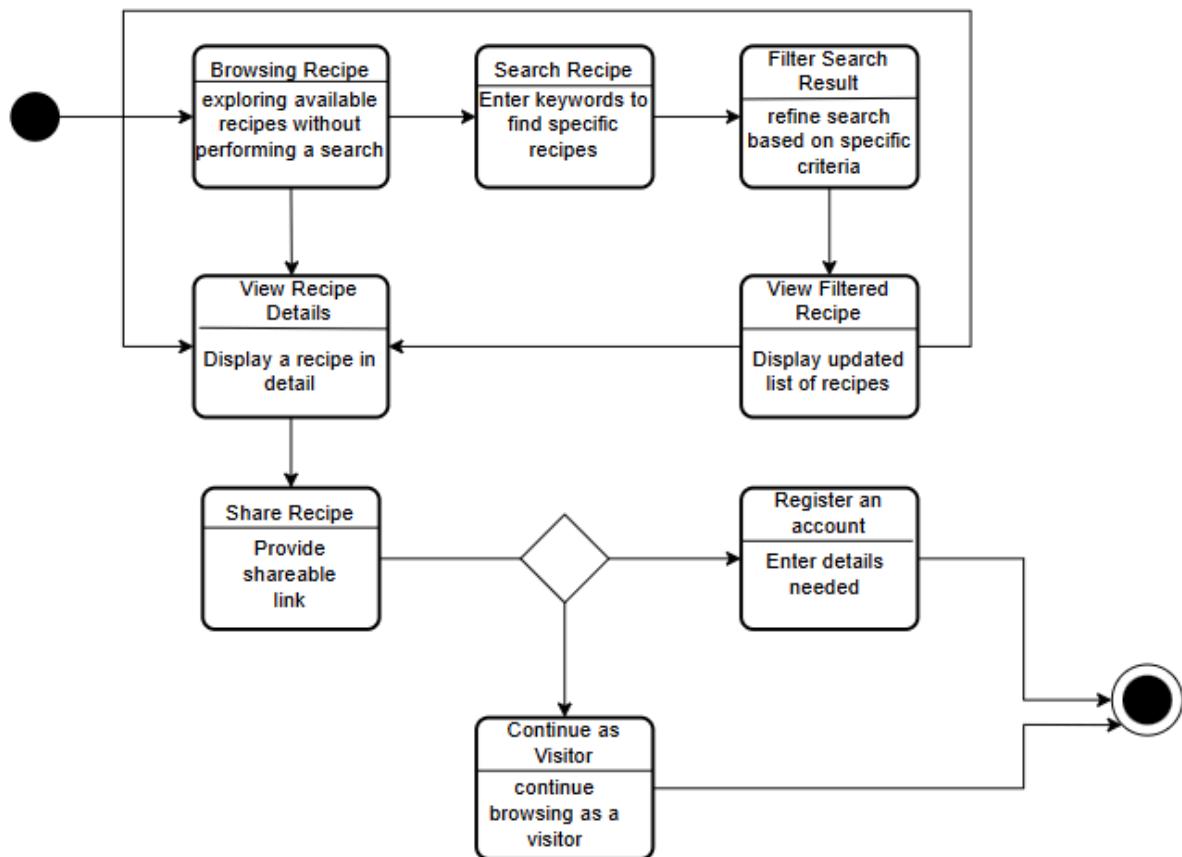


Figure 3.2.1 Visitor State Diagram

Visitors interact with the system without an account, starting with browsing or searching for recipes. When a visitor selects a recipe, they can view details, filter search results, and see a refined list of recipes. Visitors also have the option to share recipes with others. If they wish to access more features, they can attempt to register an account. Upon successful registration, they become registered users with additional privileges. If registration fails, they continue using the system as visitors.

3.2.2 Registered User

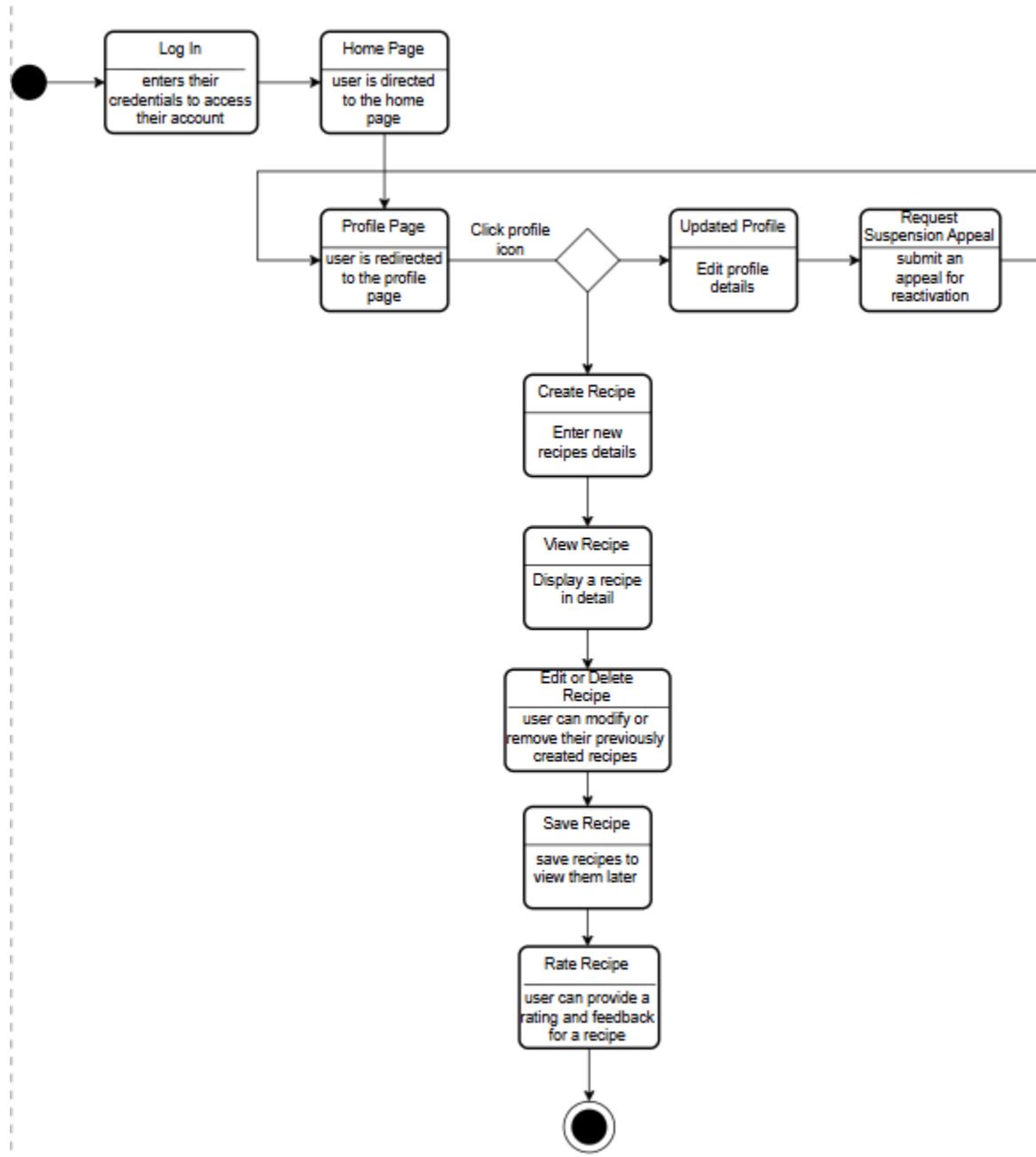


Figure 3.2.2 Registered User State Diagram

Registered users start by logging into the system, which grants them access to the dashboard. From the dashboard, they can create, edit, or delete recipes and save favorite recipes for later reference. Users can also rate recipes, update their profile, and, if necessary, request an appeal if their account has been suspended. Each interaction is designed to enhance the user experience by allowing greater personalization and control over their contributions.

3.2.3 Admin

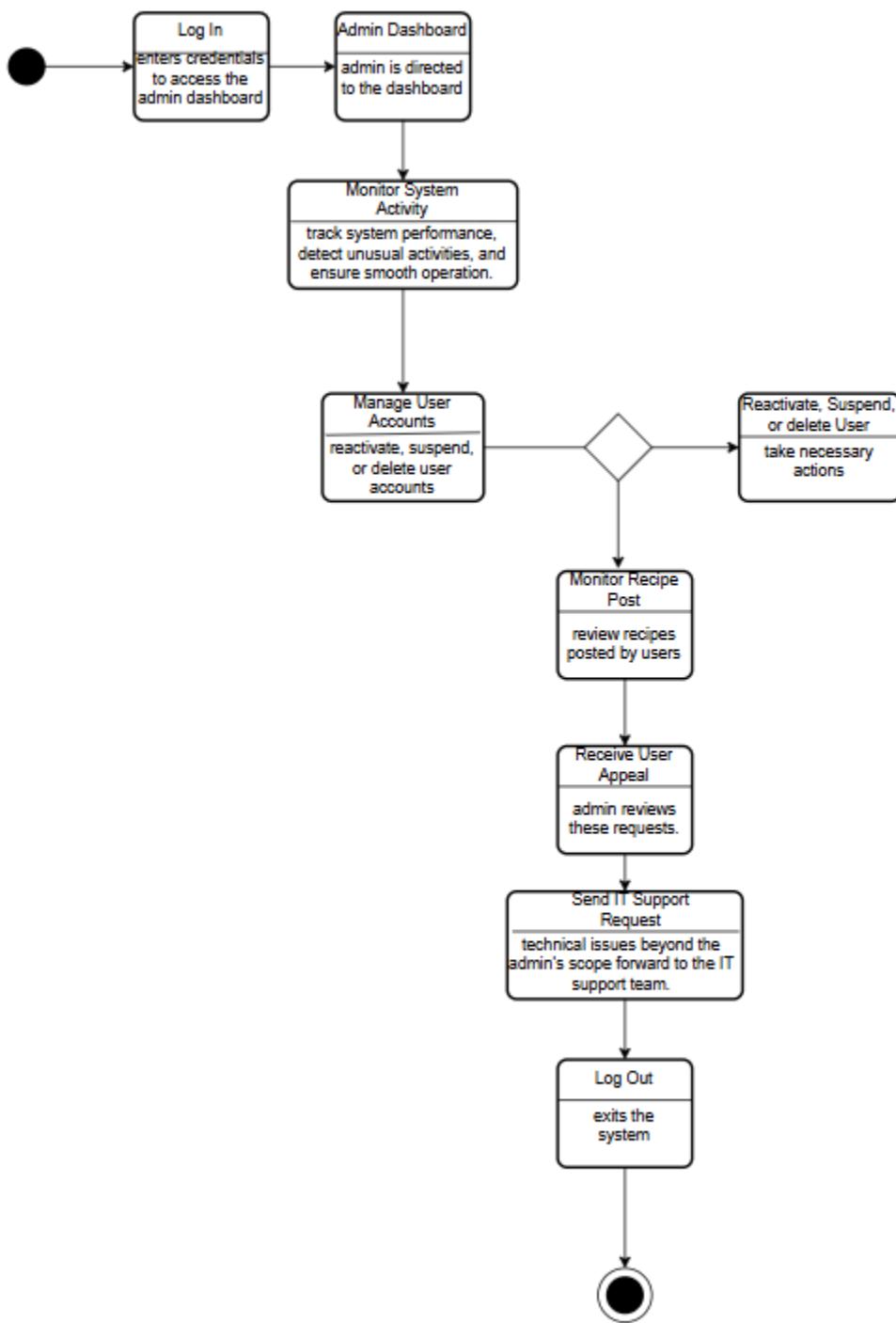


Figure 3.2.3 Admin State Diagram

Administrators begin by logging in and accessing the admin dashboard, where they monitor system activity and user interactions. Their responsibilities include managing user accounts, which involve reactivating, suspending, or deleting accounts as needed. Additionally, admins monitor recipe posts for compliance and review user appeals regarding suspensions. If there are any technical issues beyond their control, they can

escalate concerns by sending an IT support request. The admin workflow ensures smooth system operations while enforcing guidelines and user policies.

3.2.4 IT Support

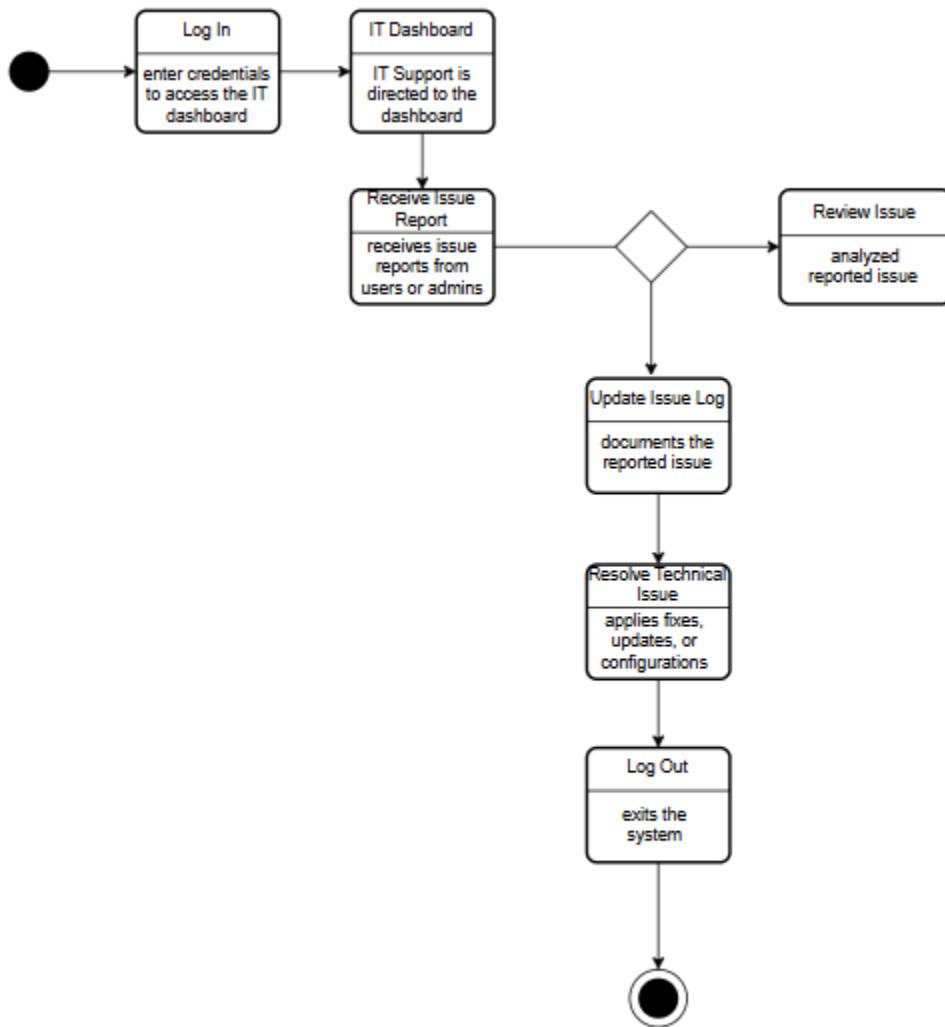


Figure 3.2.4 IT Support State Diagram

IT support personnel handle technical issues within the system. After logging in, they access the IT dashboard, where they receive issue reports submitted by users or generated by the system. They review each issue carefully, update the issue log, and proceed with resolving technical problems. Their role ensures that the system functions efficiently and any disruptions are addressed promptly. Once the necessary technical support is provided, IT staff log out, completing their workflow.

4 Design

4.1 Data Dictionary

The data dictionary outlines the structure, types, and relationships of all data elements within the Recipe Website platform. This platform supports four distinct user roles which are Registered User, Viewer, Admin, and IT Support , each with specific permissions and data access requirements. The goal of this data dictionary is to provide a clear understanding of the database schema, the attributes of each data entity, and how these entities interact within the system.

4.1.1 Users Table

The table stores important information for managing user accounts, handling authentication, and personalizing user experience on the platform. The index on user_id improves performance when querying issues related to specific users.

No.	Attribute Name	Data Type	Format	PK / FK/ Index	FK Reference Table	Description
1	id	int(11)	Auto Increment, Integer	PK		Unique identifier for each user in the system
2	full_name	varchar(255)	String	Index		Indexed column for faster queries related to Full name of the user
3	username	varchar(50)	String	Index		Indexed column for faster queries related to Username chosen by the user for login
4	email	varchar(255)	String (Email format)			User's email address for communication and notifications
5	phone_number	varchar(15)	String (Phone number)			User's contact number for verification or communication

6	password	varchar(255)	String (Hashed password)			User's encrypted password for account security
7	gender	enum	'Male', 'Female', 'Prefer not to say'			User's gender (optional field)
8	role	enum	'visitor', 'user', 'admin', 'it_support'			User's role (visitor, user, admin, IT support)
9	profile_pic	varchar(255)	String (Image file path)			Path to the user's profile picture
10	bio	text	String			A short description or biography of the user
11	created_at	timestamp	Timestamp format			Timestamp of when the user account was created
12	status	enum	'Active', 'Suspended', 'Pending'			Current status of the user account (Active, Suspended, Pending)
13	address	varchar(255)	String (Address format)			User's address for notifications or account verification
14	profile_picture	varchar(255)	String (Image file path)			Image file path for user's profile photo (duplicate)
15	facebook	varchar(255)	URL			URL to the user's Facebook profile

16	twitter	varchar(255)	URL			URL to the user's Twitter profile
17	instagram	varchar(255)	URL			URL to the user's Instagram profile
18	suspension_reason	text	String			Reason for the user's account suspension (if any)
19	failed_attempts	datetime	Integer			Count of failed login attempts for security purposes
20	lockout_time	int(11)	DateTime format			Time when the user account was locked due to failed attempts
21	suspension_count		Integer			Number of times the user has been suspended

Table 4.1.1 shown data dictionary for users

4.1.2 suspension_appeals Table

This table is used to manage user suspension appeals, allowing users to explain their situation and administrators to review the appeal and decide whether to change the status. The index on user_id improves performance when querying issues related to specific users.

No.	Attribute Name	Data Type	Format	PK / FK / Index	FK Reference Table	Description
1	id	int(11)	Auto Increment, Integer	PK		Unique identifier for each user in the system
2	user_id	int(11)	Integer	Index		Indexed column for faster queries related to the user who created the recipe
3	suspension_reason	text	String			Reason for the user's suspension, provided during the appeal
4	appeal_message	text	String			Message from the user explaining the reason or appeal for the suspension
5	status	enum	'Pending', 'Reviewed'			Current status of the appeal, either Pending or Reviewed
6	created_at	timestamp	Timestamp format			Timestamp when the appeal was created

Table 4.1.2 shown data dictionary for suspension_appeals

4.1.3 recipe Table

This table is essential for managing recipes in your system, linking each one to a user and providing information about the recipe, including ingredients, instructions, and an image. The index on user_id improves performance when querying issues related to specific users.

No.	Attribute Name	Data Type	Format	PK / FK / Index	FK Reference Table	Description
1	id	int(11)	Auto Increment, Integer	PK		Unique identifier for each recipe
2	recipeName	varchar(255)	String	Index		Name of the recipe
3	description	text	String	Index		Detailed description of the recipe
4	ingredients	text	String			List of ingredients used in the recipe
5	instructions	text	String			Step-by-step instructions for making the recipe
6	recipelImage	varchar(255)	String (Image file path)			File path to an image representing the recipe
7	category	enum	'Desserts', 'Pastries', 'Snacks', 'Malay Cuisines', 'Chinese Cuisines', 'Indian Cuisines', 'Main Course', 'Western', 'Breakfast'			Category of the recipe

8	user_id	int(11)	'visitor', 'user', 'admin', 'it_support'			Indexed column for faster queries related to the user who created the recipe
---	---------	---------	---------------------------------------------------	--	--	---------------------------------------------------------------------------------------------

Table 4.1.3 shown data dictionary for recipe

4.1.4 it_issues Table

The it_issues table tracks IT-related issues reported by users. It links to the users table via the user_id (indexed for optimized queries). The table allows to store issue details, priority levels, and resolution status while keeping track of timestamps for creation and updates. The index on user_id improves performance when querying issues related to specific users.

No.	Attribute Name	Data Type	Format	PK / FK / Index	FK Reference Table	Description
1	id	int(11)	Auto Increment, Integer	PK		Unique identifier for each issue record
2	user_id	int(11)	Integer	Index		Indexed column, linking to the users table (optimized for fast lookup)
3	issue_title	varchar(255)	String			Detailed description of the recipe
4	description	text	String			Title or subject of the IT issue
5	priority	enum	'Low', 'Medium', 'High', 'Critical'			Detailed description of the IT issue
6	status	enum	'Resolved', 'Not Resolved'			Priority level of the issue
7	created_at	timestamp	Timestamp format			Timestamp when the issue was created
8	updated_at	timestamp	Timestamp format			Timestamp when the issue was last updated

Table 4.1.4 shown data dictionary for it_issues

4.1.5 favorites Table

The favorites table keeps track of which users have favorited which recipes. By indexing user_id and recipe_id, the system optimizes search queries based on these columns.

No.	Attribute Name	Data Type	Format	PK / FK / Index	FK Reference Table	Description
1	id	int(11)	Auto Increment, Integer	PK		Unique identifier for each favorite entry
2	user_id	int(11)	Integer	Index		Indexed column, linking to the users table (optimized for fast lookup)
3	recipe_id	int(11)	Integer	Index		Indexed column, linking to the recipes table (optimized for fast lookup).
4	created_at	timestamp	Timestamp format			Timestamp when the favorite was added.

Table 4.1.5 shown data dictionary for favorites

4.1.6 activity_logs Table

The activity_logs table tracks actions performed by admins, including details on the user, the action taken, and the status of that action. The indexed columns user, action, and status help optimize searches and queries related to these fields, allowing administrators to efficiently filter through activity logs based on users, actions, or statuses. The timestamp column ensures that the time of each action is recorded, helping administrators track when specific actions were performed.

No.	Attribute Name	Data Type	Format	PK / FK / Index	FK Reference Table	Description
1	id	int(11)	Auto Increment, Integer	PK		Unique identifier for each activity log entry
2	user	varchar(100)	String	Index		Indexed column for the user who performed the action
3	action	varchar(255)	String	Index		Indexed column for the action performed
4	timestamp	datetime	DateTime format			Timestamp when the activity occurred
5	status	enum	'Failed', 'Updated', 'Logout', 'Critical', 'Success'	Index		Indexed column for the status of the action

Table 4.1.6 shown data dictionary for activity_logs

4.1.7 ratings Table

The ratings table is designed to store user ratings for recipes, with important fields for identifying which recipe was rated, which user left the rating, and their rating score. The indexing on recipe_id and user_id ensures efficient querying when fetching ratings for a specific recipe or user.

No.	Attribute Name	Data Type	Format	PK / FK / Index	FK Reference Table	Description
1	id	int(11)	Auto Increment, Integer	PK		Unique identifier for each rating record
2	recipe_id	int(11)	Integer	Index		Indexed column to speed up queries related to specific recipes
3	user_id	int(11)	Integer	Index		Indexed column to speed up queries related to specific users
4	rating	tinyint(4)	Integer (1-5)			Rating score (e.g., 1 to 5) given by the user for the recipe
5	message	text	String			Optional message or review left by the user for the recipe
6	created_at	datetime	DateTime format			Timestamp when the rating was created
7	updated_at	datetime	DateTime format			Timestamp when the rating was last updated.

Table 4.1.7 shown data dictionary for ratings

4.2 Software Architecture

The customer will use Chrome, Browser, and Google as an example to enter our e-recipe website. HTML, CSS, and JavaScript are used to build the user interface of the web application and handle user interactions. The web server is software that handles incoming HTTP requests and returns the appropriate response. The file system refers to the organization and structure of the files and directories that make up the e-recipe website. The file system architecture can vary depending on the framework or language used for the web application. The database is used to store and manage the data for the website. We use MySQL as our database to store all the data related to recipes, user information, ratings, and other essential details for our e-recipe platform.

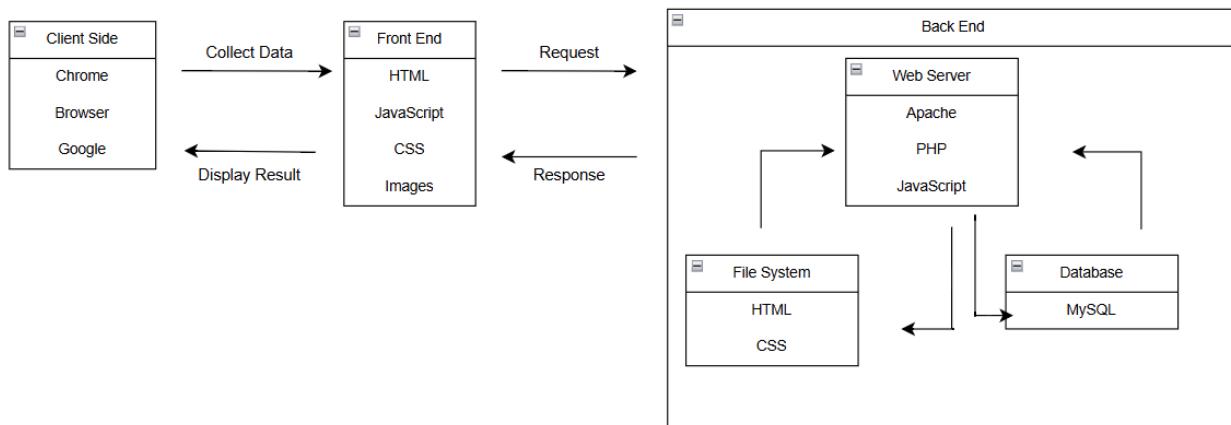


Figure 4.2 shown software Architecture Diagram

Subsystem	Team members
Visitor Subsystem	NORALEYA MAISARAH BINTI NUHIZAM
User Subsystem	IZZAN IRDINA BINTI HUSAINI
Admin Subsystem	ZULAIKHA AFZAN BINTI BEE WAN
IT Support Subsystem	ISSYE LAILIYAH BINTI SOPINGI

Table 4.2 shown the separation of subsystems

The diagram represents the subsystems of the e-recipe platform, illustrating the roles and interactions of various components. The E-recipe Hub is the core system hosting all functionalities. Visitors can browse recipes and register as users. Once registered, users can log in and access functionalities like browsing, rating, sharing, saving, editing, or deleting their own recipes, as well as creating new ones. Admins have oversight capabilities, including managing user accounts (approve, suspend, delete, view), viewing system activity, and reporting technical issues. The IT Support subsystem is responsible for resolving technical issues, viewing the issues log, and exporting the log to CSV for further analysis. Each subsystem ensures seamless interaction within the platform, allowing for efficient management, user interaction, and issue resolution.

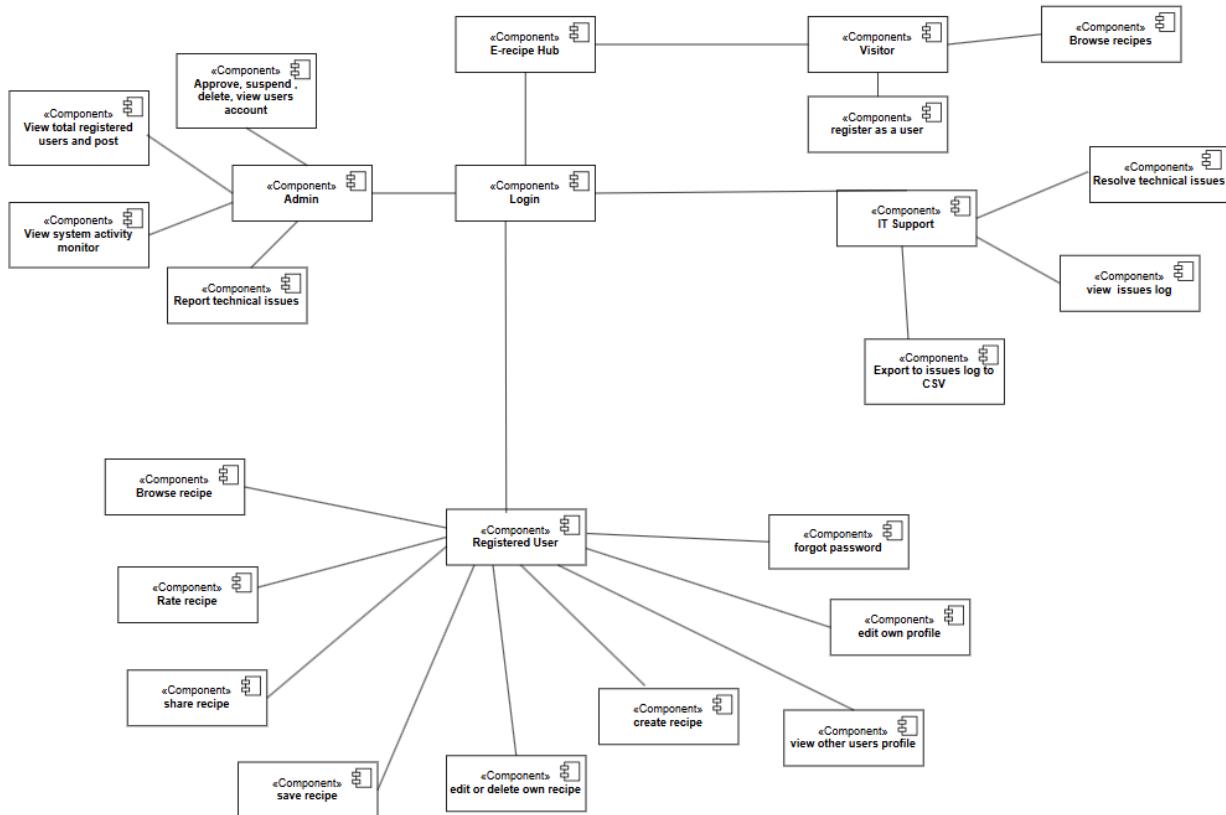


figure 4.2 shown the main subsystem

4.2.1 Visitor Subsystem

The visitor subsystem is designed for users who access the platform without logging in. It allows visitors to browse recipes, providing a preview of the platform's content and functionality. Additionally, this subsystem includes the user registration process, enabling visitors to transition into registered users. This subsystem ensures a seamless user experience for first-time or casual users while encouraging them to engage more deeply with the system.

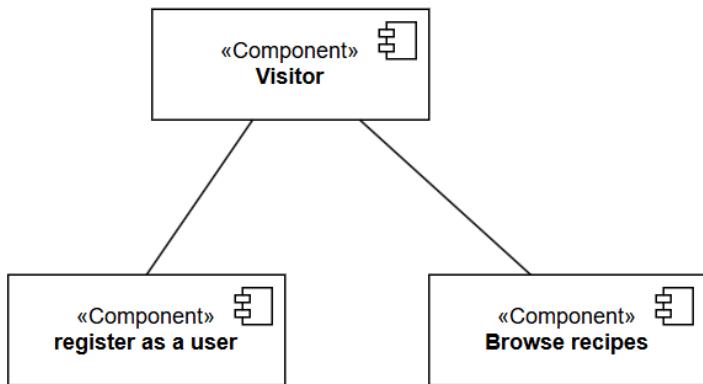


figure 4.2.1 shown the visitor subsystem

4.2.2 Registered User Subsystem

This diagram outlines the subsystems and components available to a Registered User on the e-recipe platform. After logging in, the registered user can perform various actions such as browsing and rating recipes, sharing and saving their own recipes, and editing or deleting their recipes. They can also create new recipes and view or edit their own profile. Additionally, users have the ability to view other users' profiles and can reset their password if needed through the "Forgot Password" feature. These components provide a comprehensive set of functionalities for registered users to interact with the platform and manage their content.

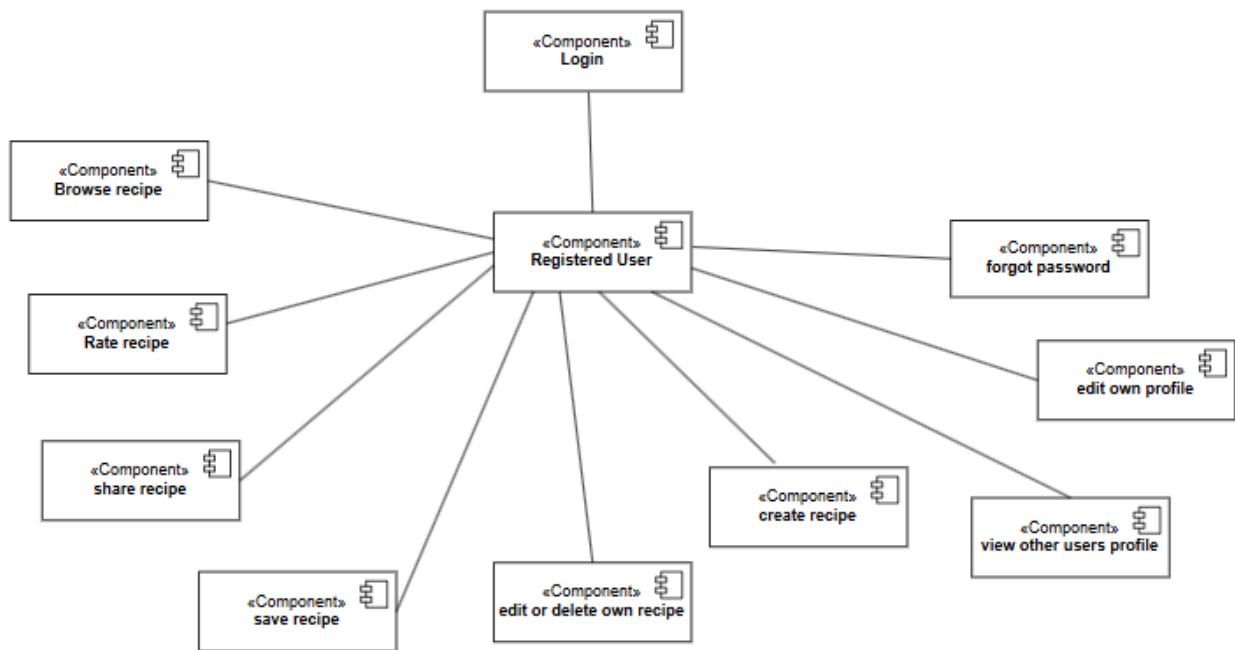


figure 4.2.2 shown the registered user subsystem

4.2.3 Admin Subsystem

This diagram illustrates the components available to the Admin role in the e-recipe platform. After logging in, the admin can perform several administrative tasks, including viewing the total number of registered users and posts on the platform, and monitoring system activity. The admin also has the authority to approve, suspend, delete, and view user accounts, managing user access and content. Additionally, the admin can report technical issues, ensuring that the platform runs smoothly and efficiently by addressing any operational challenges. These components empower the admin to manage the platform effectively.

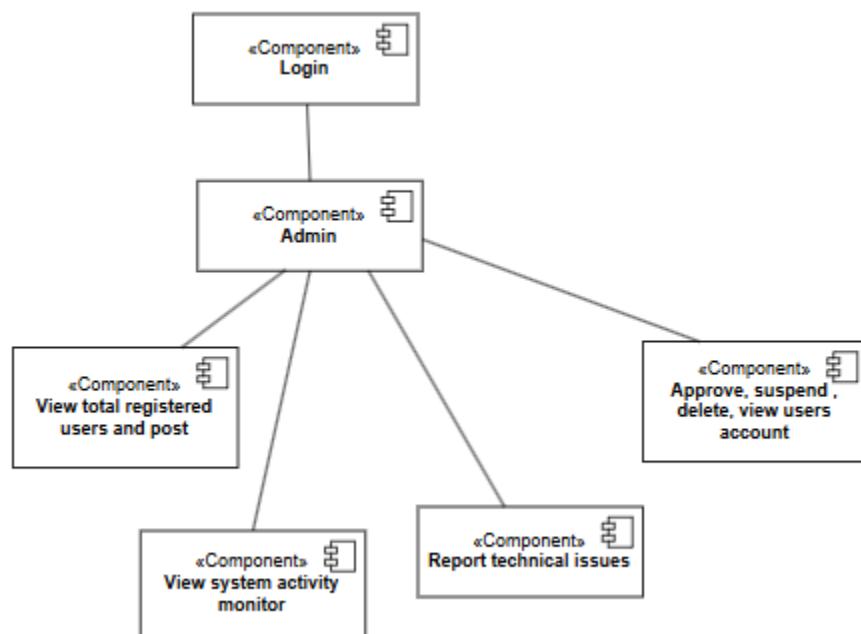


figure 4.2.3 shown the Admin subsystem

4.2.4 IT Support Subsystem

This diagram represents the components available to the IT Support role in the e-recipe platform. After logging in, the IT support team has access to three key functions: they can view the issues log, which contains a record of all technical problems reported by the admin, and resolve those issues. Additionally, they have the ability to export the issues log to CSV, allowing them to analyze or share the technical issues in a format that's easy to manipulate. These components allow the IT support team to manage, track, and address technical challenges effectively.

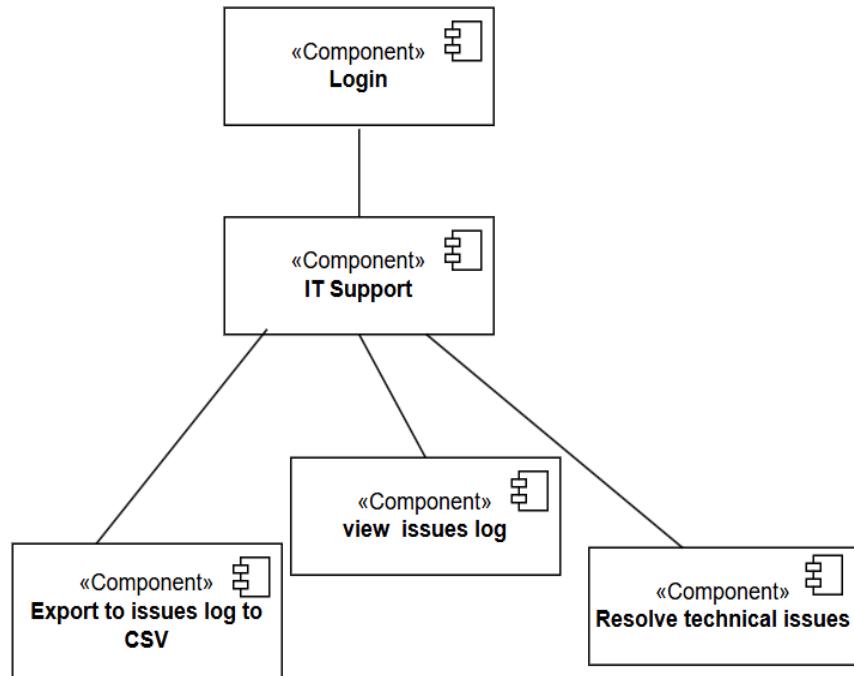


figure 4.2.4 shown the IT Support subsystem

4.3 Main Components

The e-recipe website consists of several main components that work together to provide a seamless experience for users, admins, and IT support. These components can be divided into modules, classes, and packages to ensure modularity, maintainability, and scalability. Below is a description of each main component and how they relate to the subsystems.

Component	Subsystem	Description
User Management	Frontend, Backend, Database	Includes Login, Signup, and User Profile Management functionalities, allowing users to register, log in, and update their profiles. Connected to the Users Table in the Database for storing credentials and user data.
Recipe Management	Frontend, Backend, Database, File System	Handles the creation, viewing, editing, and deletion of recipes. Users can input new recipes via the NewRecipe.php form, view them via the view_recipe.php page, and manage them in the recipe Table in the Database. Image uploads are stored in the File System.
Search and Filters	Frontend, Backend, Database	Users and visitors can search for recipes using keywords, categories, or ingredients. The Backend processes the search query, and the recipe Table is queried for matching records.
Ratings	Frontend, Backend, Database	Users can rate and review recipes, which are stored in the Ratings Table. Users can update their reviews via the edit_recipe.php page if allowed.
Favorite Recipe	Frontend , Backend, Database	Users can save recipes to their favorites, which are stored in the Favorites Table.

		The saved recipes are displayed on the user's favorite recipes page with options to view the full recipe details.
Admin Panel	Backend, Database	Admins can manage users, recipes, and reported issues through the admin.php and admin_review_appeals.php pages. The Admin subsystem is integrated with the Database for user and recipe management.
Technical Support	Backend, Database	T Support staff can manage technical issues using the ITSupportviewlogs.php and ITSupportViewTicket.php pages. Issues are logged in the Technical Issues Table in the Database and monitored by IT Support.

table 4.3 shown the Component Table

4.3.1 User Management

The User Registration Component is a crucial part of the e-recipe platform that allows users to create an account and gain access to personalized features, such as saving and managing recipes. This component includes a registration form where users input their full name, username, email, phone number, password, and gender. The form is validated to ensure that all fields are completed correctly and that the password matches the confirm password field. Additionally, it checks if the provided username or email already exists in the Database. If any validation fails (e.g., mismatched passwords or existing account details), appropriate error messages are displayed. If the validation is successful, the user's details are saved securely in the Database, with the password encrypted for security. Upon successful registration, a success message is shown, and the user is redirected to the homepage after a short delay. This component ensures that only valid users are able to access the platform and that sensitive information, such as passwords, is securely handled.

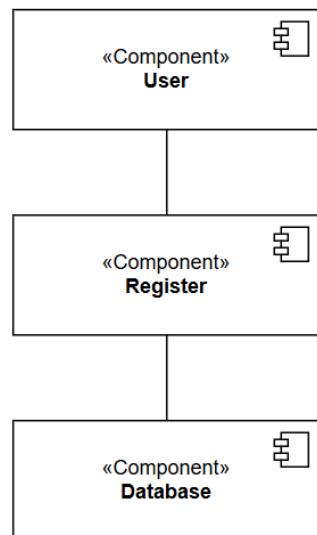


figure 4.3.1.1 shown the User Management Component Diagram

Pseudocode :

```
1  START register()
2
3      DISPLAY Registration Form to User
4      USER enters details: Full Name, Username, Email, Phone Number, Password, Confirm Password, and Gender
5
6      IF Submit Button is clicked:
7          INPUT User's Details (full_name, username, email, phone_number, password, confirm_password, gender)
8
9          VALIDATE the input:
10             - Check if "password" matches "confirm_password"
11             - Check if username or email already exists in the database
12             - Validate if all fields are filled correctly
13
14         IF password does not match confirm_password:
15             DISPLAY error message: "Passwords do not match. Please try again."
16             END registration
17
18         IF username or email already exists:
19             DISPLAY error message: "Username or email is already taken."
20             END registration
21
22         IF validation passes:
23             - Save User's Details in Database (full_name, username, email, phone_number, password, gender)
24             - Encrypt the password before saving
25
26             DISPLAY success message: "Account registered successfully!"
27
28             AFTER 3 seconds, Redirect User to 'index.php' (home page)
29
30     ELSE:
31         DISPLAY Registration Form again
32
33 END
```

figure 4.3.1.2 shown the User Management pseudocode

Activity diagram :

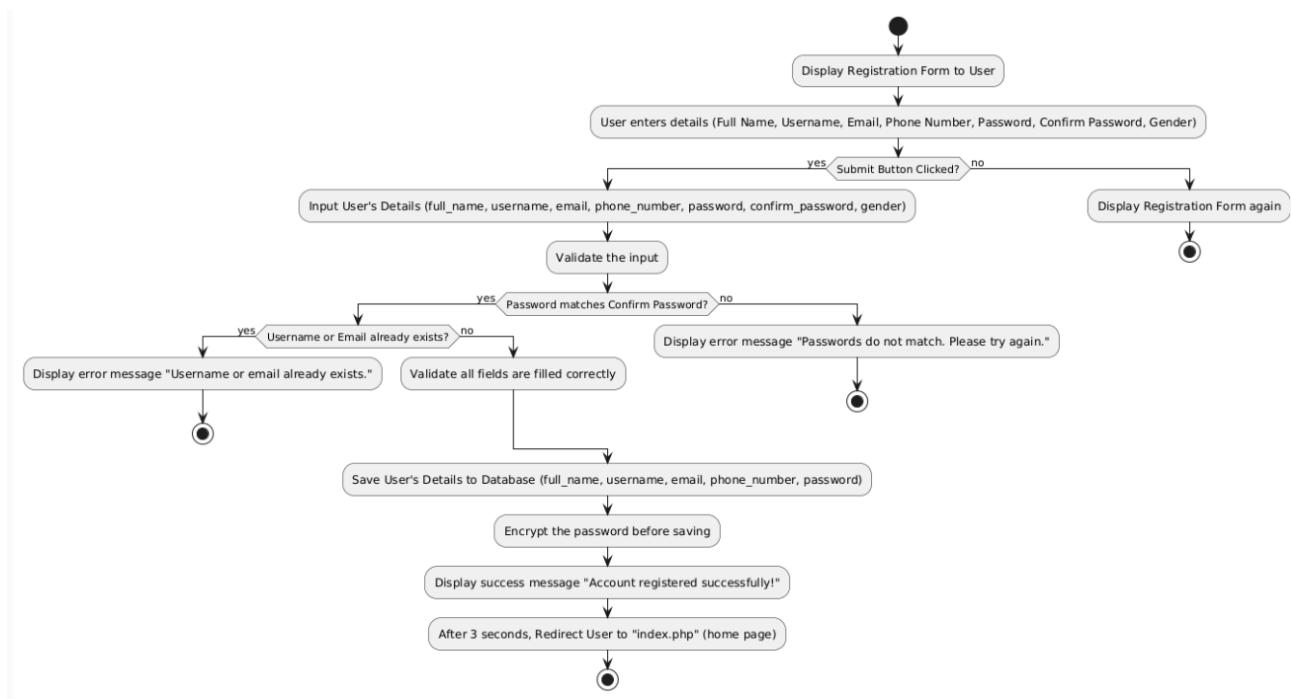


figure 4.3.1.3 shown the User Management activity diagram

4.3.2 Recipe Management

The Recipe Management Component is a key functionality of the e-recipe platform, allowing registered users to create new recipes, view existing ones, update recipe details, and delete recipes they no longer want to keep. When creating a new recipe, the component accepts the recipe's title, ingredients, instructions, preparation time, and optional image uploads. If the user decides to update an existing recipe, they can edit any of these fields, and the changes are saved back into the Database. The component ensures that all data is validated (e.g., required fields are filled, ingredients and instructions are provided) and interacts with the Database to store or modify the data. The File System manages the storage of images, and their paths are stored in the database for easy retrieval when displaying the recipe. The Recipe Management component is integrated with the Frontend, allowing users to interact with the system through a user-friendly interface, and with the Database to store, update, or remove recipe records.

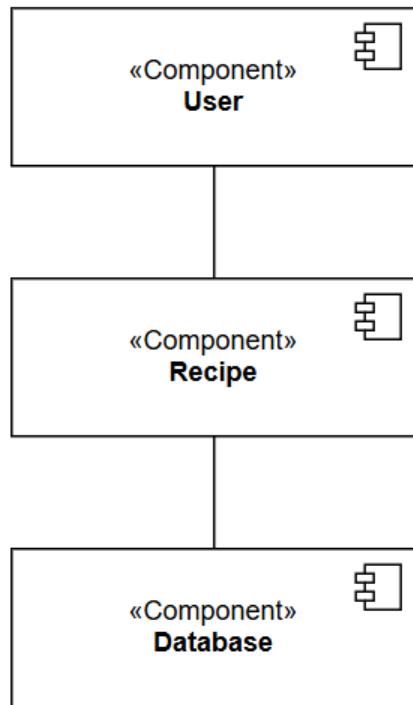


figure 4.3.2.1 shown the Recipe Management Component Diagram

Pseudocode :

```
1  START Recipe Management()
2
3      DISPLAY Recipe Management Menu
4
5      IF User selects "Create New Recipe":
6          INPUT Recipe Details (title, ingredients, instructions, prep_time, image)
7
8          VALIDATE Recipe Input:
9              - Check if title, ingredients, and instructions are provided
10             - Validate image (if uploaded)
11
12         IF Validation fails:
13             DISPLAY error message: "Please fill in all required fields"
14             RETURN to Recipe Management Menu
15
16         IF Validation passes:
17             - Save Recipe details to the Database
18             - Save image to File System (if provided), and store image path in Database
19             DISPLAY success message: "Recipe added successfully"
20
21     IF User selects "Edit Recipe":
22         DISPLAY list of User's Recipes
23         INPUT Recipe ID to edit
24
25         Retrieve Recipe from Database using Recipe ID
26
27         INPUT New Recipe Details (title, ingredients, instructions, prep_time, image)
28
29         VALIDATE Recipe Input:
30             - Check if new data is valid
31
32         IF Validation fails:
33             DISPLAY error message: "Invalid data, please check your inputs"
34             RETURN to Recipe Management Menu
35
36         IF Validation passes:
37             - Update Recipe in the Database
38             - If new image is uploaded, update image path in Database and store in File System
39             DISPLAY success message: "Recipe updated successfully"
40
41     IF User selects "Delete Recipe":
42         DISPLAY list of User's Recipes
43         INPUT Recipe ID to delete
44
45         CONFIRM Recipe Deletion
46
47         IF confirmed:
48             - Delete Recipe from Database
49             - Delete image from File System (if associated)
50             DISPLAY success message: "Recipe deleted successfully"
51
52         | DISPLAY Recipe Management Menu
53
54 END
```

figure 4.3.2.2 shown the Recipe Management Component pseudocode

activity diagram :

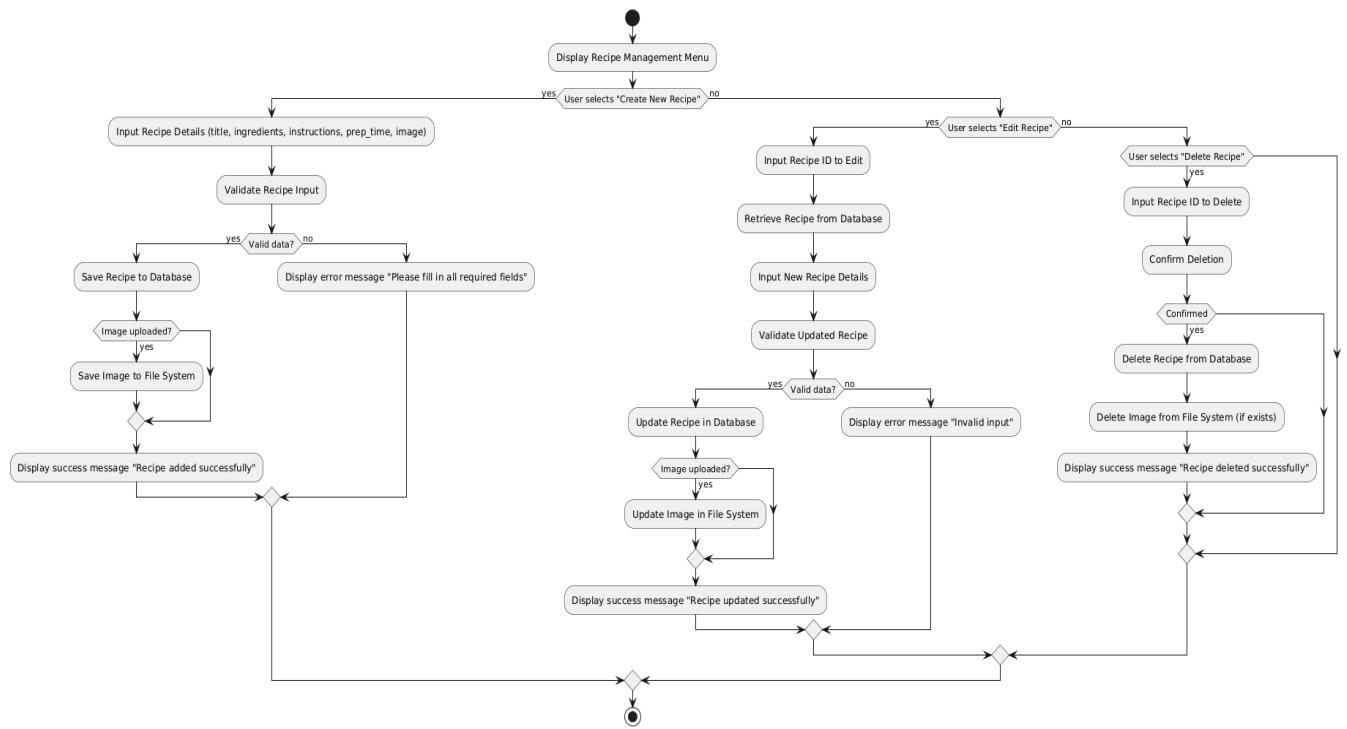


figure 4.3.2.3 shown the Recipe Management Component Activity Diagram

4.3.3 Search and Filters

The Search and Filters Component is essential for helping users quickly find recipes that match their interests. It allows users to enter a search term (such as the recipe name) and filter results by categories like Desserts, Snacks, or Main Course. When a user submits the form, the backend receives the search query and filter category, then builds an SQL query to search the database for recipes. The database stores recipes along with their categories, descriptions, and image paths. If a search term is entered, it filters the recipes by the `recipeName` field using the `LIKE` operator. If a category is selected, it filters the results based on the `category` field. The backend then returns the filtered results, and the frontend displays the matching recipes in an organized view. This component enhances the user experience by allowing efficient and targeted searches across a wide array of recipes.

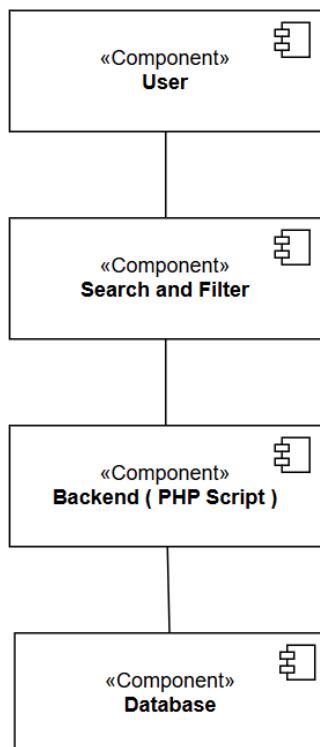


figure 4.3.3.1 shown the search and filters component diagram

Pseudocode :

```
1  START Search and Filter Recipes()
2
3      DISPLAY Search Bar and Category Filter
4
5      USER enters search query and selects category
6
7      IF "Submit" is clicked:
8          INPUT search query (query) and selected category (category)
9
10     BUILD SQL Query:
11         - SELECT recipes from the database
12         - If query is provided, filter recipes by recipeName
13         - If category is provided and not 'all', filter recipes by category
14
15     PREPARE SQL query
16     BIND search query and category (if applicable) to SQL query
17
18     EXECUTE SQL query
19
20     FETCH matching recipes from the Database
21
22     IF results are found:
23         DISPLAY the results (recipe name, description, image)
24     ELSE:
25         DISPLAY "No results found" message
26
27     ELSE:
28         DISPLAY Search and Filter options again
29
30 FND|
```

figure 4.3.3.2 shown the search and filters component pseudocode

Activity diagram :

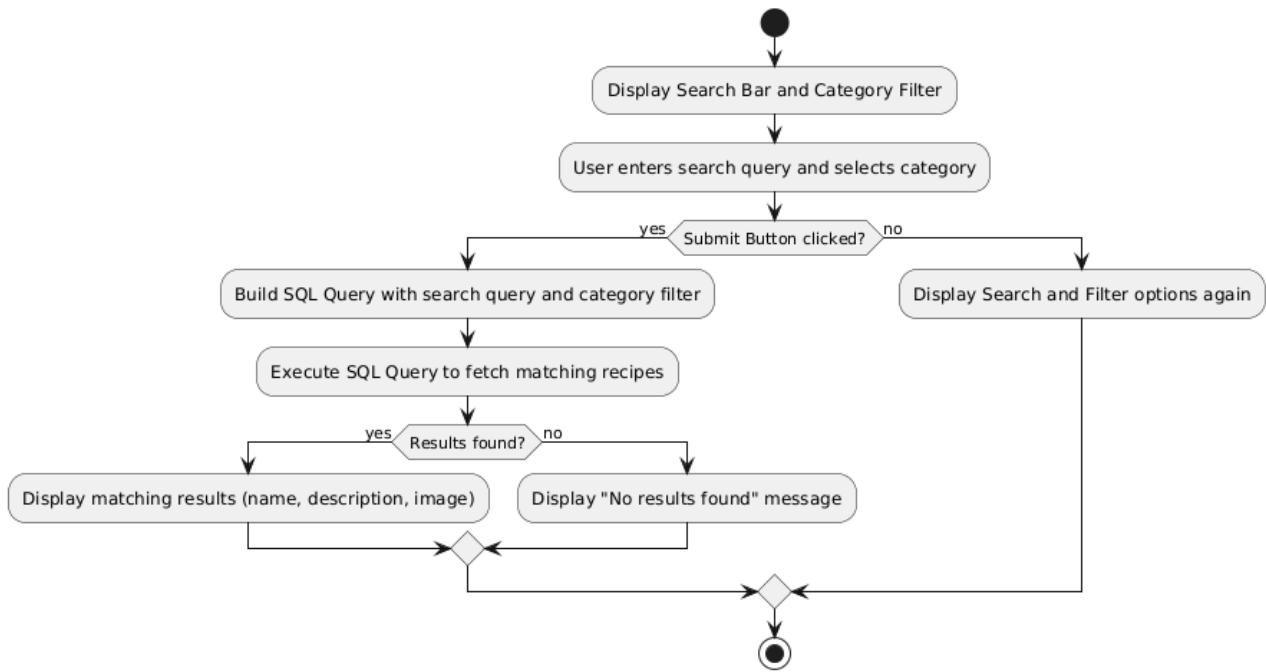


figure 4.3.3.3 shown the search and filters component activity diagram

4.3.4 Ratings

The Ratings Component is responsible for collecting, storing, and displaying ratings for recipes. Users can rate a recipe, and their rating is saved in the database under the ratings table, which stores recipe_id, user_id, and the rating value. When a user submits a rating, the system checks if the user has already rated the recipe; if they have, the rating is updated. If the user hasn't rated the recipe, a new entry is created. After each rating submission, the system calculates the average rating for the recipe by querying all ratings associated with that recipe. This average rating is then displayed to the user. The system ensures that the average rating is always up-to-date, and by using the on duplicate key update SQL query, it handles rating updates efficiently. This component enhances the user experience by providing feedback on how well-received a recipe is based on the ratings of other users.

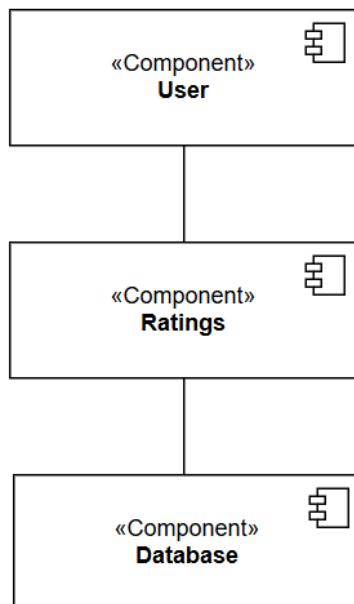


figure 4.3.4.1 shown the ratings component diagram

pseudocode :

```
1  START Rate Recipe()
2
3      USER selects a rating for a recipe
4
5      IF data (recipe_id and rating) is valid:
6          GET recipe_id, rating, and user_id (from session)
7
8          CHECK if user has already rated the recipe:
9              IF YES:
10                  UPDATE the existing rating in the Ratings table
11
12              ELSE:
13                  INSERT the rating into the Ratings table
14
15          CALCULATE the new average rating for the recipe:
16              SELECT the average rating from all ratings for the recipe
17              ROUND the average rating to 1 decimal place
18
19          DISPLAY success message with new average rating
20
21      ELSE:
22          DISPLAY error message: "Invalid data"
23  END|
```

figure 4.3.4.2 shown the ratings pseudocode

Activity Diagram :

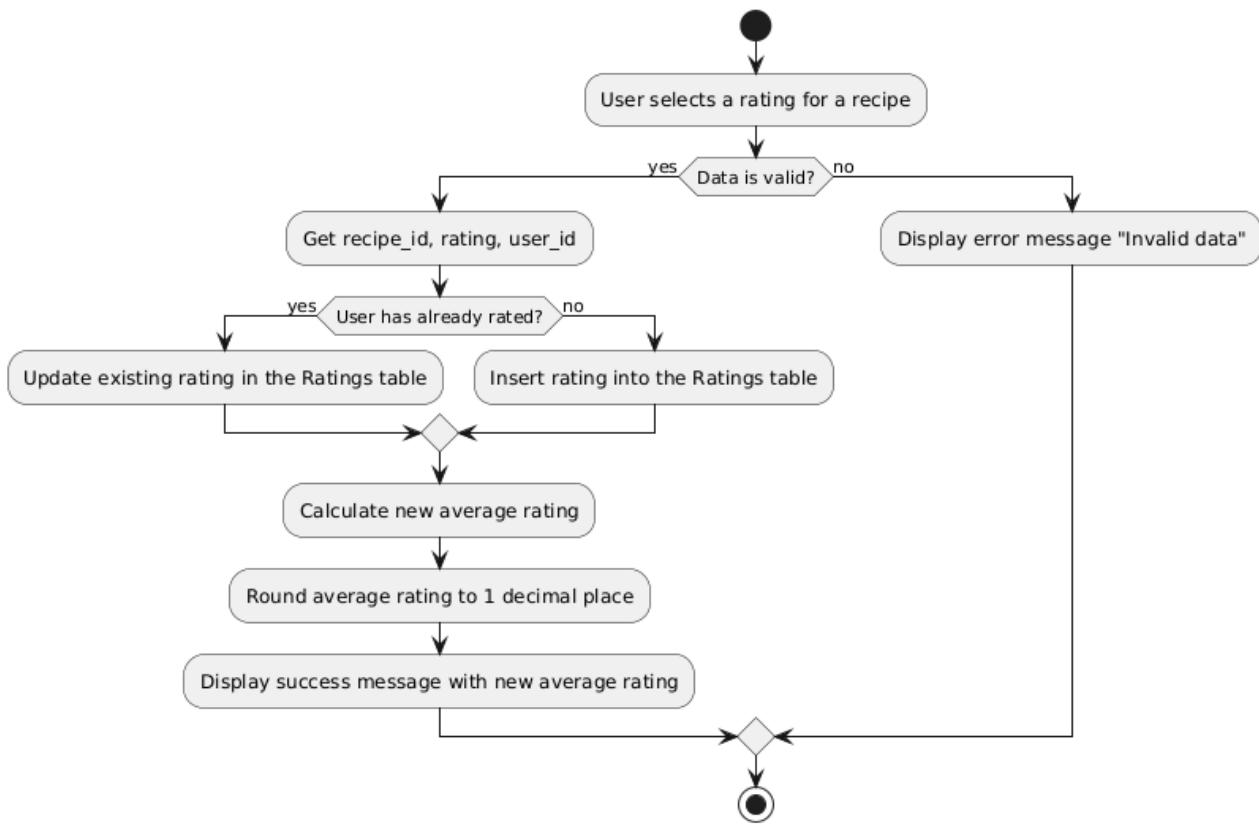


figure 4.3.4.3 shown the ratings activity diagram

4.3.5 Favorite Recipe

The Favorite Recipe Component allows registered users to view and manage their saved recipes. Users can add recipes to their favorites and view them later on the "My Favorite Recipes" page. This component retrieves the user's favorite recipes from the Database by querying the Favorites Table, which stores the relationships between users and their favorite recipes. The recipe details (including name, image, and description) are displayed dynamically in a user-friendly interface. Users can click on a favorite recipe to view its detailed page. If no recipes are saved, a message is shown prompting users to start saving their favorite recipes. This component enhances the user experience by providing easy access to their most liked recipes.

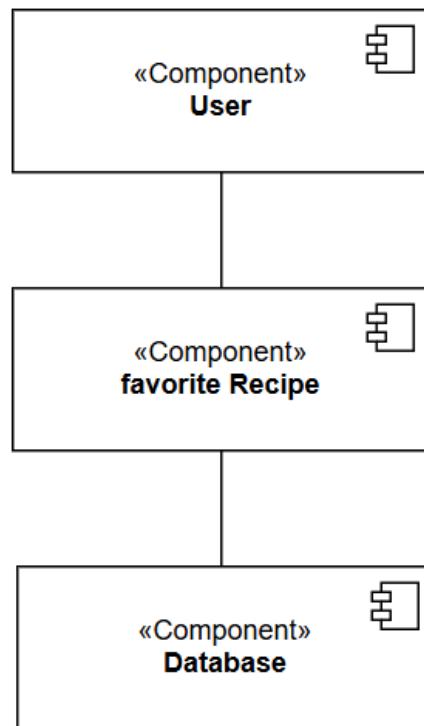


figure 4.3.5.1 shown the favorite recipe component diagram

pseudocode :

```
1  START Favorite Recipe Management()
2
3      USER clicks on "Favorites" page
4
5      IF user is logged in:
6          FETCH User's favorite recipes from the database:
7              - Retrieve recipe details (name, image, description) from Recipes Table
8              - Retrieve user's favorites from Favorites Table
9              - Display the recipes to the user
10
11     ELSE:
12         REDIRECT user to login page
13
14     IF no favorite recipes are found:
15         DISPLAY message: "No favorite recipes yet. Start saving your favorites!"
16
17     IF User clicks on a recipe:
18         REDIRECT user to the Recipe Details page for that specific recipe
19
20 END|
```

figure 4.3.5.2 shown the favorite recipe component pseudocode

Activity diagram :

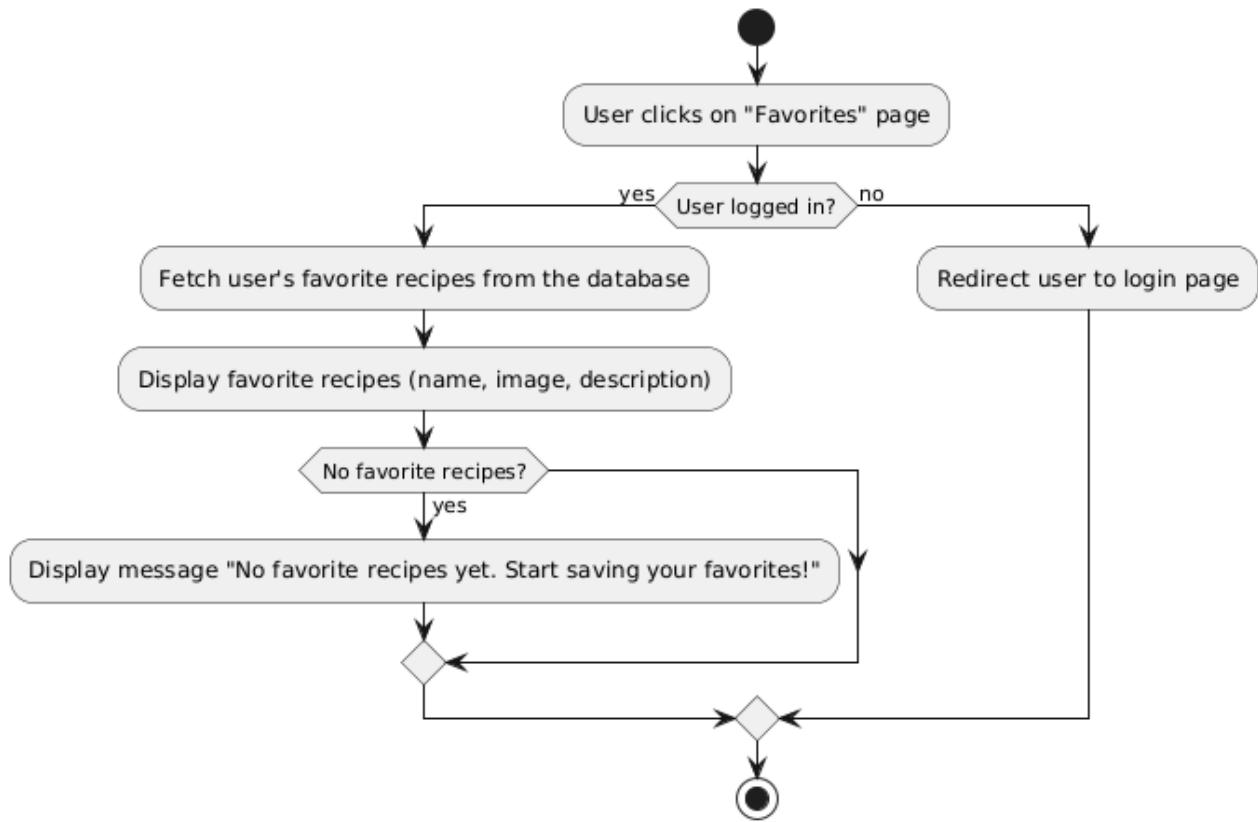


figure 4.3.5.3 shown the favorite recipe activity diagram

4.3.6 Admin Panel

The Admin Panel Component is an essential part of the e-recipe platform, designed to provide administrators with the ability to manage users, monitor system activity, and resolve technical issues. Through the admin panel, admins can view and control registered user accounts, approve or suspend accounts, delete inappropriate content, and manage recipes (e.g., deleting recipes). The panel also allows admins to monitor system activity and technical issues reported by users, providing tools to resolve or escalate issues. The admin panel interacts with the database, fetching relevant user and recipe data, and the frontend displays the data in a structured format, enabling admins to perform their tasks efficiently.

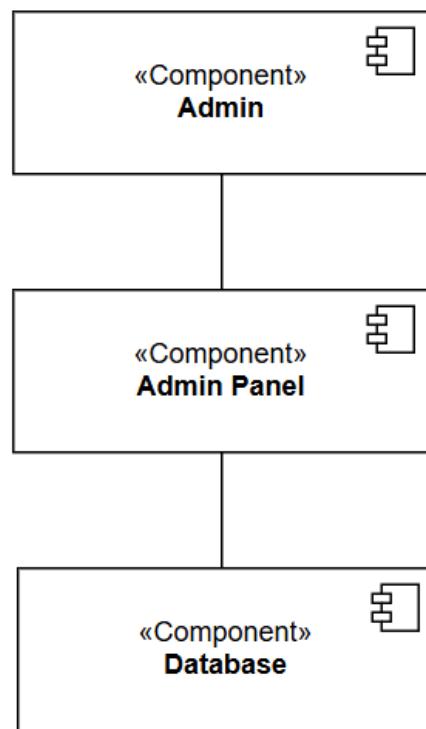


figure 4.3.6.1 shown the admin panel component diagram

pseudocode :

```
1  START Admin Panel Management()
2
3      IF Admin is logged in:
4
5          DISPLAY Admin Dashboard with available options:
6              - View Registered Users
7              - View System Activity Logs
8              - Manage Recipes
9              - Resolve Technical Issues
10
11         IF Admin selects "View Registered Users":
12             FETCH all users from the Users Table
13             DISPLAY user details (name, email, status)
14             PROVIDE options to:
15                 - Approve user
16                 - Suspend user
17                 - Delete user
18
19         IF Admin selects "View System Activity":
20             FETCH system activity logs from the Database
21             DISPLAY logs of recent actions (e.g., user actions, system errors)
22
23         IF Admin selects "Manage Recipes":
24             FETCH all recipes from the Recipe Table
25             DISPLAY recipes (name, description, category)
26             PROVIDE options to:
27                 - Edit recipe
28                 - Delete recipe
29
30         IF Admin selects "Resolve Technical Issues":
31             FETCH reported issues from the Technical Issues Table
32             DISPLAY list of issues with status
33             PROVIDE options to resolve or escalate the issue
34
35     ELSE:
36         DISPLAY error message: "Signup failed. Please try again."
37         REDIRECT to Login page
38
39 END
```

figure 4.3.6.2 shown the admin panel pseudocode

Activity Diagram :

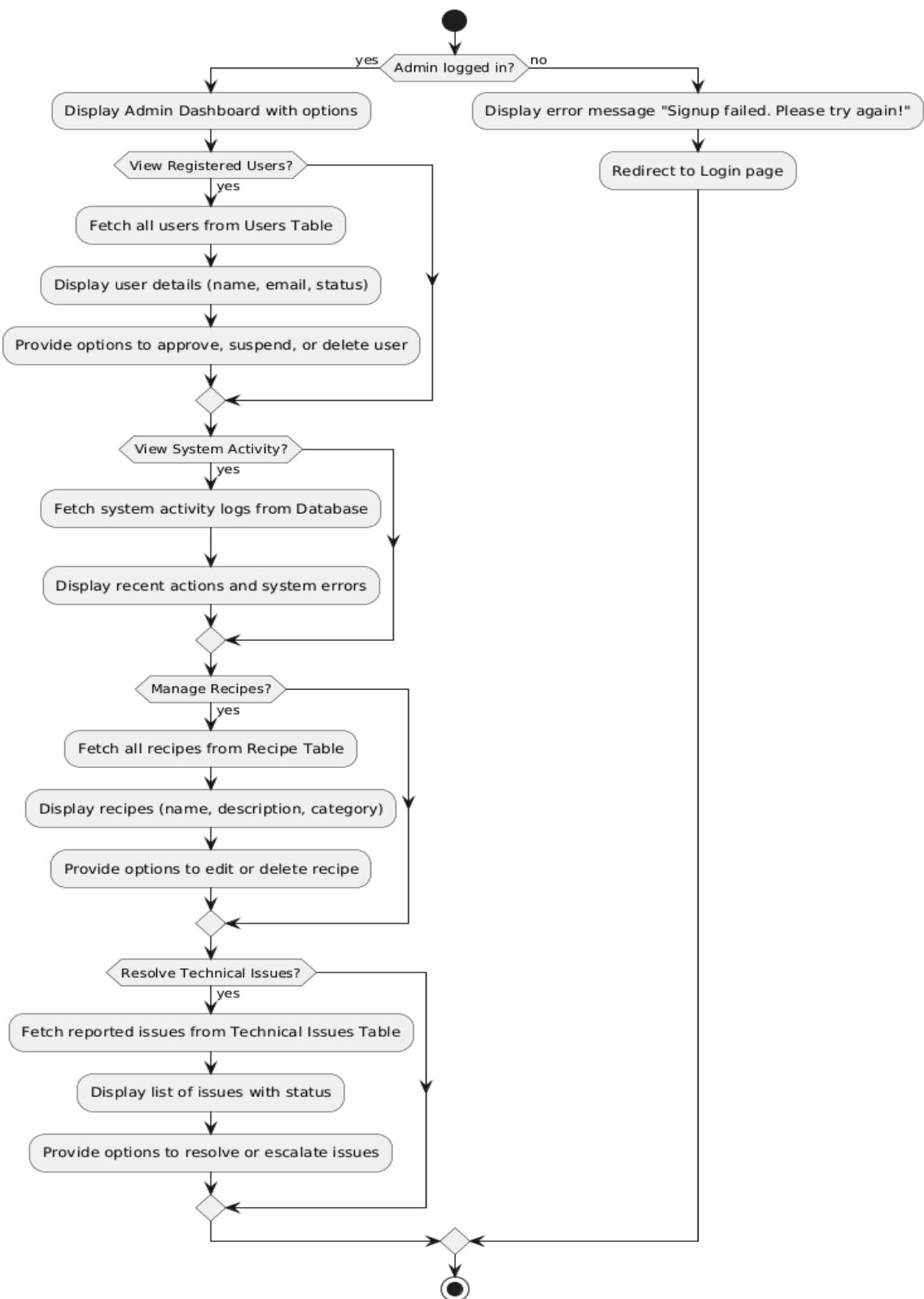


figure 4.3.6.3 shown the admin panel activity diagram

4.3.7 Technical Support

The Technical Support Component is designed to help resolve technical issues and ensure smooth operation of the e-recipe platform. It allows IT Support staff to view, track, and resolve reported issues. These issues are stored in the `it_issues` table in the database, which includes details such as the type of issue, its status, and any actions taken. The frontend provides a user-friendly interface for IT Support staff to view issues, mark them as resolved, and escalate them if needed. The component helps in ensuring that users' issues are addressed promptly and the system runs without errors, providing better support for both users and administrators.

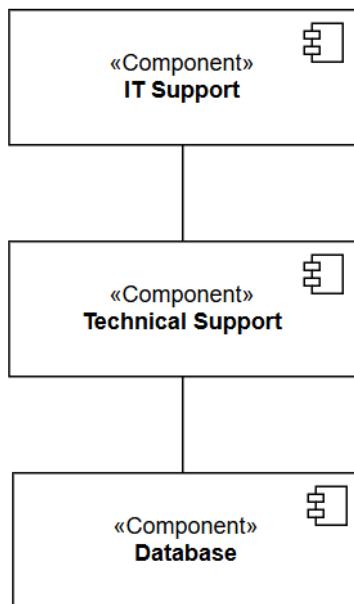


figure 4.3.7.1 shown the technical support component diagram

pseudocode :

```
1  START Technical Support Management()
2
3      IF IT Support is logged in:
4
5          DISPLAY Technical Support Dashboard with options:
6              - View Reported Issues
7              - Resolve Issues
8              - View Issue Details
9
10     IF IT Support selects "View Tickets":
11         FETCH all issues from the Technical Issues Table
12         DISPLAY list of issues with current status (e.g., "pending", "resolved")
13
14     IF IT Support selects "Resolve Issues":
15         FETCH unresolved issues from the Technical Issues Table
16         DISPLAY issues to resolve
17
18     IF IT Support resolves an issue:
19         - Update the issue status to "resolved" in the Database
20         - Log the resolution actions taken
21         DISPLAY success message: "Issue resolved successfully"
22
23     IF IT Support selects "View Logs":
24         FETCH issue details from the Technical Issues Table
25         DISPLAY detailed information about the issue (e.g., issue type, description, actions taken)
26
27 ELSE:
28     DISPLAY error message: "Signup failed. Please try again.."
29     REDIRECT to Login page
30
31 END|
```

figure 4.3.7.2 shown the technical support pseudocode

Activity Diagram :

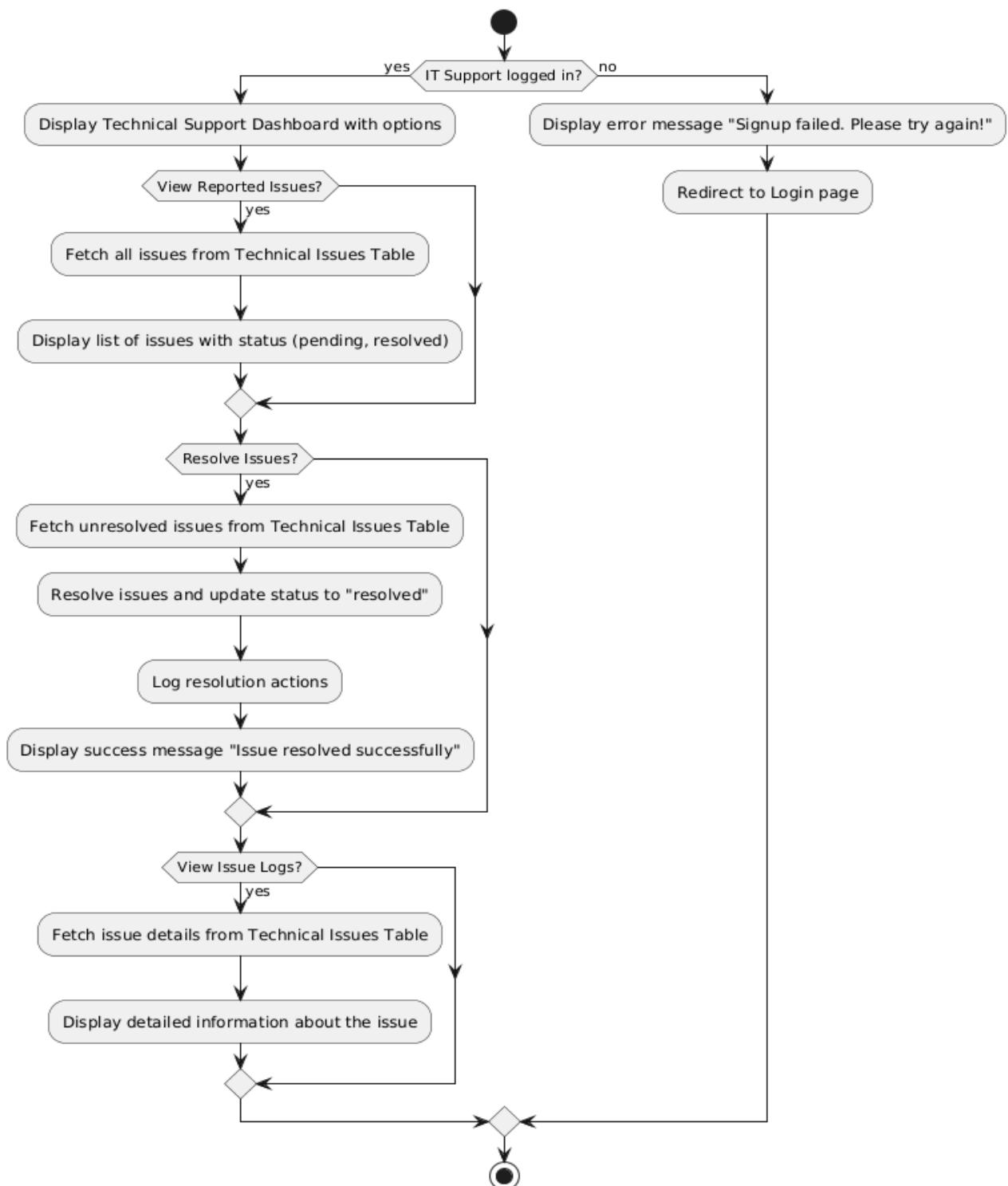


figure 4.3.7.3 shown the technical support activity diagram

4.4 Deployment Diagram

The Deployment Diagram illustrates the architecture of the e-recipe platform, showcasing the relationship between the web server, application server, and database server. The web server serves as the front-end interface that interacts with different user roles such as Registered Users, visitors, admin, and IT Support. Each user type has specific permissions and access to various features within the application, such as browsing recipes, creating accounts, or managing system settings. The application server hosts the core business logic of the platform, handling components such as user management, recipe management, favorites, ratings, search and filter, admin panel, and technical support. These components facilitate functionalities like viewing and managing recipes, rating them, saving favorites, performing advanced searches, and handling admin duties. The database server is where all the data is stored, including user information, recipes, ratings, and technical issues, ensuring that the platform remains consistent and data is persistently available. The interaction between the web server, application server, and database server ensures that the platform runs efficiently and provides a smooth user experience for everyone involved.

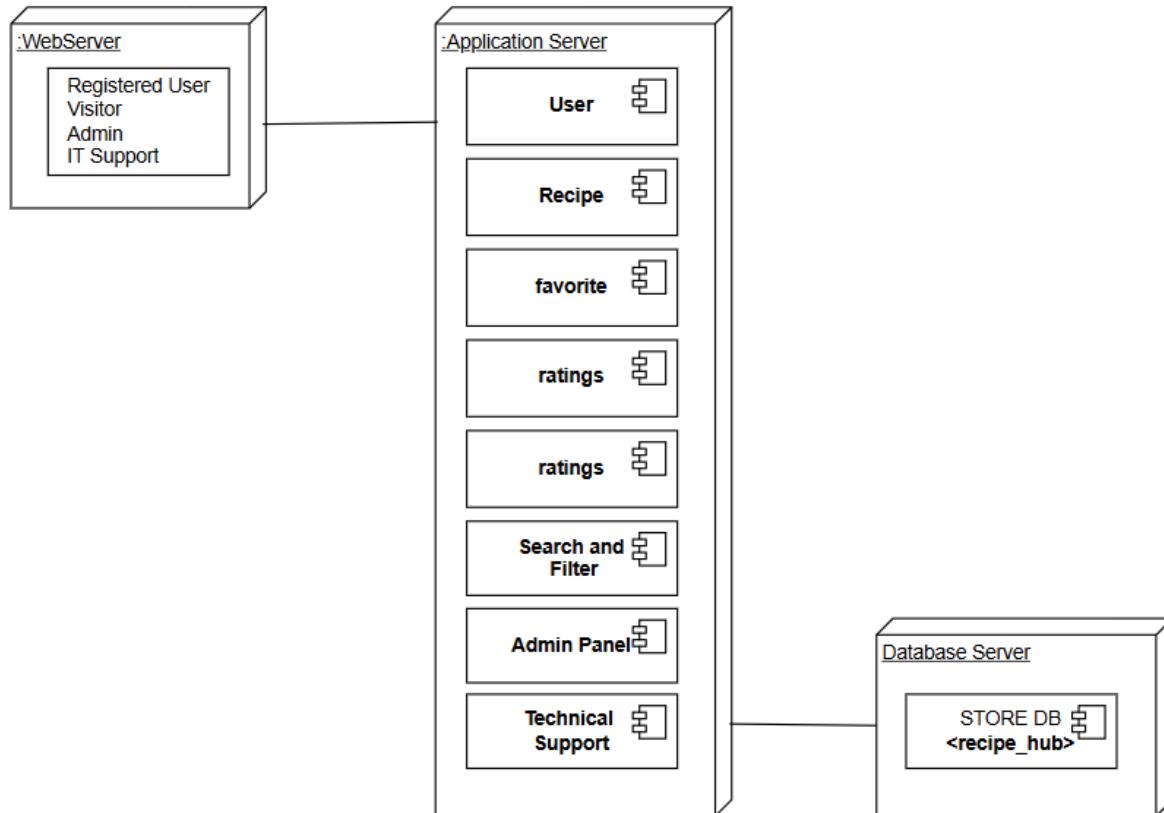


figure 4.4 shown the deployment diagram

5 Implementation

5.1 Development Environment

The development environment for the e-recipe platform is set up with the necessary tools and configurations to facilitate development, testing, and deployment. Here's an overview of the environment:

Tools and Technologies:

1) XAMPP (for local development):

- Apache: The web server used to serve the frontend and handle HTTP requests.
- MySQL: The database server for storing data.
- PHP: The server-side language used for backend logic.
- phpMyAdmin: Web-based interface for managing the MySQL database.

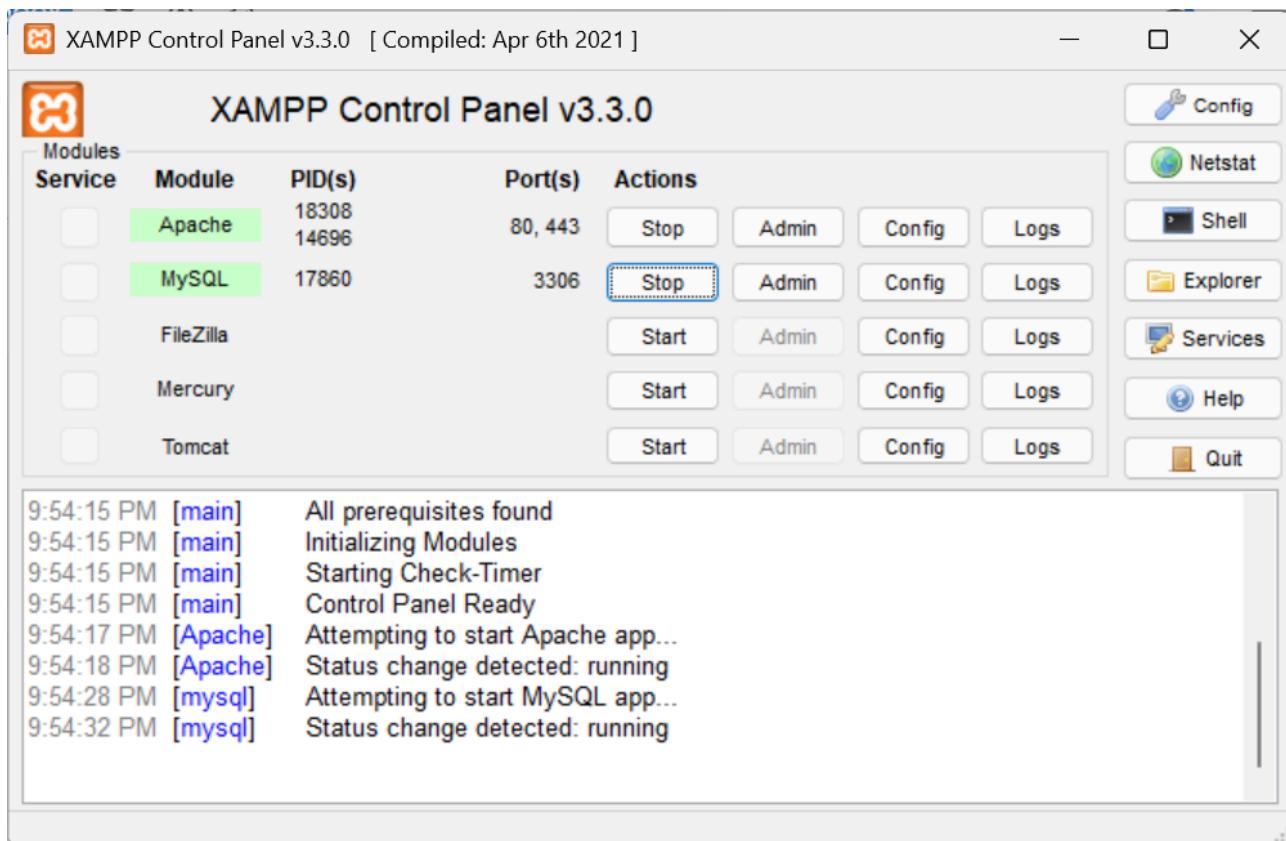


figure 5.1.1 shown the Xampp Application

2) Visual Studio Code (VSCode):

- The main code editor for frontend and backend development.
- Extensions for PHP, HTML, CSS, JavaScript

```

File Edit Selection View ... ← → ⌂ E-RECI... add_recipe.php
add_recipe.php
<?php
// Include the database connection file
include 'actions/db_connect.php'; // Make sure the path is correct
session_start();
// Check if the user is logged in
if (!isset($_SESSION['user_id'])) {
    // redirect to the login page if the user is not logged in
    header('location: index.php');
    exit;
}
if (isset($_POST['add_recipes'])) {
    // Retrieve form inputs
    $recipe_name = $_POST['recipe-name'];
    $description = $_POST['description']; // Added description
    $ingredients = $_POST['ingredients'];
    $instructions = $_POST['instructions'];
    $image_upload = $_FILES['image-upload']; // For image upload, use $_FILES
    $category = $_POST['category'];
    $user_id = $_SESSION['user_id']; // Get the user_id from the session

    // Handling image upload
    $target_dir = "uploads/";
    $target_file = $target_dir . basename($image_upload["name"]);
    $imageFileType = strtolower(pathinfo($target_file, PATHINFO_EXTENSION));

    // Check if the uploaded file is an image
    if (in_array($imageFileType, ['jpg', 'jpeg', 'png', 'gif'])) {
        if (move_uploaded_file($image_upload["tmp_name"], $target_file)) {
            // File uploaded successfully
            // Prepare the SQL query using PDO (Added description column)
            $query = "INSERT INTO recipe (recipeName, description, ingredients, instructions, recipeImage, category, user_id)";
        }
    }
}

```

figure 5.1.2 shown the VS Code

3) Database:

MySQL Database: To store and manage user data, recipes, reviews, etc.

The screenshot shows the phpMyAdmin interface for a MySQL database named 'recipe_hub'. On the left, a tree view lists databases like 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', and the current database 'recipe_hub', which contains tables such as 'activity_logs', 'favorites', 'it_issues', 'ratings', 'recipe', 'suspension_appeals', and 'users'. The main area displays a table of these 7 tables, showing details like rows, type, size, and overhead. The 'suspension_appeals' table is currently selected.

Table	Action	Rows	Type	Collation	Size	Overhead
activity_logs	Browse Structure Search Insert Empty Drop	315	InnoDB	utf8mb4_general_ci	64.0 Kib	-
favorites	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	48.0 Kib	-
it_issues	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	32.0 Kib	-
ratings	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	48.0 Kib	-
recipe	Browse Structure Search Insert Empty Drop	29	InnoDB	utf8mb4_general_ci	80.0 Kib	-
suspension_appeals	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 Kib	-
users	Browse Structure Search Insert Empty Drop	11	InnoDB	utf8mb4_general_ci	48.0 Kib	-
7 tables	Sum				365 InnoDB utf8mb4_general_ci	352.0 Kib

figure 5.1.3 shown the mySQL using PhpMyAdmin

4) File System:

File Storage: To manage uploaded images (e.g., recipe images, profile pictures).

5.2 Software Integration

The integration strategy for the e-recipe platform involves seamless communication and data flow between the Frontend, Backend, Database, and File System subsystems. The Frontend interfaces with users, collecting data (such as recipe submissions or user registration) and sending requests to the Backend. The Backend processes these requests, interacts with the Database to store or retrieve data, and communicates with the File System for managing user-uploaded images. For example, when a user uploads a profile picture, the backend handles the file upload, stores the image in the File System, and saves the image path in the Database. The Admin and IT Support subsystems monitor and manage system operations, handling user management and technical issue resolution. The integration ensures that all subsystems work together, providing a smooth user experience while maintaining data consistency and security across the platform.

File	Description
index.php	The main entry point for the website. This file handles the routing and displays the homepage, which includes a login form and displays some recipes and trending users.
signup.php	Handles the user registration process, including form validation, saving user details to the database, and redirecting users to the login page upon successful registration.
home.css	Contains the styling for the homepage and other common elements used across the platform, such as buttons, layout, fonts, and colors.
NewRecipe.php	A form that allows registered users to create new recipes. Users can input the recipe title, ingredients, instructions, and upload images.
logout.php	Logs the user out by clearing session data, ensuring they are redirected to the login page when they attempt to access restricted pages.
AllRecipe.php	Displays a list or grid view of all available recipes on the platform. It allows users to browse recipes and click on them to view more details.
edit_recipe.php	Provides a form for users to edit their own existing recipe, updating details such as title, ingredients, instructions, and images.
delete_recipe.php	Allows users to delete a recipe from the

	platform. It removes the recipe from the database and redirects the user back to their recipe collection.
view_recipe.php	Displays detailed information for a specific recipe, including ingredients, instructions, preparation time, and any uploaded images.
search_recipes.php	Provides a search bar and filter options for users to quickly find recipes based on keywords or categories.
admin.php	The admin dashboard, where admins can view and manage user accounts, report issues, and perform administrative tasks such as deleting recipes.
admin_review_appeals.php	Allows admins to review user appeals for suspended or deleted accounts, determining whether to lift restrictions based on user requests.
adminhelp_support.php	A page where admins can access help documentation, contact support and report technical issues.
itsupport_home.php	The home page for IT Support staff, providing access to all technical support functions such as viewing and managing system logs and user-reported issues.
ITSupportviewlogs.php	Allows IT Support staff to view system activity logs, which track important actions, errors, and events that require attention or troubleshooting.
ITSupportViewTicket.php	Enables IT Support staff to view and resolve technical support tickets submitted by admins, tracking their progress and providing resolutions.
recipe_hub.sql	SQL script that defines the structure of the recipe-related tables in the database, including tables for user data, recipes , etc.

5.3 Database

The database implementation for the e-recipe platform uses MySQL to store and manage various types of data essential for the platform's functionality. The database consists of several interconnected tables, which is :

- users
- recipe
- suspension_appeals
- ratings
- it_issues
- favorites
- activity_logs

The database for the e-recipe platform is designed to maintain referential integrity with index key relationships linking users to their recipes, ratings, and favorites. The Recipes table stores essential information such as the recipe title, ingredients, instructions, and images, while the Users table holds authentication and profile data. The system supports CRUD operations (Create, Read, Update, Delete), allowing for dynamic recipe management, user interactions, and troubleshooting, ensuring consistent and accessible data across the platform. To prevent data loss, regular database backups will be performed, and the database will be stored on the server and managed via phpMyAdmin for administrative tasks.

6 Testing

6.1 Testing Strategy

The **System Testing** approach will be used to validate the entire E-Recipe Hub platform. This ensures that all components—Frontend, Backend, and Database—work together as expected for different user roles (Visitor, Registered User, Admin, IT Support). The goal is to test the full functionality of the system in real-world scenarios and verify that the platform meets its requirements.

6.2 Test Data

6.2.1 Test Data Set 1 - User

User 1 Credential :

Username : issyeCooks

Password : issye123

Create New Recipe Test Data :

Recipe Name	Kuih Cara Berlauk
Ingredients	150g all-purpose flour 250ml coconut milk 1 egg 1/2 tsp salt 1/2 tsp turmeric powder 100g minced chicken or fish 1 small onion (chopped) 1 tbsp curry powder 1 tbsp oil Red chilies and spring onions (for garnish)
Recipe Description	Kuih Cara Berlauk is a traditional Malaysian savory snack made from a soft, turmeric-flavored batter and topped with a delicious filling of spiced minced chicken or fish. This bite-sized kuih is cooked in a custom mold until golden, resulting in a slightly crispy outside with a tender, flavorful center. Perfect for breakfast, tea time, or as a party treat, it's both filling and packed with local flavors.
Instructions	1. Sauté onion, curry powder, and minced chicken or fish until cooked. Set aside. 2. Mix flour, coconut milk, egg, salt, and turmeric into a smooth batter. 3. Heat a kuih cara mold, grease it lightly, and pour in batter until half-full. 4. Add a spoonful of filling and top with red chili and spring onion. 5. Cover and cook until firm.
Upload Image	Yes
Category	Malay Cuisine

Edit Recipe Test Data

Recipe Name	Kuih Cara Berlauk
Ingredients	150g all-purpose flour 250ml coconut milk 1 egg 100g minced chicken or fish 1 small onion (chopped) 1 tbsp curry powder
Recipe Description	Kuih Cara Berlauk is a traditional Malaysian savory snack. This bite-sized kuih is cooked in a custom mold until golden, resulting in a slightly crispy outside with a tender, flavorful center. Perfect for breakfast, tea time, or as a party treat, it's both filling and packed with local flavors.
Instructions	1. Sauté onion, curry powder, and minced chicken or fish until cooked. Set aside. 2. Mix flour, coconut milk, egg, salt, and turmeric into a smooth batter. 3. Heat a kuih cara mold, grease it lightly, and pour in batter until half-full. 4. Add a spoonful of filling and top with red chili and spring onion. 5. Cover and cook until firm.
Category	Chinese Cuisine

Edit User Profile Test Data

Profile Picture	Yes
Bio	A true custodian of tradition, Issye specializes in crafting authentic Malay kuih, bringing time-honored recipes to life with precision and passion. Committed to preserving Malaysia's sweet heritage, they blend nostalgia with artistry, ensuring that these delicate treats continue to be cherished for generations.
Username	IssyeCooks
Email	issye03@gmail.com
Phone	0147205674
Address	Ampang, Kuala Lumpur
Gender	Female
Facebook	https://www.facebook.com
Twitter	https://www.twitter.com
Instagram	https://www.instagram.com/issyeelaili/

6.2.2 Test Data Set 2 - Admin

Admin Credential :

Username : cozykitchen@admin

Password : ckadmin@123

User Management - Suspend User

ID	3
Username	arianagrande
Email	arianagrande@work.com
Status	Active
Suspension Reason	Unauthorized Account
Actions	Suspended

Help & Support Submit a Report Issues

Issue Title	Missing or delayed data updates
Description	Data on the website is not updating in real time or is missing entirely. This affects features such as displaying newly added content, updating profile changes, and showing the latest notifications or transaction history, causing confusion and outdated information for users.
Priority	High

6.2.3 Test Data Set 3 - IT Support

IT Support Credential :

Username : cozykitchen@it

Password : ckitsupport@123

Resolve View Ticket

Issue Title	Missing or delayed data updates
Description	Data on the website is not updating in real time or is missing entirely. This affects features such as displaying newly added content, updating profile changes, and showing the latest notifications or transaction history, causing confusion and outdated information for users.
Priority	High
Resolved	Yes

6.3 Acceptance Testing

6.3.1 Acceptance Test 1

Actor : Admin

Developer : ISSYE LALIYAH BINTI SOPINGI

Criteria	Fulfilled	Remarks
Admin Dashboard	Complete	
Manage User Profile	Complete	
System Activity	Complete	
Help & Support	Complete	
Logout	Complete	

Date tested : 9/1/2025 _____

% Complete : 100% _____

Tested by : Issye Lailiyah _____

Verified by : Zulaikha Afzan _____

...

6.3.2 Acceptance Test 2

Actor : IT Support

Developer : ZULAIKHA AFZAN BINTI BEE WAN

Criteria	Fulfilled	Remarks
IT Support Homepage	Complete	
View Ticket	Complete	
View Logs	Complete	
Logout	Complete	

Date tested : 9/1/2025 _____

% Complete : 100% _____

Tested by : zulaikha afzan _____

Verified by : issye lailiyah _____

...

6.3.3 Acceptance Test 3

Actor : Registered User

Developer :IZZAN IRDINA BINTI HUSAINI

Criteria	Fulfilled	Remarks
Home Page	Complete	
Profile Management	Complete	
Edit Profile	Complete	
Change Password	Complete	
Create Recipe	Complete	
Edit Recipe	Complete	
Delete Recipe	Complete	
Shared Recipe	Partially	
Saved Recipe	Complete	
Rating Recipe	Complete	
Logout	Complete	

Date tested :9/1/2025 _____

% Complete :100% _____

Tested by : izzan irdina_____

Verified by :_noraleya maisarah_____

6.3.4 Acceptance Test 3

Actor : Visitor

Developer : NORALEYA MAISARAH BINTI NUHIZAM

Criteria	Fulfilled	Remarks
Home Page	Complete	
Search	Complete	
Shared	Partially	
Login	Complete	
Sign up	Complete	
View All Recipe	Complete	

Date tested : 9/1/2025 _____

% Complete : 100% _____

Tested by : noraleya maisarah _____

Verified by : izzan irdina _____

7 Sample Screens

7.1 Visitor

7.1.1 Home Page

The home page (**Figure 7.1.1**) serves as the initial interface accessible to all visitors, including users, administrators, and IT support, without the need for authentication. It provides an overview of the platform's content. The menu bar at the top allows easy navigation to different sections such as "Recipes" and "Log In.". The page displays a random selection of recipes in a grid format, showcasing thumbnails and brief descriptions for quick access. Below the recipe section, the top contributors are featured, highlighting chefs or users who have shared the most recipes on the platform, along with their profiles and links to their content. Additionally, the main page includes sections for newly added and trending recipes, enabling visitors to discover fresh and popular dishes.

Cozy Kitchen Delights ❤️

All Recipes
Log In / Sign Up
Search



Daging Rendang

Daging Rendang is a rich, flavorful, and aromatic slow-cooked beef dish from Indonesia, widely popular in Malaysia. Made with tender beef simmered in coconut milk and a fragrant blend of spices, it has a deep, caramelized flavor and thick, slightly dry gravy. Traditionally, it is served with rice, ketupat, or lemang.



Lemang

Lemang is a traditional Malaysian and Indonesian dish made from glutinous rice, coconut milk, and sago, cooked inside a bamboo tube lined with banana leaves over an open fire. It has a slightly smoky flavor and a rich, creamy texture, often enjoyed with rendang or serunding (spiced grated coconut).



Mapo Tofu (麻婆豆腐)

A spicy Sichuan dish made with soft tofu, minced meat, and a flavorful, numbing sauce made from Sichuan peppercorns.



Peking Duck (北京烤鸭)

A famous Beijing dish featuring crispy roasted duck served with thin pancakes, hoisin sauce, and scallions.



Butter Chicken (Murgh Makhani)

Butter Chicken is a rich and creamy North Indian dish, where tender chicken is cooked in a spiced tomato and butter-based sauce. It has a mildly sweet and tangy flavor, perfect with naan or basmati rice.



Masala Dosa

Masala Dosa is a crispy South Indian fermented rice and lentil crepe filled with a spiced potato filling. It is served with coconut chutney and sambar.

MALAYSIAN PRIDE: CULINARY EXCELLENCE

These chefs are recognized for their mastery of Malaysian flavors, innovative techniques, and dedication to preserving and redefining the nation's culinary heritage. Their contributions showcase Malaysia's diverse food culture, blending tradition with creativity to leave a lasting impact locally and globally.



IssyeCooks



fattahamin



pastryQueen



michelleyeh



manothevar



NEW & TRENDING RECIPES



Butter Chicken 🍗

Butter Chicken is a creamy, rich Indian dish with tender chicken simmered in a spiced tomato-based sauce. It's comforting, flavorful, and best enjoyed with naan or rice.



Japanese Purin (Caramel Custard Pudding)

Purin is a Japanese version of caramel custard, known for its smooth, creamy texture and rich caramel topping. It's a classic dessert that's easy to make and always impresses with its elegant presentation.



Halal Chicken Karaage (鶏の唐揚げ)

Karaage is a popular Japanese fried chicken dish, known for its crisp exterior and juicy interior. This halal version maintains the signature taste by using halal-friendly soy sauce and a millet substitute. The chicken is marinated for deep flavor and coated in starch for a crispy texture.

Figure 7.1.1 displays the recipes in home page

7.1.2 Search

The search (Figure 7.1.2) allows users to find recipes easily by entering keywords and selecting a specific category (optional). Users can type a recipe name or related keywords in the search bar and choose a category from the dropdown menu to narrow their results. When the "Search" button is clicked, the system retrieves matching recipes from the database and displays them on the page.

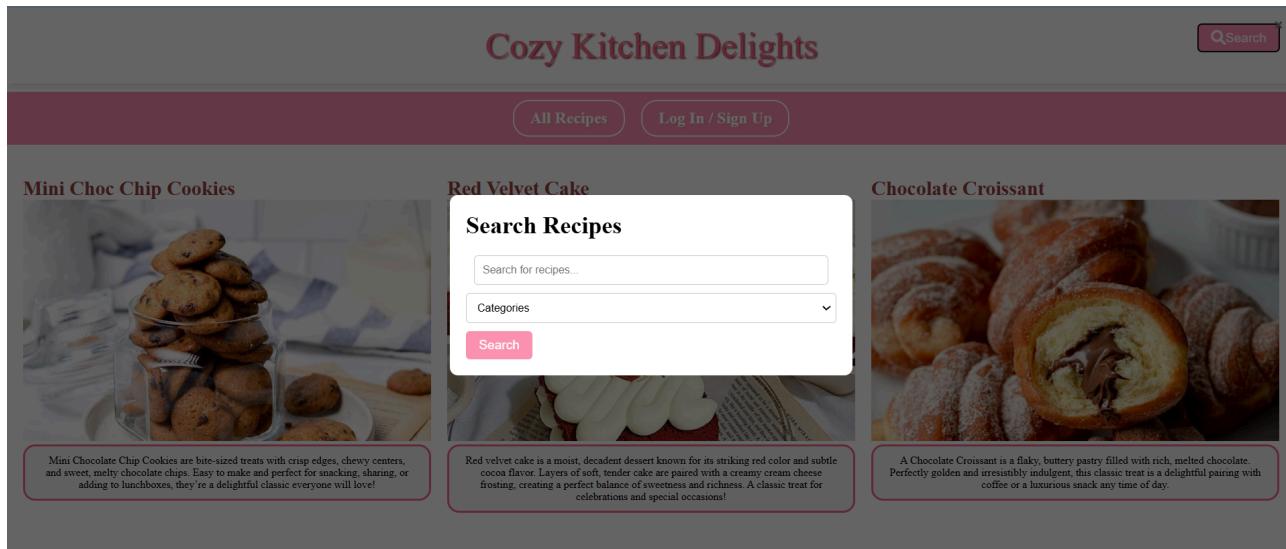


Figure 7.1.2 Search

7.1.3 Log in

Figure 7.1.2 shows the login page for all the users which require them to enter their username and password. If a visitor wants to log in they need to click “Sign Up” at the bottom of the pop-up window and will navigate to the Sign Up page.

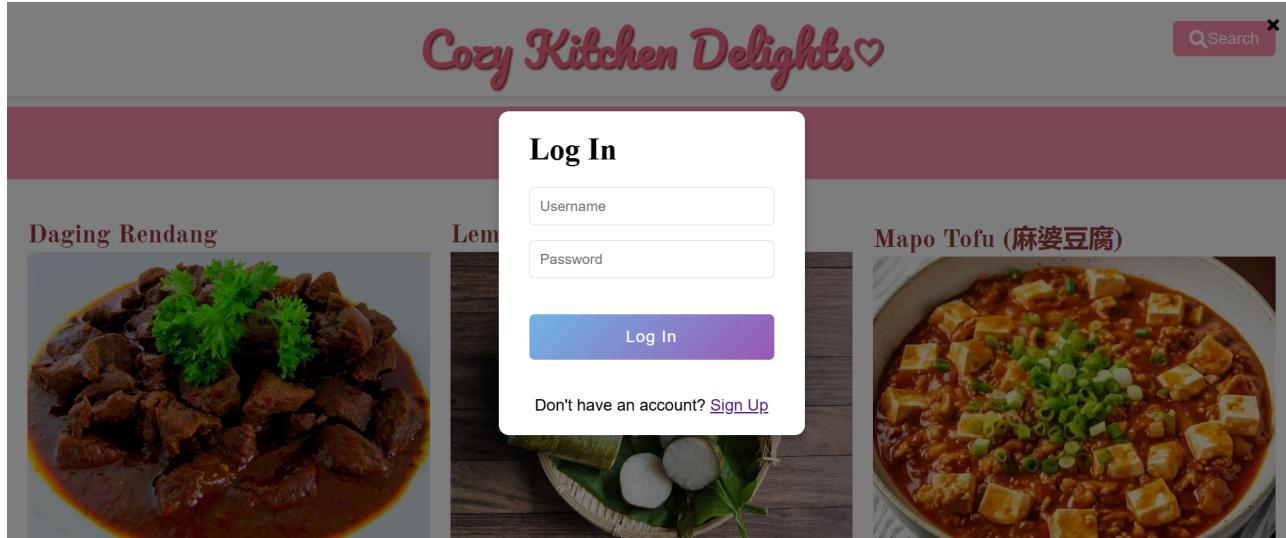
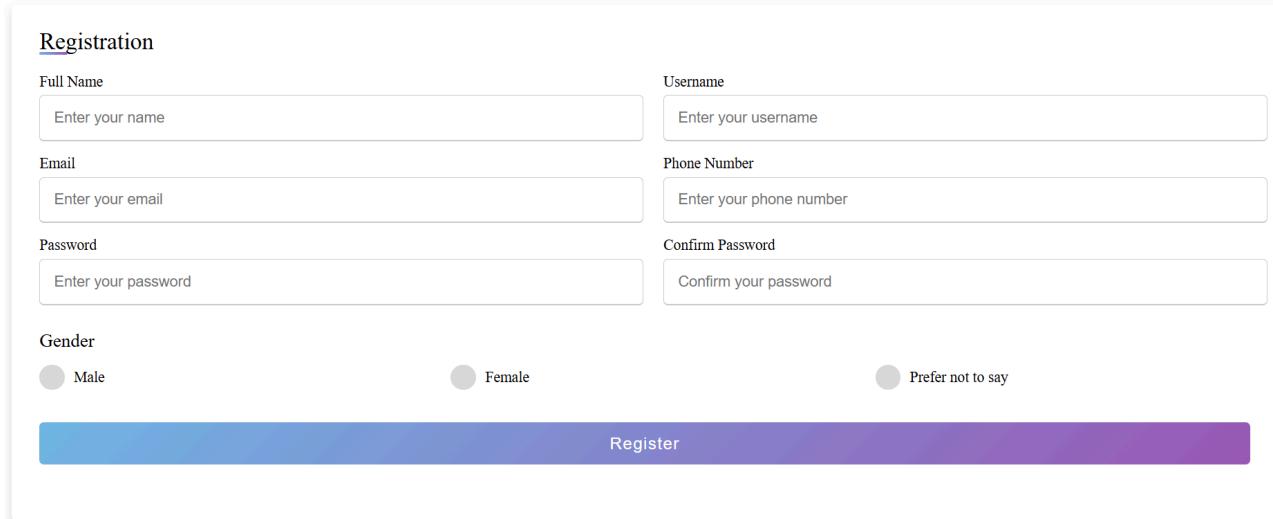


Figure 7.1.2 shows the login page

7.1.4 Sign up

The Sign Up page (Figure 7.1.3) is designed for first-time users or visitors who wish to create an account. On this page, users are required to provide their details, including their name, email address, and a secure password. Once the form is successfully submitted, users are redirected to the home page, where they must log in to access their account and begin exploring the website's features.



The figure shows a registration form titled "Registration". It consists of several input fields and gender selection options. The fields are arranged in two columns. The left column contains "Full Name" (placeholder: "Enter your name"), "Email" (placeholder: "Enter your email"), and "Password" (placeholder: "Enter your password"). The right column contains "Username" (placeholder: "Enter your username"), "Phone Number" (placeholder: "Enter your phone number"), and "Confirm Password" (placeholder: "Confirm your password"). Below these fields is a "Gender" section with three radio buttons: "Male", "Female", and "Prefer not to say". A large blue-to-purple gradient "Register" button is at the bottom.

Registration		
Full Name	Username	
Enter your name	Enter your username	
Email	Phone Number	
Enter your email	Enter your phone number	
Password	Confirm Password	
Enter your password	Confirm your password	
Gender		
<input type="radio"/> Male	<input type="radio"/> Female	<input type="radio"/> Prefer not to say
Register		

Figure 7.1.3 shows the Sign Up page

7.2 Registered User

7.2.1 Registered User Home Page

Upon successful login, users are directed to the User Homepage (Figure 7.2.1), which offers an enhanced experience compared to the visitor homepage. The primary difference lies in the menu bar at the top of the page, which provides users with access to several key features:

- **All Recipes**, where users can browse the complete collection of available recipes;
- **Profile**, which allows users to manage their personal information and preferences;
- **Add Recipe**, for submitting and publishing new recipes;
- **Notifications**, for staying informed about updates and alerts;
- **Favorite Recipes**, which displays a personalized list of saved recipes;
- **Log Out**, to end the session and return to the visitor homepage.

The homepage also includes a **Search Bar** for quick recipe searches, enabling users to find specific dishes easily. Below the menu, the page highlights featured content such as **Highlighted Recipes**, **Top Chefs**, and **New or Trending Dishes**, creating an engaging and personalized browsing experience.

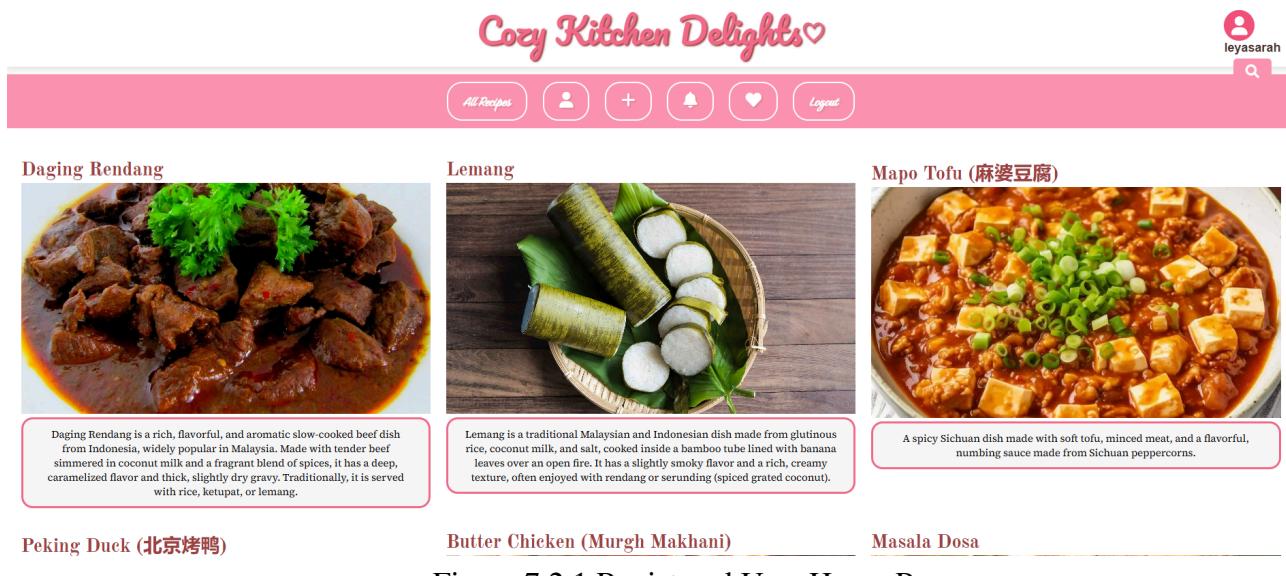


Figure 7.2.1 Registered User Home Page

7.2.2 User Profile

The **User Profile** section is designed for managing user details and uploaded recipes. At the top of the profile page, a **Navigation Menu** offers options to **Edit Profile**, **Change Password**, and **Log Out**. The **Profile Section** displays the user's personal information, including their name, email, phone number, address, gender, and bio, along with social media links for enhanced connectivity. On the left side, quick-access buttons for **Create Recipe** and **Saved Recipes** streamline recipe management.

Below the profile details, the **My Recipes** section showcases the user's previously uploaded recipes, each displayed as a card with an image and a brief description. Each recipe card offers three actions: **View** to display the full recipe details, **Edit** to update the recipe, and **Delete** to remove it from the system.

The screenshot displays the user interface for the 'Cozy Kitchen Delights' application. At the top, there is a navigation bar with icons for Home, Profile, Edit Profile, Change Password, and Logout. Below the navigation bar is the user's profile section, featuring a circular profile picture, the username 'leyasarah', and the handle '@leyasarah'. It includes two buttons: 'Create Recipe' and 'Saved Recipes'. To the right of the profile picture is the 'My Profile' section, which lists the user's email (leyasarah@user.com), phone number (0147205674), address (61,Cyberjaya), and gender (Female). A bio states: 'Bio: Bringing the flavors of Japan to halal kitchens! I recreate authentic Japanese dishes with halal-friendly ingredients—because everyone deserves to enjoy the rich tastes of Japan.' Below the profile section are social media icons for Facebook, Twitter, and Instagram. The main content area is titled 'My Recipes' and shows three cards for uploaded recipes: 'Halal Chicken Karaage (鶏の唐揚げ)', 'Beef Gyudon (牛丼)', and 'Sushi Roll (California Roll)'. Each card includes a thumbnail image, the recipe name, a brief description, and three action buttons: 'View', 'Edit', and 'Delete'.

Figure 7.2.2

7.2.3 Edit Profile

The **Edit Profile** page allows users to update their personal information and customize their profile. Users can upload a new profile picture, modify their bio, and change their username, email, phone number, address, gender, and social media account links. Once all changes have been made, users must click the **Save Changes** button to apply and save the updated information.

The screenshot shows the 'Edit Profile' page of a website named 'Cozy Kitchen Delights'. The header features a pink navigation bar with icons for Home, Profile, Change Password, and Logout. On the left, there's a sidebar with a profile picture of a woman, the username 'leyasarah', and the handle '@leyasarah'. The main content area is titled 'Edit Profile' and contains various input fields for updating user information:

- Profile Picture:** A file input field showing 'Choose File No file chosen'.
- Bio:** Text input field containing 'Bringing the flavors of Japan to halal kitchens! I recreate at'.
- Username:** Text input field containing 'leyasarah'.
- Email:** Text input field containing 'leyasarah@user.com'.
- Phone:** Text input field containing '0147205674'.
- Address:** Text input field containing '61,Cyberjaya'.
- Gender:** Text input field containing 'Female'.
- Facebook:** Text input field containing '<https://www.facebook.com>'.
- Twitter:** Text input field containing '<https://www.instagram.com>'.
- Instagram:** Text input field containing '<https://www.twitter.com>'.

A red 'Save Changes' button is located at the bottom of the form.

Figure 7.2.3

7.2.4 Change Password

The **Change Password** page allows users to update their account password. To proceed, users must first enter their **Current Password**. Then, they need to provide a **New Password** and confirm it by re-entering the same new password to ensure accuracy. Once completed, users must click the **Save Password** button to apply the change. The new password will be securely saved in the database and will be used for future logins.

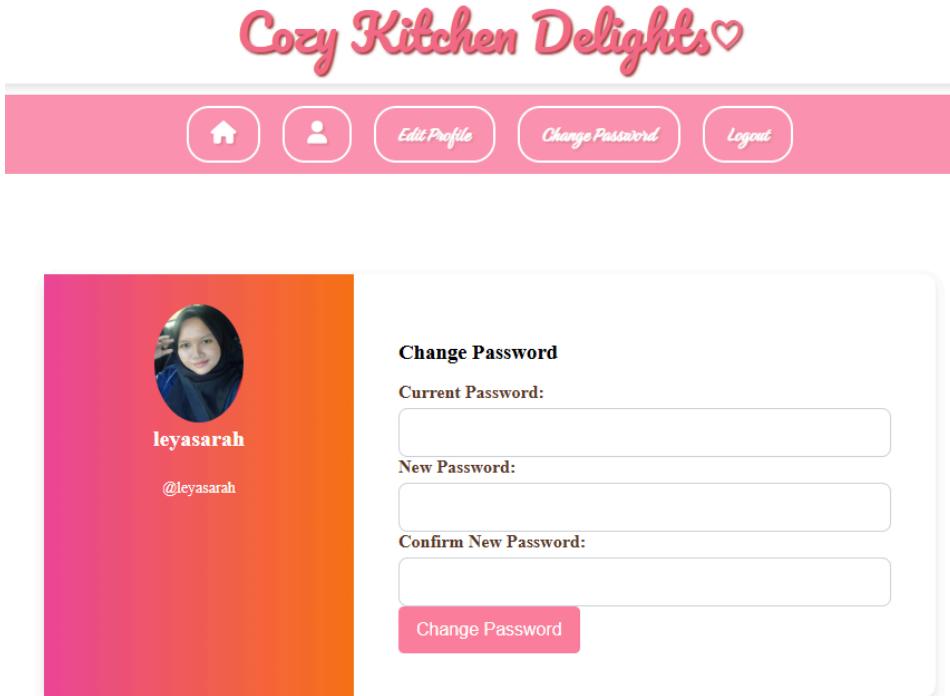


Figure 7.2.4 Change Password

7.2.5 Create New Recipe

The **Create New Recipe** page enables users to share their own recipes with others. Users are required to fill in the recipe details such as Recipe name, Ingredients, description and instructions. Additionally, users may upload an image related to the recipe and select a category from the listed options to classify the recipe. Once all fields are completed, users can click the **Post** button to publish the recipe, making it visible to other users.

The screenshot shows a user interface for creating a new recipe. At the top, a pink header bar contains the title "Add New Recipe". Below the header, the form is divided into several sections:

- Recipe Name:** A text input field with placeholder text "Enter recipe name".
- Ingredients:** A text area with placeholder text "List ingredients here...".
- Recipe Description:** A text area with placeholder text "Write step-by-step instructions...".
- Instructions:** A text area with placeholder text "Write step-by-step instructions...".
- Upload Image:** A file input field labeled "Choose File" with the message "No file chosen".
- Category:** A dropdown menu labeled "Select Category".

At the bottom of the form is a pink "Post" button.

Figure 7.2.5 Create New Recipe

7.2.6 Favourite Recipe

The **Favorite Recipes** (Figure 7.2.6) page displays all the recipes that the user has previously saved. This section provides an organized list of saved recipes, allowing users to quickly access and revisit their favorite dishes. Each recipe is presented with its name, image, and a brief description for easy identification.

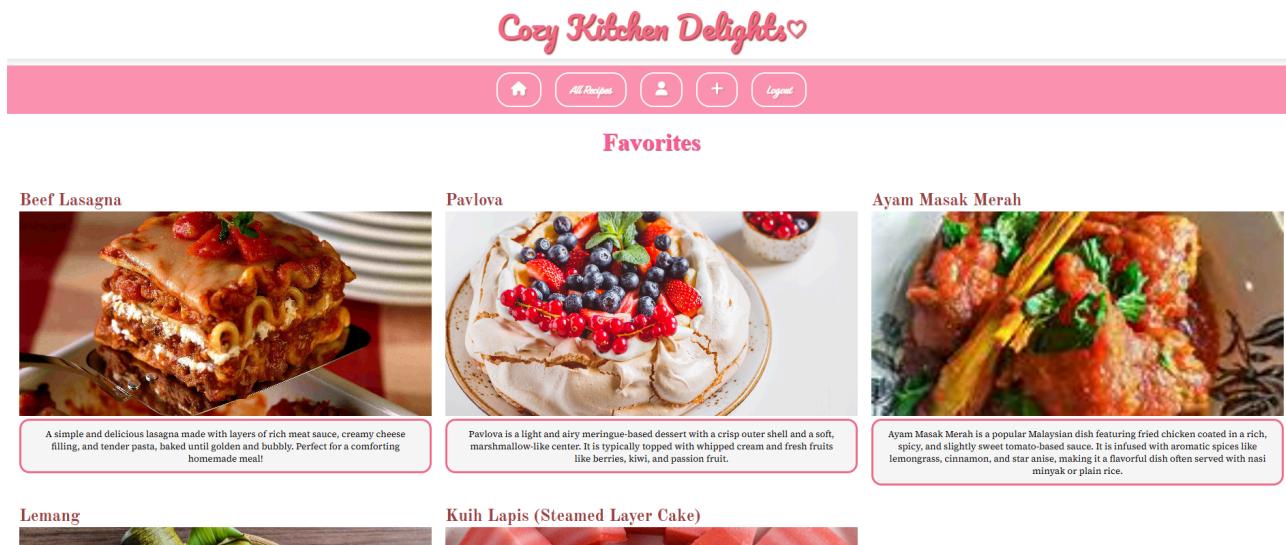


Figure 7.2.6 Registered User Home Page

7.2.7 My Recipe View

The My Recipe View page allows users to view the full details of their posted recipes. This includes the **Recipe Name**, **List of Ingredients**, and **Cooking Instructions**. Additionally, the page features options for users to **Share the Recipe** with others through social media or direct links. Users can also see the Number of Views the recipe has received and its **Current Rating**, providing insights into its popularity and user feedback.

Halal Chicken Karaage (鶏の唐揚げ)

Posted by **leyasarah**



Karaage is a popular Japanese fried chicken dish, known for its crispy coating and juicy interior. This halal version maintains the authentic flavors by using halal-friendly soy sauce and a mirin substitute. The chicken is marinated for deep flavor and coated in starch for a crispy texture.

Ingredients

- 500g boneless chicken thighs (cut into bite-sized pieces)
- 2 tbsp soy sauce (use halal-certified soy sauce)
- 1 tbsp mirin substitute (mix 1 tbsp grape juice with ½ tsp vinegar)
- 1 tbsp grated ginger
- 1 tbsp grated garlic
- ½ tsp salt
- ½ tsp black pepper
- ½ tsp sesame oil
- ½ cup potato starch (or cornstarch for crispiness)
- ½ cup potato starch (or cornstarch for crispiness)
- Oil for frying (vegetable or canola oil)
- Lemon wedges (for serving)

Cooking Instructions

1. Marinate the Chicken:
In a bowl, mix soy sauce, mirin substitute, grated ginger, grated garlic, salt, pepper, and sesame oil.
Add the chicken pieces and mix well. Cover and let marinate for at least 30 minutes (or overnight for deeper flavor).
2. Coat the Chicken:
In a separate bowl, add the potato starch.
In a separate bowl, add the potato starch.
Dredge each piece of marinated chicken in the starch, ensuring an even coating. Shake off any excess.
3. Heat the Oil:
Pour about 2 inches of oil into a deep pan and heat to 170°C (340°F).
To check if the oil is ready, drop a small piece of starch into the oil—if it sizzles, it's ready.
4. Fry the Chicken:
Increase the oil temperature to 190°C (375°F).
Fry the chicken again for about 1-2 minutes until extra crispy.
5. Double Fry (for Extra Crispiness):
Plate the karaage with lemon wedges and optionally serve with Japanese mayo or a side of rice. Enjoy!

 0 people have reviewed your recipe

No ratings yet

No ratings yet 

Figure 7.2.7

Page 87

7.2.8 My Recipe Edit

The **My Recipe Edit** page allows users to update and modify their previously posted recipes. Users can edit all details of the recipe, including the **Recipe Name**, **Ingredients**, **Description**, **Instructions** and **Category**. Once the necessary changes are made, users must click the **Update** button to save the edits. The updated recipe will replace the previous version and be immediately available to other users.

Edit Recipe

Recipe Name:
Halal Chicken Karaage (鶏の唐揚げ)

Ingredients:

- 500g boneless chicken thighs (cut into bite-sized pieces)
- 2 tbsp soy sauce (use halal-certified soy sauce)
- 1 tbsp mirin substitute (mix 1 tbsp grape juice with ½ tsp vinegar)
- 1 tbsp grated ginger
- 1 tbsp grated garlic
- ½ tsp salt
- ½ tsp black pepper
- ½ tsp sesame oil
- ½ cup potato starch (or cornstarch for crispiness)
- Oil for frying (vegetable or canola oil)
- Lemon wedges (for serving)

Instructions:

1. Marinate the Chicken:
In a bowl, mix soy sauce, mirin substitute, grated ginger, grated garlic, salt, pepper, and sesame oil. Add the chicken pieces and mix well. Cover and let marinate for at least 30 minutes (or overnight for deeper flavor).
2. Coat the Chicken:
In a separate bowl, add the potato starch. Dredge each piece of marinated chicken in the starch, ensuring an even coating. Shake off any excess.
3. Fry the Chicken:
Fry the chicken in batches to avoid overcrowding. Cook for 4–5 minutes, turning occasionally, until golden brown and crispy. Remove and drain on a wire rack or paper towels.
4. Double Fry (for Extra Crispiness):
Increase the oil temperature to 190°C (375°F). Fry the chicken again for about 1–2 minutes until extra crispy.
5. Serve:
Plate the karaage with lemon wedges and optionally serve with Japanese mayo or a side of rice. Enjoy!

Category:
Desserts

Update Recipe

© 2025 Cozy Kitchen Delights

Figure 7.2.7

7.2.9 My Recipe Delete

The **My Recipe Delete** page allows users to permanently remove a posted recipe. When users initiate the delete action, a **Confirmation Message** is displayed: *"Are you sure you want to delete this recipe?"* Below the message, the **Recipe Image** and **Recipe Title** are shown to help users confirm they are deleting the correct recipe.

A **Reminder** informs users that *"Once deleted, this action cannot be undone."* Users must make a careful decision by selecting either **Yes, Delete** or **No, Cancel**.

If the user confirms by clicking **Yes, Delete**, a second confirmation message prompts them again to ensure they want to proceed with the deletion. Once confirmed, the system will permanently remove the recipe and redirect the user back to the **User Profile** page, where the deleted recipe will no longer be visible.

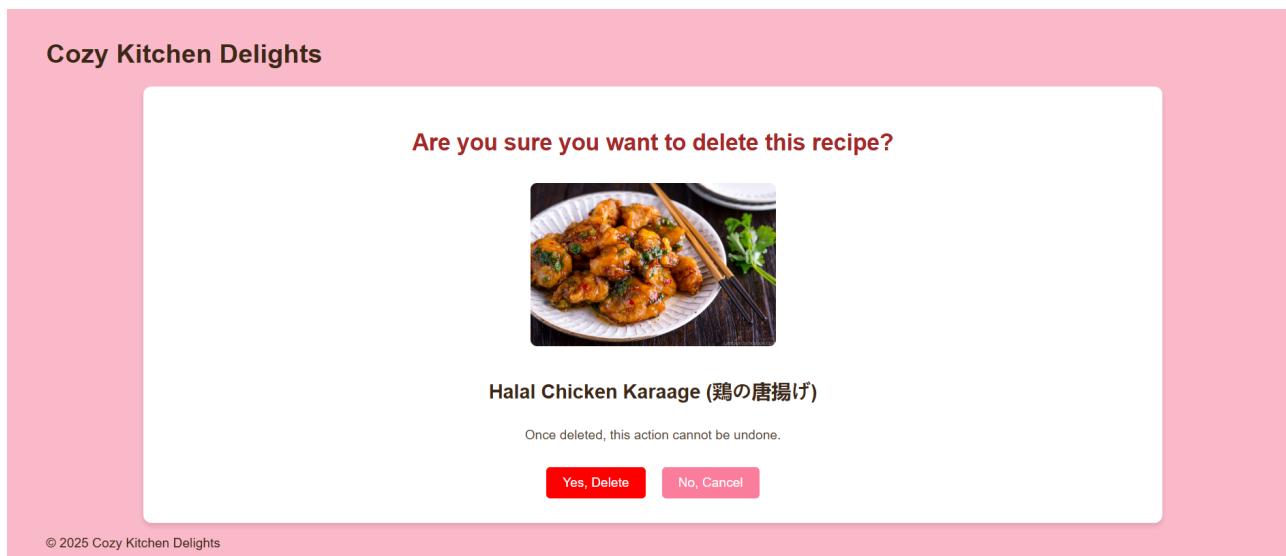


Figure 7.2.9

7.3 Admin Page

7.3.1 Admin Dashboard

The **Admin Dashboard** provides an overview of key statistics and activities on the platform. In the dashboard interface, administrators can view the **Total Number of Registered Users** and the **Total Number of Posted Recipes**. These metrics offer real-time insights into the platform's user base and content volume, helping administrators monitor the website's growth and engagement.

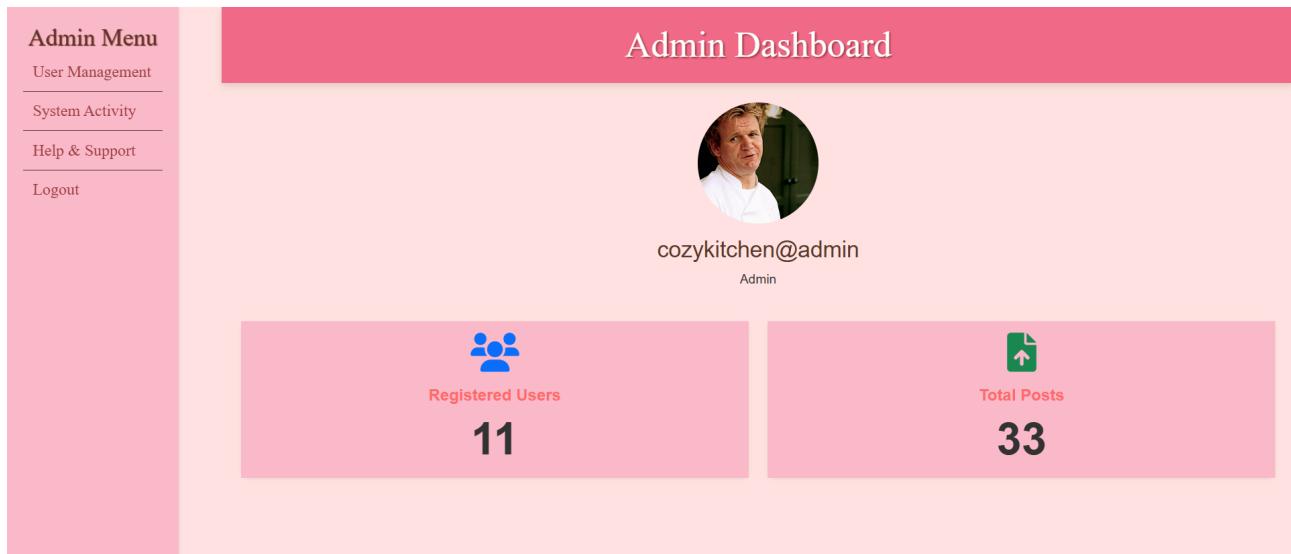


Figure 7.3.1

7.3.2 User Management

The **User Management** page allows administrators to manage user accounts and perform key actions. The page displays a list of registered users along with their relevant details, including **Username**, **Email**, **Account Status** (e.g., *Active* or *Suspended*), and **Suspension Reason** (if applicable).

Administrators can perform the following actions:

- **View Details** – Access the user's profile and activity history.
- **Suspend User** – Temporarily disable a user's account. When a user is suspended, their **Status** changes from *Active* to *Suspended*, and additional actions become available:
 - **Reactivate User** – Restore the user's account to active status.
 - **View Appeal** – Review the user's request to lift the suspension, if applicable.
 - **Delete User** – Permanently remove the user and their account data from the system.

This page helps administrators monitor and control user access, ensuring platform security and compliance with community guidelines.

The screenshot shows the User Management interface. On the left is a vertical Admin Menu with links for User Management, System Activity, Help & Support, and Logout. The main area has a pink header bar with the title "User Management". Below the header is a table with 11 rows of user data. The columns are labeled: #, Username, Email, Status, Suspension Reason, and Actions. The "Actions" column contains buttons for View Details, Suspend, Delete, Reactivate, and View Appeal, except for the last row which only has View Details, Reactivate, View Appeal, and Delete.

#	Username	Email	Status	Suspension Reason	Actions
1	IssyeCooks	issye03@gmail.com	Active	N/A	View Details Suspend Delete
2	cozykitchen@it	itsupport@ck.com	Active	N/A	View Details Suspend Delete
3	arianagrande	arianagrande@work.com	Active	N/A	View Details Suspend Delete
4	fattahamin	fattah.work@gmail.com	Active	N/A	View Details Suspend Delete
5	pastryQueen	lilysha@gmail.com	Active	N/A	View Details Suspend Delete
6	daniellee	daniellee@gmail.com	Active	N/A	View Details Suspend Delete
7	camilia	camilia@gmail.com	Active	N/A	View Details Suspend Delete
8	michelleyeoh	michelleyeoh@gmail.com	Active	N/A	View Details Suspend Delete
9	manothevar	manothevar@gmail.com	Active	N/A	View Details Suspend Delete
10	EkaRamsay	zulaikhaewan@gmail.com	Active	N/A	View Details Suspend Delete
11	leyasarah	leyasarah@user.com	Suspended	Posting offensive, harmful, or inappropriate content	View Details Reactivate View Appeal Delete

Figure 7.3.2

7.3.3 User Management - View Details

The **View Details** page in **User Management** provides administrators with a detailed view of a specific user's information and activity on the platform. In addition to viewing user details, administrators can access a list of **Recipes Posted** by the user. For each recipe, the admin can **View the Full Recipe** and **Delete the Recipe**.

This section helps administrators monitor user activities and manage content efficiently while ensuring compliance with platform standards.

[Back to Admin Panel](#)

leyasarah

User ID: 14

Email: leyasarah@user.com

Phone: 0147205674

Address: 61,Cyberjaya

Gender: Female

Account Created: 2025-02-11 00:02:17

Recipes Posted by leyasarah



Halal Chicken Karaage (鶏の唐揚げ)

Rating: No ratings yet (0 reviews)

[View Recipe](#) [Delete](#)



Beef Gyudon (牛丼)

Rating: No ratings yet (0 reviews)

[View Recipe](#) [Delete](#)



Sushi Roll (California Roll)

Rating: No ratings yet (0 reviews)

[View Recipe](#) [Delete](#)



Japanese Purin (Caramel Custard Pudding)

Rating: No ratings yet (0 reviews)

Rating: No ratings yet (0 reviews)

[View Recipe](#) [Delete](#)

Figure 7.3.3

7.3.4 User Management - Suspend

The **Suspend User** feature in **User Management** allows administrators to temporarily disable a user's account. When initiating a suspension, the system prompts the admin to **Enter a Reason for Suspension**, which will be recorded and displayed in the user's status history.

Once the suspension is confirmed, the following actions occur:

- The **User Status** is updated from *Active* to *Suspended*.
- The user receives a **Notification** informing them about the account suspension, including the reason provided by the admin.

Appeal Process:

Suspended users have the option to submit an **Appeal Letter** through the platform, requesting reactivation of their account. The appeal is sent directly to the admin for review.

Admin Decision:

After reviewing the appeal, the admin can either:

- **Reactivate the Account**, restoring the user's status to *Active*.
- **Maintain the Suspension**, keeping the account disabled.

This process ensures fairness while giving administrators full control over user account management and the ability to respond to user appeals appropriately.

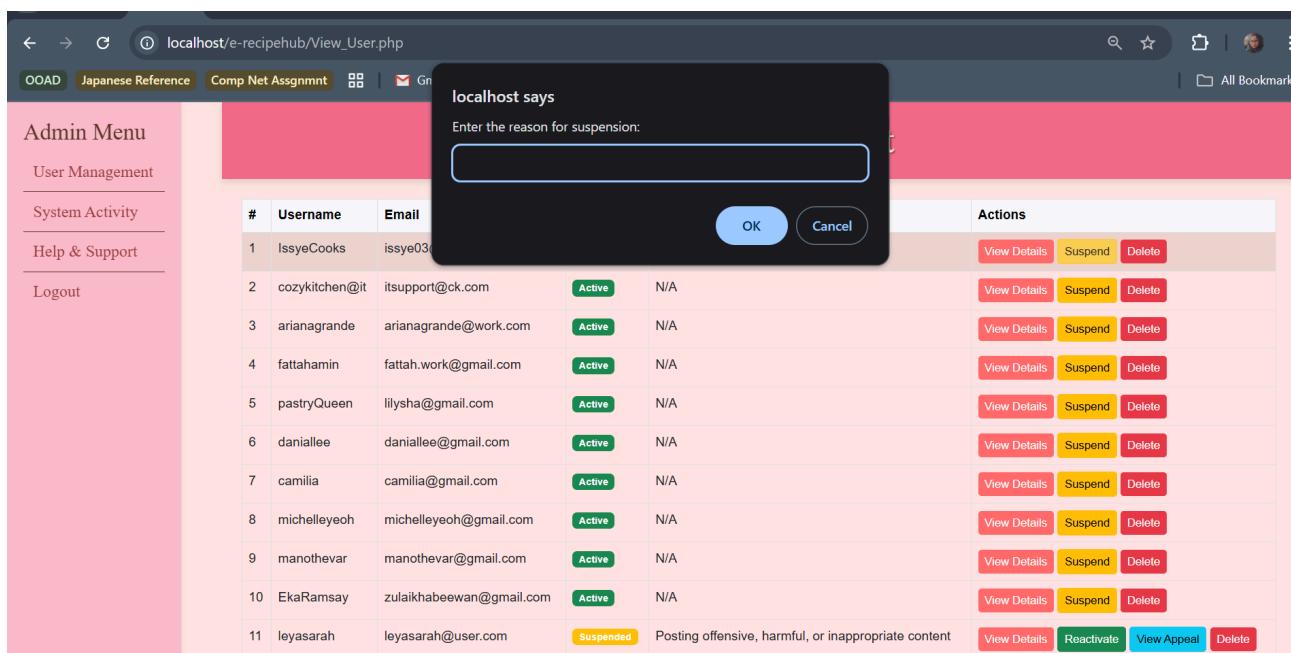


Figure 7.3.4

7.3.5 System Activity

The **System Activity Monitor** provides administrators with a comprehensive view of the platform's activity and performance. At the top of the page, a **Graphical Overview** displays the **Weekly System Activity for User Logins**, representing trends in user logins over the past week.

Below the graph, a **Detailed Activity Log** lists individual user activities, including the username, action, the exact timestamp of activity and the status indication whether the action was successful, failed, or a log out event.

This section helps administrators track system usage and monitor user activities for security and performance purposes.

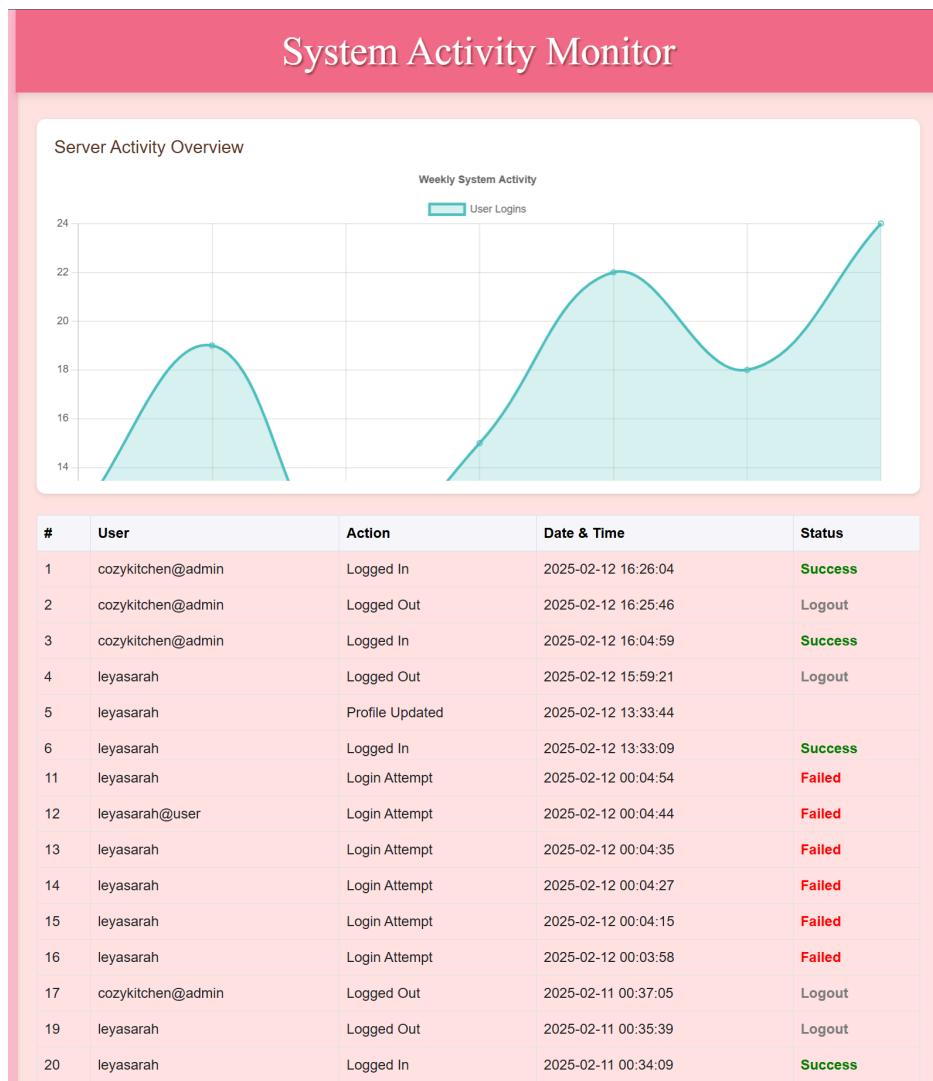


Figure 7.3.5

7.3.6 Report Technical Issue

The **Reporting Technical Issues** page allows administrators to submit detailed reports about system-related problems. The **Technical Issue Report Form** requires the admin to enter the Issue Title, Description and Priority Level. After completing the form, the admin must click the Submit button. The report will be sent directly to the IT Support for further investigation and resolution.

This system ensures that technical issues are logged and prioritized appropriately for timely action and support.

Admin Menu

User Management

System Activity

Help & Support

Logout

Report Technical Issues

Submit a Technical Issue

Issue Title

Enter a brief issue title

Description

Describe the issue in detail

Priority

Low

Submit Issue

Figure 7.3.6

7.4 IT Support Page

7.4.1 IT Support Home Page

The **IT Support Homepage** provides IT support staff with an overview of the system's status and access to the **Resolution Logs**. These logs contain detailed records of resolved technical issues, which help in tracking and managing the system performance and stability.

Each entry in the **Resolution Logs** displays the Issue Title, Description, Priority Level, Status and the Updated Timestamp .Thus, the IT Support Homepage serves as a central hub for monitoring technical issues and maintaining system reliability.

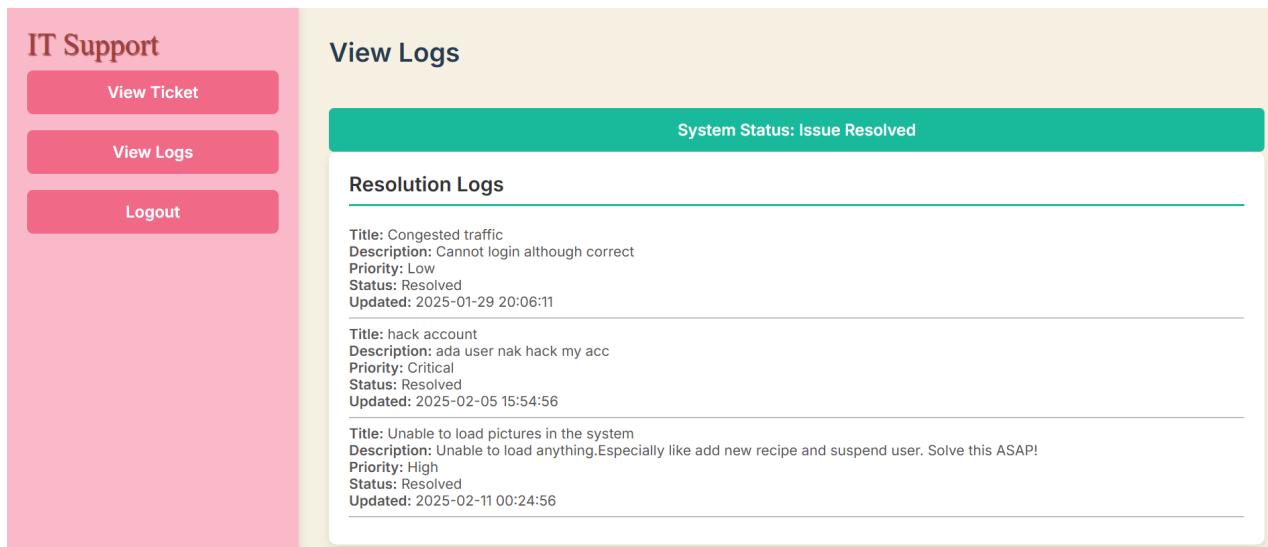


Figure 7.4.1

7.4.2 View Ticket

The **View Ticket** page in the **IT Support** module displays a list of all reported technical issues. Each entry includes key information and a **View** button for accessing full details. When the **View** button is clicked, the platform opens a detailed view of the reported issue, displaying Issue Title, Description, Priority Level and Status.

At the end of the issue details, there is a **Resolve** button. When the admin clicks **Resolve**, a confirmation popup appears with the message: "*The issue has been marked as resolved.*" Once confirmed, the issue is removed from the **View Ticket** page and added to the **Resolution Logs** for future reference.

The screenshot shows the 'View Ticket' page under the 'IT Support' module. On the left sidebar, there are three buttons: 'View Ticket' (highlighted in pink), 'View Logs', and 'Logout'. The main content area is titled 'View Ticket' and contains a section titled 'Reported Issues'. It lists two entries:

- Hacker sent threats**:
Description: A hacker has been sending spam messages in an attempt to hack our website. So far, there have been 55 attempts.
Status: Not Resolved
Priority: Critical
Resolve (button)
- Data Leakage – Incorrect Data Visibility**:
View (button)

Figure 7.4.2

7.4.3 View Logs

The **View Logs** page allows IT Support to access and review a complete history of resolved issues. Each log entry provides detailed information, including Issue Title, Description, Priority Level, status (marked as Resolved) and Resolve Date and Time.

An additional feature on this page is the ability to **Export Logs to a CSV File**. This export function allows IT Support to generate and download a structured file containing the complete log history for record-keeping, analysis, or reporting purposes.

The screenshot shows the 'View Logs' page under the 'IT Support' menu. The left sidebar has three buttons: 'View Ticket', 'View Logs' (which is highlighted in pink), and 'Logout'. The main area is titled 'View Logs' and contains a table with the following data:

Issue Title	Description	Priority	Status	Resolved Date
Unable to load pictures in the system	Unable to load anything. Especially like add new recipe and suspend user. Solve this ASAP!	High	Resolved	2025-02-11 00:24:56
hack account	ada user nak hack my acc	Critical	Resolved	2025-02-05 15:54:56
Congested traffic	Cannot login although correct	Low	Resolved	2025-01-29 20:06:11

Figure 7.4.3

8 Conclusion

8.1 Summary of Results

The E-Recipe Hub is a well-organised online platform with an interactive and user-friendly design for recipe sharing and discovery. The system provides a seamless experience through its core functionalities, that allow users to register, recipe creation, recipe editing, and delete recipes, as well as engage with content through bookmarking or saves, rating, and sharing. Registered users can contribute by submitting, rating, and saving recipes, and develop a dynamic and collaborative community. Administrative features have been implemented, allowing administrators to track user activity, enforce platform policies, and manage user accounts. Furthermore, IT support functionalities have been included to maintain system performance by conducting routine maintenance, and technical difficulties resolution. IT support also has dedicated specific tools for troubleshooting, system updates, and maintenance, assuring smooth operation with minimal downtime. Both aspects are intended to conserve operational efficiency. This system was developed using modern web technologies and has undergone some testing such as system testing and acceptance testing to validate the functionality, security, and usability of the platform and ensure its stability and performance. Overall, E-Recipe Hub is a fully functional prototype for a recipe-sharing website that provides an engaging and user-friendly interface.

8.2 Problems Encountered

Throughout the development process, obstructions emerged, including personal difficulties such as time constraints due to multiple assignments having the same deadline, as well as the need to balance various academic and personal engagements. In order to address the challenges, we decided to assign the task for each team member based on their expertise and maintaining regular communication through meetings and online collaboration tools. Code reviews and peer testing helped to balance various academic and personal obligations. identify and resolve issues more efficiently. When conflicts occurred, the team actively engaged in discussions to find best solutions and ensured that project milestones were fulfilled on time. As a result, the E-Recipe Hub satisfies all the functional criteria, delivering a dependable and efficient platform that enhances user involvement and encourages a collaborative culinary community. The system works as a scalable platform for future enhancements, ensuring continuous improvement and responsiveness to user requirements.

9 User Guide

9.1 User guide

When they first access the system, depending on their account type, users can explore a variety of features on the homepage. Visitors can examine details, filter search results, browse or search for recipes, and share recipes. In order to access more sophisticated features like rating recipes, saving favourite recipes, and creating new ones, users must register and log in.

Registered users can navigate to the profile page after log in, where they have complete control over their profiles and contributions. They can create, rate, edit, or delete recipes and save recipes they find interesting. Additionally, they can edit their profile details as needed. Users can submit a suspension appeal for review if their account has been suspended. They can secure their account by logging out after they finish browsing. If they have entered the incorrect password five times, they will be prevented from accessing their account for safety reasons.

Administrators log in to access the admin dashboard, where they monitor system activity and user interactions. They are responsible for managing user accounts, including reactivating, suspending, or deleting accounts when necessary. Admins also oversee recipe posts to ensure compliance with guidelines and review user appeals. If technical issues arise, they can escalate the problem by submitting an IT support request.

IT support handles technical difficulties within the system. They begin by logging into the IT dashboard where they receive trouble reports. After examining the reported problems, they will update the issue log and proceed with troubleshooting. Once the issues have been rectified, they log out, ensuring that the system remains operational and efficient