



**Title** : Responsive Web Design & Development Group Assignment - Proposal

**Intake Code** : UCDF2309ICT(SE)

**Module Code** : AAPP012-4-2-RWDD

**Level of Study** : Diploma Semester 4

**Project Title** : Goalify

**Module Lecturer** : Mr. Daniel Mago Vistro  
Mr. Mohamad Firdaus Che Abdul Rani

**Hand Out Date** : 6 January 2025

**Submission Date** : 24 January 2025

**Group No.** : Group 1

**Group Members:**

NO	Name	Student ID
1	Lim Chee Xuan	TP 075916
2	Lum Han Xun	TP 076160
3	Ng Yvonne	TP 076390
4	Paureen Tan Nie Nie	TP 075914
5	Phang Shea Wen	TP 075813

## Table of Contents

---

<b>1.0 Introduction.....</b>	<b>5</b>
<b>    1.1 Title and Target Users of the Web Application.....</b>	<b>5</b>
<b>    1.2 Objectives of the Project.....</b>	<b>6</b>
<b>2.0 Background Analysis and Requirement Gathering .....</b>	<b>7</b>
<b>    2.1 Web Application Context .....</b>	<b>7</b>
<b>    2.2 End-user .....</b>	<b>7</b>
<b>    2.3 End-user Functional Requirements.....</b>	<b>8</b>
<b>    2.4 Non-Functional Requirements .....</b>	<b>8</b>
<b>3.0 Flowchart.....</b>	<b>9</b>
<b>    3.1 User.....</b>	<b>9</b>
<b>        3.1.1 Task Management .....</b>	<b>10</b>
<b>        3.1.2 Collaboration Features.....</b>	<b>11</b>
<b>        3.1.3 Productivity Analytics.....</b>	<b>12</b>
<b>        3.1.4 Time-tracking.....</b>	<b>13</b>
<b>        3.1.5 Goal Setting.....</b>	<b>14</b>
<b>    3.2 Admin .....</b>	<b>15</b>

<b>3.2.1 Dashboard .....</b>	16
<b>3.2.2 User Metrics .....</b>	17
<b>3.2.3 Engagement Metrics.....</b>	18
<b>3.2.4 Productivity Metrics.....</b>	19
<b>3.2.4 System Health .....</b>	20
<b>4.0 ERD Diagrams .....</b>	21
<b>4.1 Data Dictionary .....</b>	22
<b>5.0 Wireframe.....</b>	31
<b>6.0 Navigational Structure .....</b>	34
<b>7.0 References.....</b>	36
<b>8.0 Workload Matrix .....</b>	37

## 1.0 Introduction

In the ever-evolving world, increasing productivity could be a vital strategy to address different kinds of challenges, such as striving for competitive advantages, improving quality of life and promoting economic growth. According to Josh Howarth, 71% of business leaders are pressured by executives to foster employee productivity. About 80-95% of college students suffer from procrastination in their academics (Jude, n.d.). These statistics indicate that low productivity and lack of time management skills might affect the overall outcomes of the given tasks or projects. Our team has proposed a web application that allows the community to enhance their productivity.

### 1.1 Title and Target Users of the Web Application

The title of the web application is “Goalify” as it clearly emphasizes that the main role of the application is to achieve goals effectively, efficiently and productively. It is simple and easy to understand to reduce the effort on guessing its general functions because people can immediately associate the application as a tool to manage tasks’ completion time, streamline the workflow and collaboration. “Goalify” is said to be responsive as it’s interface size in different types of devices such as desktops, tablets and mobile phones is in the same ratio.

The target users of “Goalify” include anyone seeking better productivity and needing an application to help them manage tasks and deadlines. For instance, professionals and entrepreneurs can use this tool to organize tasks, manage time and make informed decisions. Students and educators can benefit from handling assignments, tracking study hours and setting academic goals. Remote workers can improve collaboration, enhance effective communication and streamline workflows by utilizing the collaboration features. With these useful features, “Goalify” caters to the requirements of users aiming to stay organized and efficient.

## 1.2 Objectives of the Project

The objective of creating “Goalify” is to **streamline task management** in daily scenarios, as it provides various useful features to effectively organize, prioritize and track tasks. Users are able to focus on high-prioritize tasks and track the progress of projects with real-time updates, therefore improving tasks planning. With clearer tasks management, “Goalify” not only boosts overall efficiency and performance, but also reduces task-related stress.

“Goalify” also tends to **improve time utilization** by providing an intuitive and visualized task scheduling system. Users can gain a clearer understanding of their daily workload and prepare accordingly, thereby reducing time wastage. By utilizing the time-tracking features, users can monitor the time spent on various tasks and projects. Therefore, users can identify and analyze their inefficiency and time management habits, which are helpful in aiding them to practice better time management skills.

Furthermore, “Goalify” can **enhance collaboration**. Users can assign their tasks among team members and share relevant files easily to complete a project. Team leaders are able to set deadlines and monitor each member’s progress in real-time to ensure overall productivity. The visibility of the progression increases transparency and avoids unnecessary arguments, providing a cohesive work environment with clear accountability. By using “Goalify”, the scheduled projects will be accomplished on time with clearer task division.

## 2.0 Background Analysis and Requirement Gathering

### 2.1 Web Application Context

“Goalify” offers various features designed to streamline workflow and increase efficiency. The **task management** system allows users to create, monitor and prioritize tasks through features such as reminders, categories and deadlines. Users can also define long-term and short-term goals, receive reminders and track their progress with the **goal setting** features. Therefore, users can stay motivated and ensure that they stay on track. The **time tracking** tool allows users to monitor the time spent on various projects and tasks, which provides users insight into their time management habit and work efficiency. Additionally, the **collaboration** features play a vital role in enhancing teamwork, as it provides users with the ability to work together on shared tasks and projects, with additional tools like file sharing, comments and real-time updates. Last, the **productivity analytics** feature delivers data-driven insights that help users to identify trends and improve overall performance.

### 2.2 End-user

- User
- Administrator

## 2.3 End-user Functional Requirements

Student can be able to:	
<ul style="list-style-type: none"><li>• Create a new account or log in to existing account.</li><li>• Access to the to-do list<ul style="list-style-type: none"><li>◦ View their task in to-do list</li><li>◦ Add their task in to-do list</li><li>◦ View task timeline of the current day</li><li>◦ View task status</li></ul></li><li>• Access to the workspace feature<ul style="list-style-type: none"><li>◦ Create a workspace</li><li>◦ View the workspace's details (Projects, members and descriptions)</li></ul></li></ul>	<ul style="list-style-type: none"><li>• View their achievements</li><li>• Track their time when doing a task</li><li>• View or add their goals<ul style="list-style-type: none"><li>◦ Short-term goal</li><li>◦ Long-term goal</li></ul></li><li>• Access to the inbox to get information</li><li>• Access to the help section to get assistance</li><li>• Access to their profile<ul style="list-style-type: none"><li>◦ Edit their personal information</li><li>◦ Change their account password</li><li>◦ Log out</li></ul></li></ul>
Administrator can be able to:	
<ul style="list-style-type: none"><li>• Log in to their admin account.</li><li>• Access admin's dashboard to manage backend system.</li></ul>	

## 2.4 Non-Functional Requirements

- The web application shall be accessible across different devices.
- The web application shall protect user privacy.

### 3.0 Flowchart

#### 3.1 User

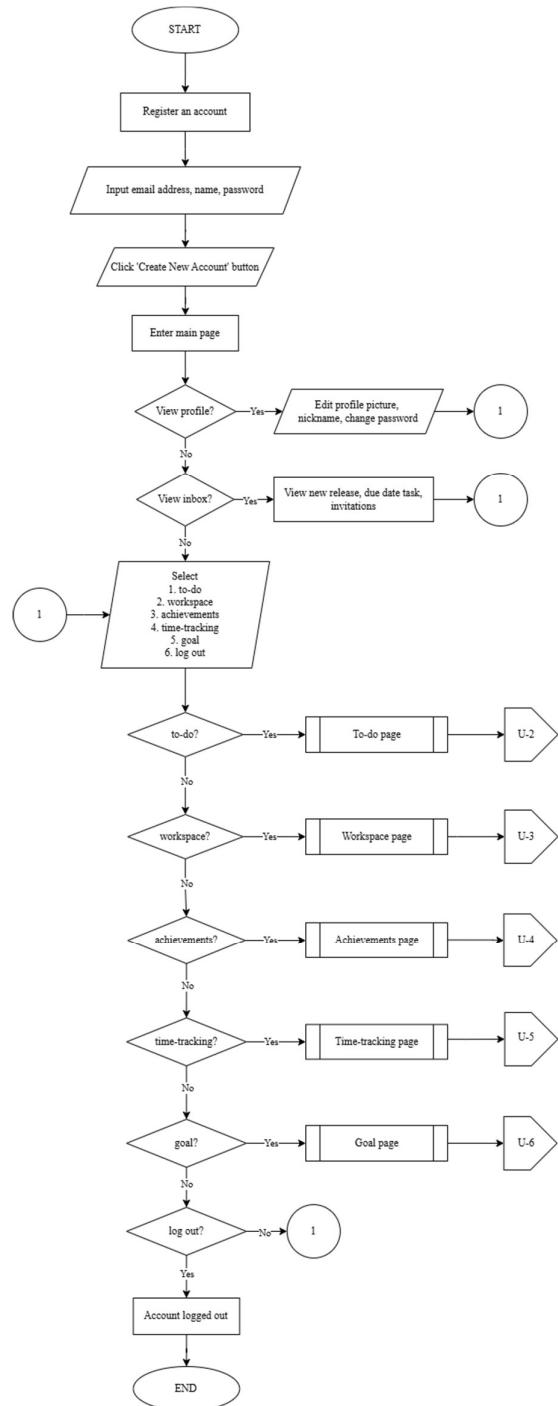


Figure 3.1 User

### 3.1.1 Task Management

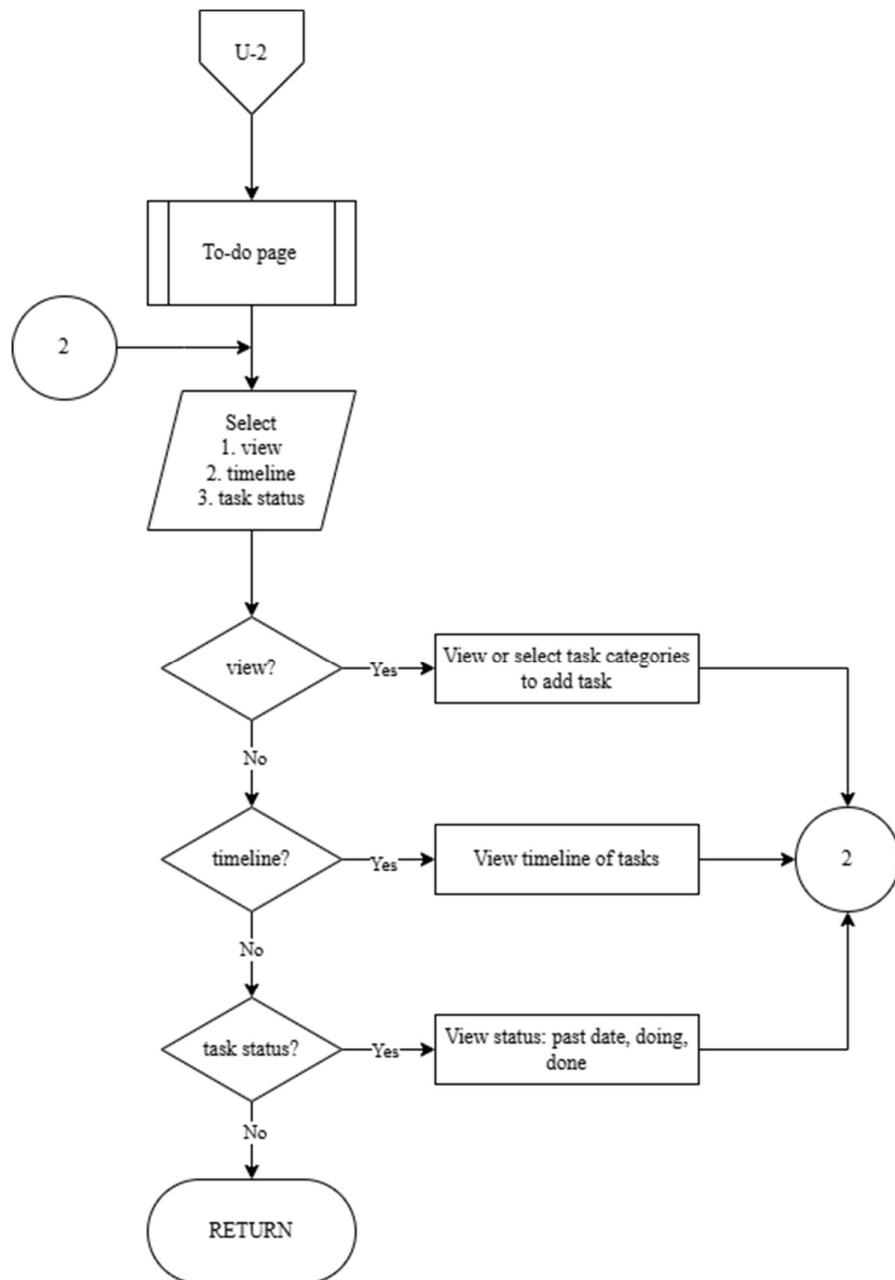


Figure 3.1.1 Task Management

Page U-2

### 3.1.2 Collaboration Features

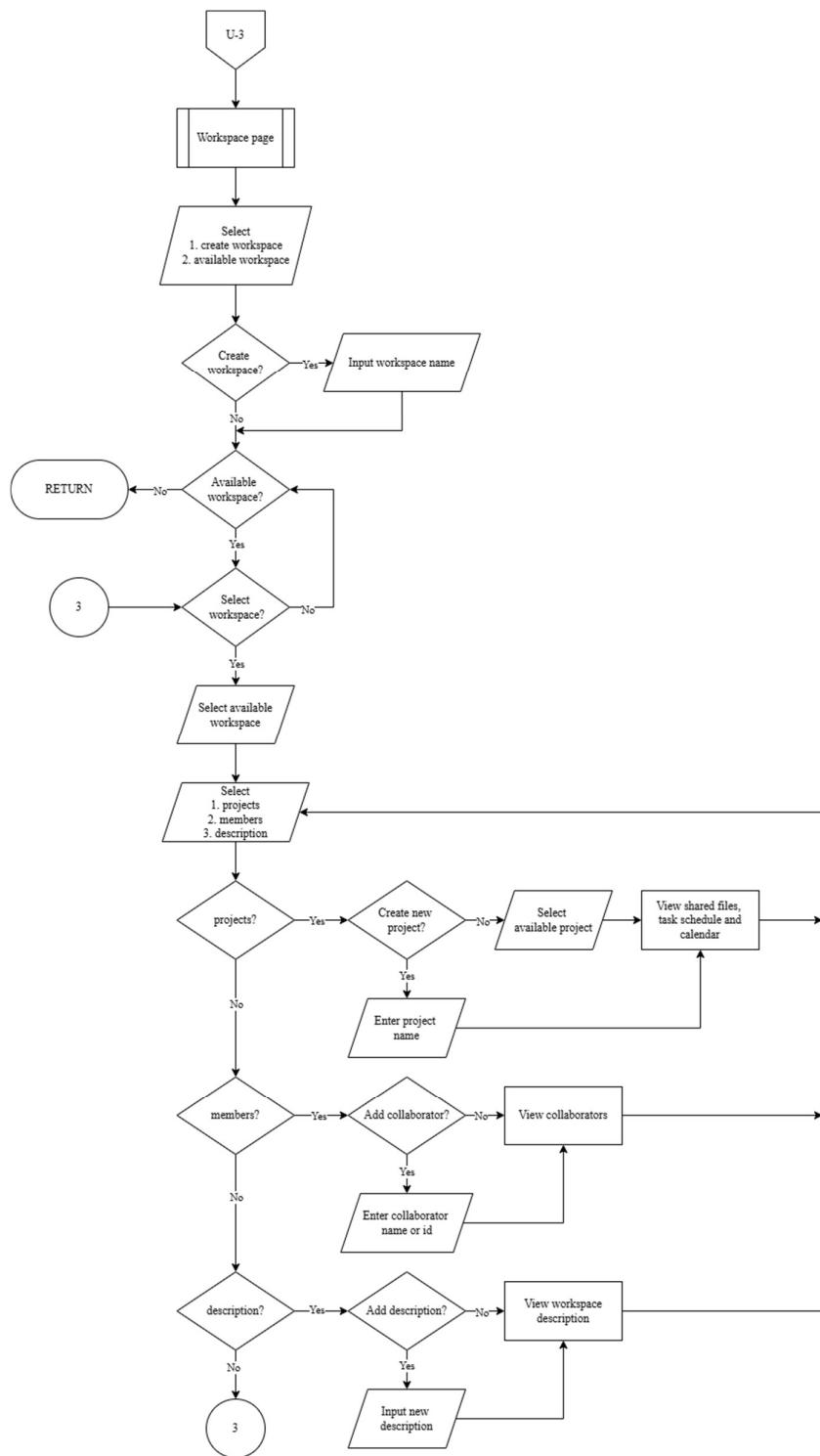


Figure 3.1.2 Collaboration Features

### 3.1.3 Productivity Analytics

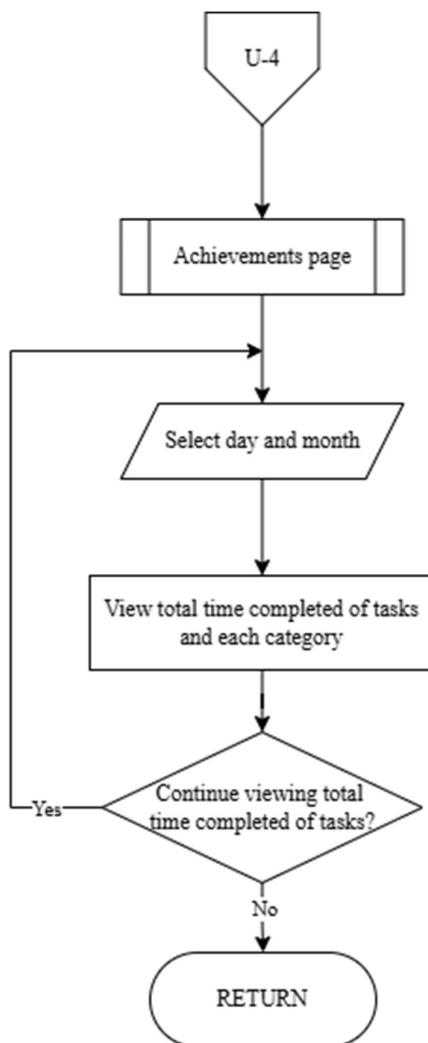


Figure 3.1.3 Productivity Analytics

Page U-4

### 3.1.4 Time-tracking

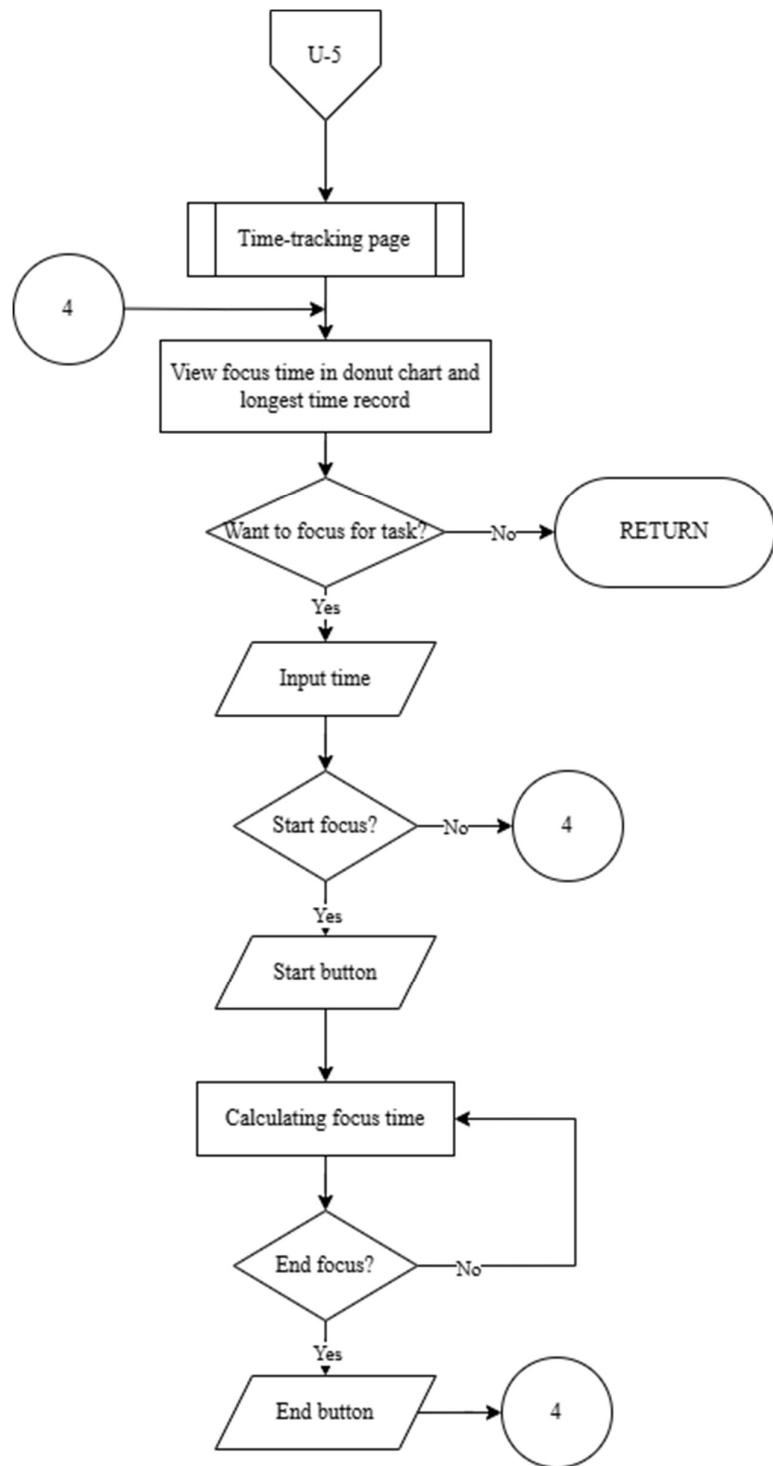


Figure 3.1.4 Time-tracking

### 3.1.5 Goal Setting

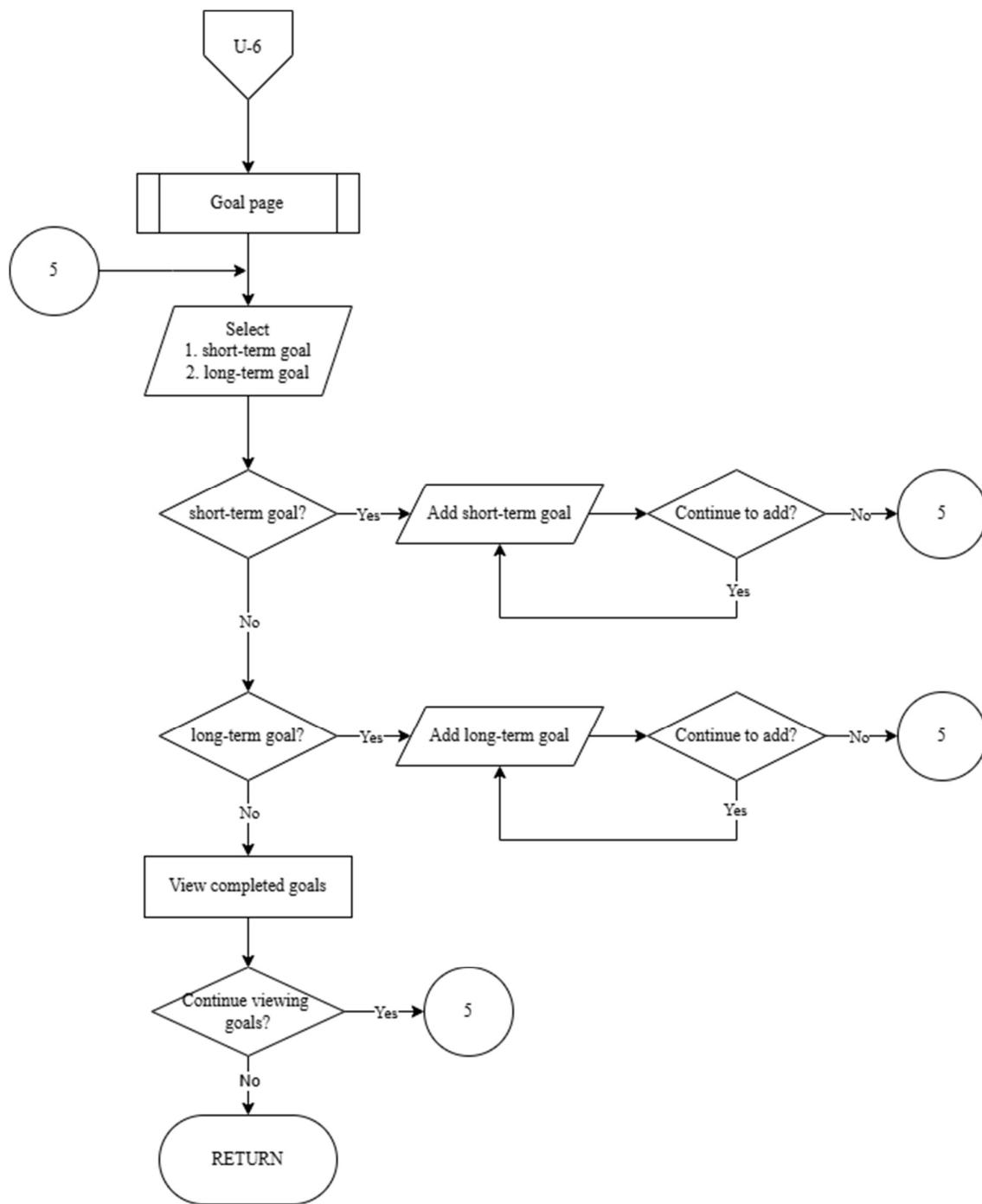


Figure 3.1.5 Goal Setting

Page U-6

### 3.2 Admin

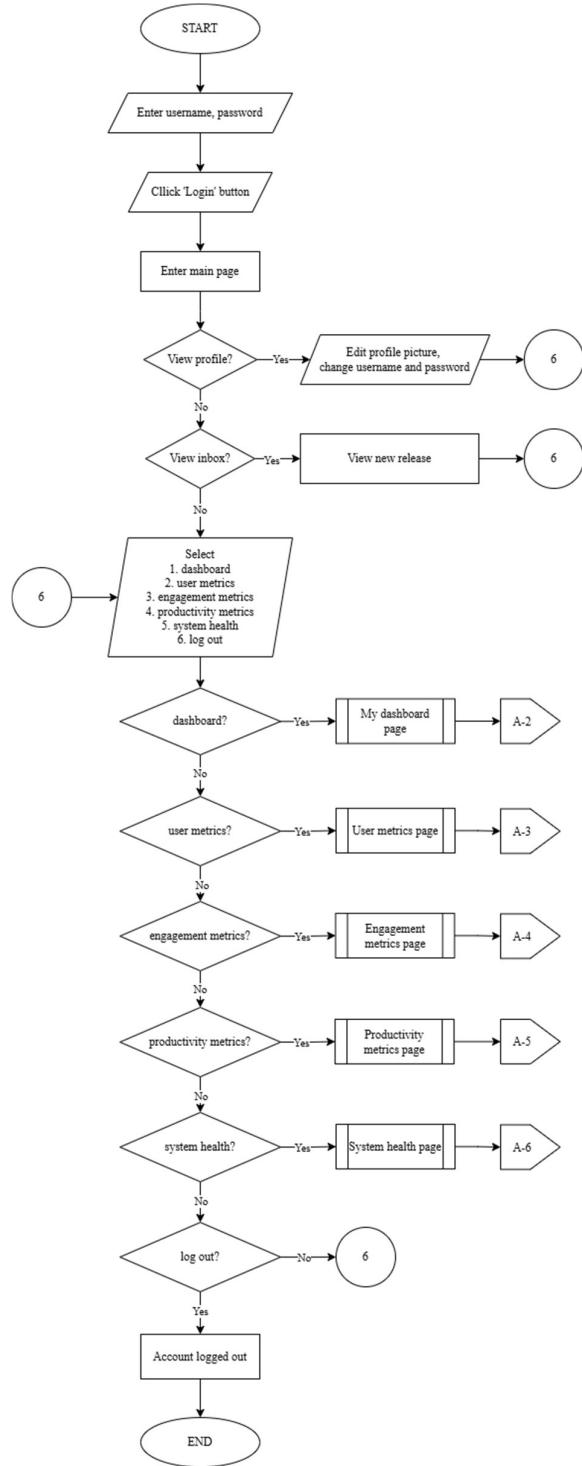


Figure 3.2 Admin

### 3.2.1 Dashboard

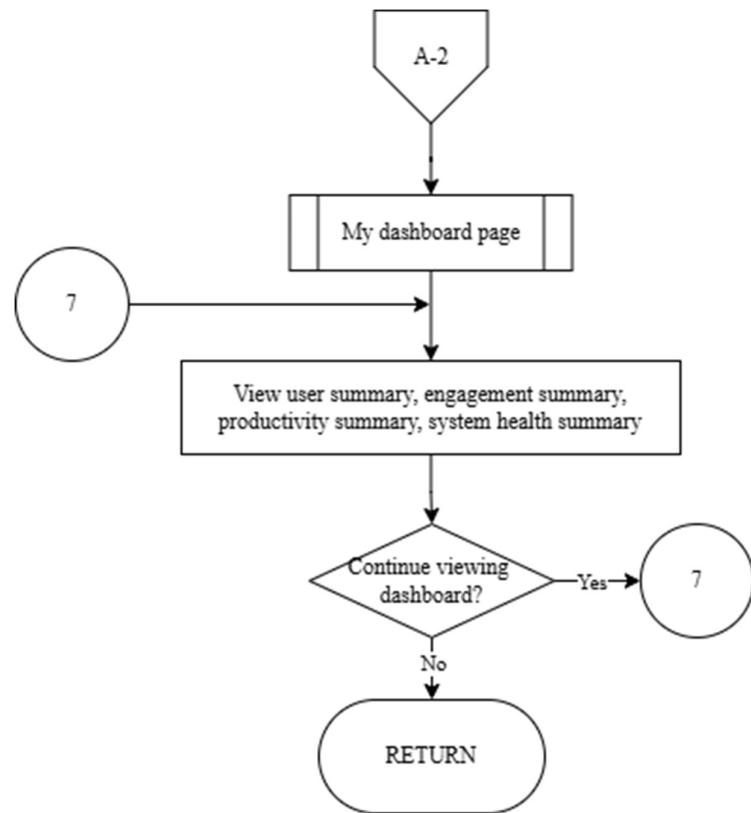


Figure 3.2.1 Dashboard

Page A-2

### 3.2.2 User Metrics

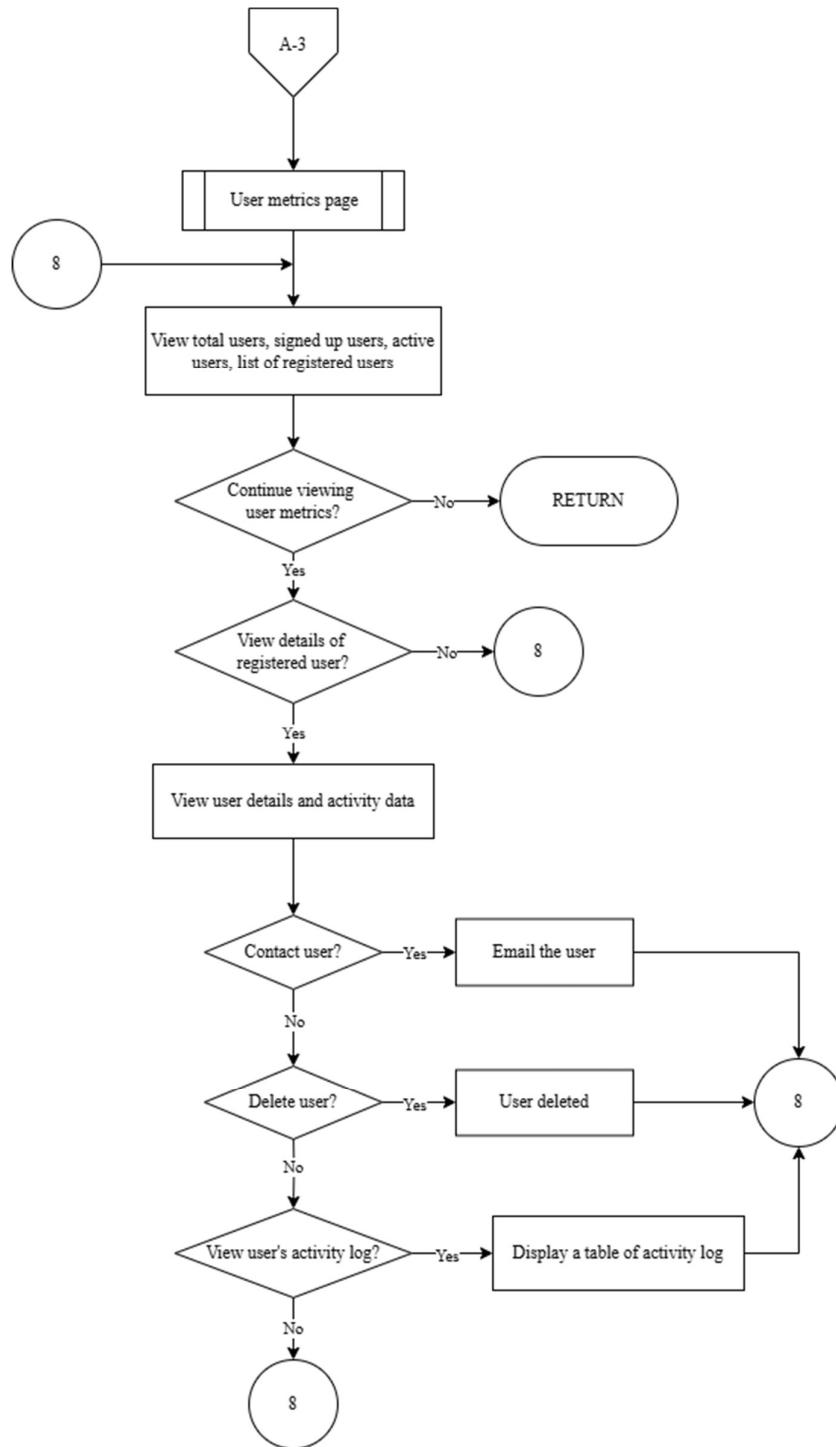


Figure 3.2.2 User Metrics

### 3.2.3 Engagement Metrics

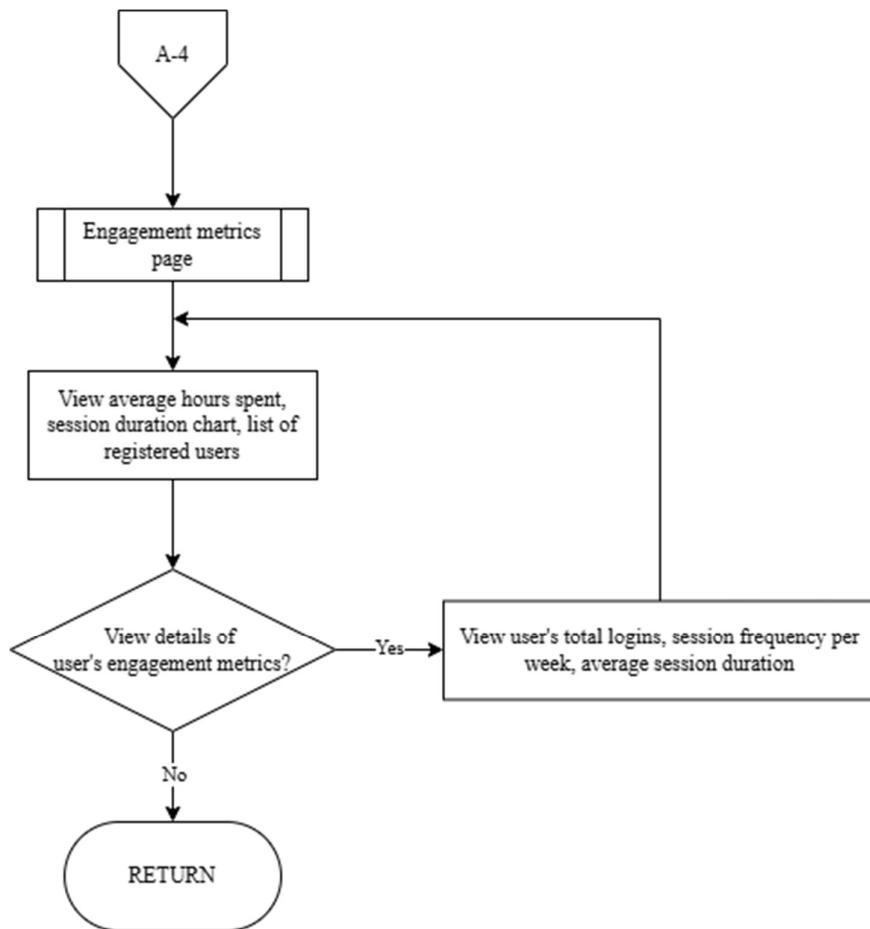


Figure 3.2.3 Engagement Metrics

Page A-4

### 3.2.4 Productivity Metrics

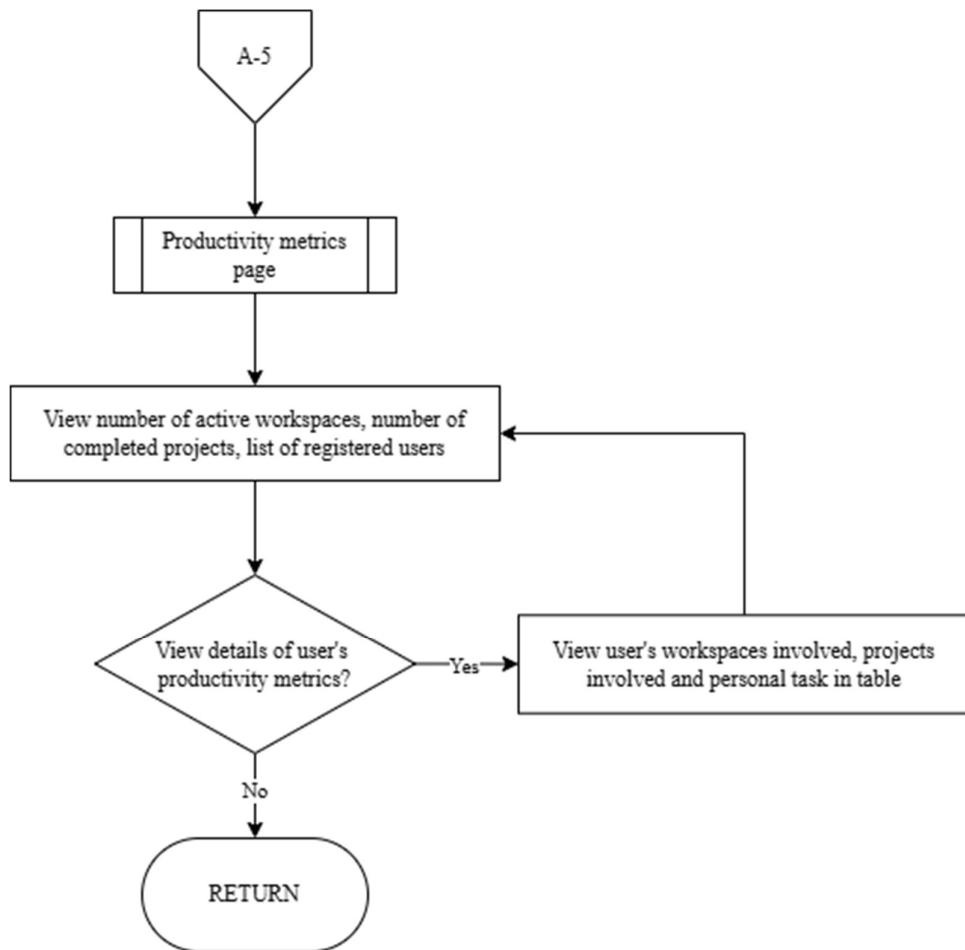


Figure 3.2.4 Productivity Metrics

Page A-5

### 3.2.4 System Health

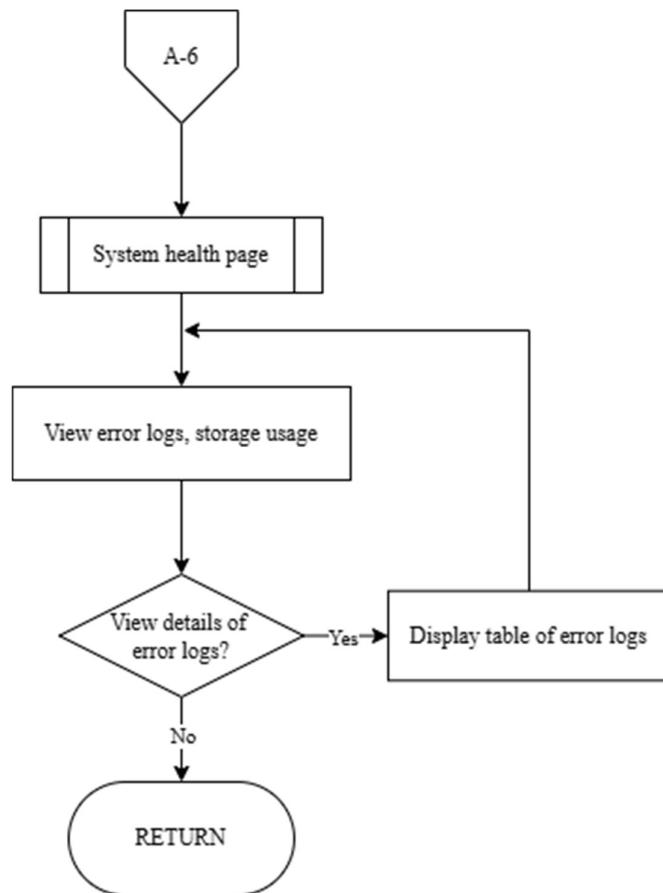


Figure 3.2.4 System Health

Page A-6

## 4.0 ERD Diagrams

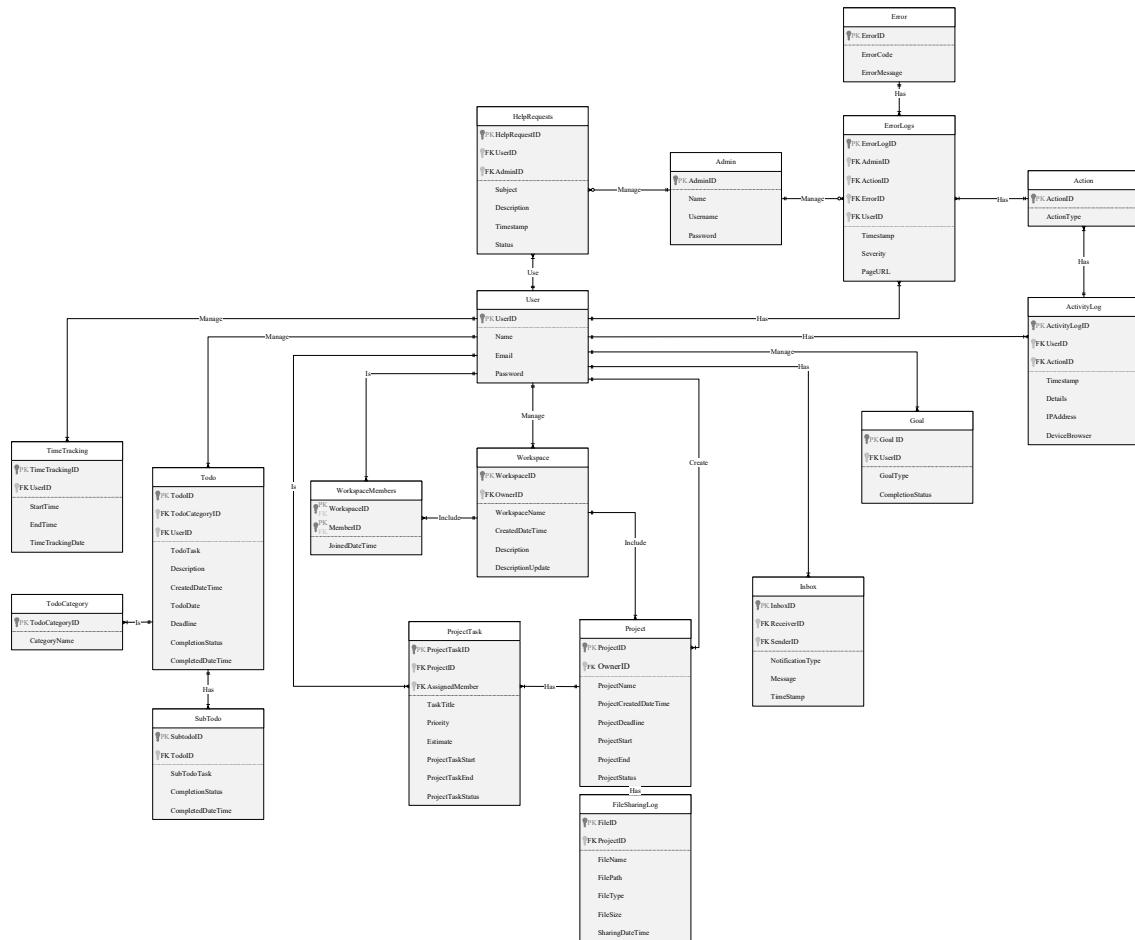


Figure 4.0 ERD Diagram

#### 4.1 Data Dictionary

Entity	Attribute	Data Type	Length	Description	Example Input
User	UserID	String	10	Primary key, a unique identifier for each user	UID001
	Name	String	50	Name of user	Mr Meow
	Email	String	50	Email of user	meowmeow@g mail.com
	Password	String	100	Password for user to login	Meoww_33
Admin	AdminID	String	10	Primary key, a unique identifier for each admin	A001
	Name	String	50	Name of admin	Ms Meow
	Username	String	50	Username of admin	msmeowhere
	Password	String	100	Password for admin to login	Admin_meow
TodoCategory	TodoCategoryID	String	10	Primary key, a unique identifier for each to-do list category	TDC001
	CategoryName	String	50	Name of to-do list category	Important and urgent
Todo	TodoID	String	10	Primary key, a unique identifier for each to-do task	TD001
	TodoTask	String	100	Name of to-do task	RWDD Proposal
	Description	String	800	Details of each specific to-do task	Assignment due on WEEK 5

	CreatedDateTime	Datetime	N/A	Date and time of to-do task created	2025-1-6 13:10:18
	TodoDate	Date	N/A	Date of to-do task created	6 January 2025
	Deadline	Datetime	N/A	Deadline set for each to-do task	2025-1-24 00:00:00
	TodoStatus	String	20	Completion status of to-do task	Completed
	CompletedDateTime	Datetime	N/A	Date and time of to-do task completion	2025-1-21 20:18:02
	TodoCategoryId	String	10	Foreign key, references TodoCategoryID in TodoCategory	TDC001
	UserId	String	10	Foreign key, references UserID in User	UID001
SubTodo	SubTodoID	String	10	Primary key, a unique identifier for each sub to-do task.	STD001
	SubTodoTask	String	100	Name of sub to-do task	ERD Diagram
	CompletionStatus	String	10	Completion status of sub to-do task	Completed
	CompletedDateTime	Datetime	N/A	Date and time of sub to-do task completion	2025-1-21 18:46:33
	TodoId	String	10	Foreign key, references TodoID in Todo	TD001

Workspace	WorkspaceID	String	10	Primary key, a unique identifier for each workspace.	
	WorkspaceName	String	20	Name of workspace	RWDD Group 1
	CreatedDateTime	Datetime	N/A	Date and time of workspace created	2025-1-6 22:00:21
	OwnerID	String	10	Foreign key, references UserID in User	UID001
	Description	String	800	Brief introduction of workspace	A workspace to work together in RWDD
	DescriptionUpdate	Datetime	N/A	Date and time of most recent description update	2025-1-7 14:02:52
WorkspaceMembers	WorkspaceID	String	10	Foreign key, references WorkspaceID in User	WID001
	MemberID	String	10	Foreign key, references UserID in User	UID001
	JoinedDateTime	Datetime	N/A	Date and time of joining workspace	2025-1-7 16:50:13
Project	ProjectID	String	10	Primary key, a unique identifier for each project.	P001
	ProjectName	String	50	Name of project	RWDD Productivity Website

	ProjectCreatedDate	Datetime	N/A	Date and time of project created	2025-1-10 13:50:14
	ProjectDeadline	Datetime	N/A	Deadline set for project	2025-1-10 13:50:14
	ProjectStart	Datetime	N/A	Date and time of project initiation	2025-3-30 00:00:00
	ProjectEnd	Datetime	N/A	Date and time of project completed	2025-2-29 16:05:44
	ProjectStatus	String	20	Completion status of project	In progress
	OwnerId	String	10	Foreign key, references UserID in User	UID001
ProjectTask	ProjectTaskID	String	10	Primary key, a unique identifier for each project task	PT001
	ProjectID	String	10	Foreign key, references ProjectID in Project	P001
	AssignedMember	String	10	Foreign key, references UserID in User	UID001
	TaskTitle	String	50	Title name of project task	Navigational Structure
	Priority	String	10	Priority level of project task	High
	Estimate	String	20	Time estimated for project task completion	5 hours

	ProjectTaskStart	Datetime	N/A	Date and time of project task initiation	2025-1-10 14:08:12
	ProjectTaskEnd	Datetime	N/A	Date and time of project task completion	2025-1-10 17:54:15
	ProjectStatus	String	20	Completion status of project task	Done
FileSharingLog	FileID	String	10	Primary key, a unique identifier for each file activity log	F001
	ProjectID	String	10	Foreign key, references ProjectID in Project	P001
	FileName	String	50	Name of file uploaded	RWDD_Proposal.pdf
	FilePath	String	500	Path of file	RWDD_Group_1/
	FileType	String	10	Type of file	pdf
	FileSize	String	5	Size of file	6142 KB
	SharingDateTime	Datetime	N/A	Date and time of file sharing	2025-1-15 13:42:36
TimeTracking	TimeTrackingID	String	10	Primary key, a unique identifier for each time tracking activity	TT001
	UserID	String	10	Foreign key, references UserID in User	UID001

	StartTime	Time	N/A	Date and time of starting time tracker	13:52:10
	EndTime	Time	N/A	Date and time of stopping time tracker	15:00:42
	TimeTrackingDate	Date	N/A	Date of time tracking activity	2025-1-18
Goal	GoalID	String	10	Primary key, a unique identifier for each goal	GID001
	UserID	String	10	Foreign key, references UserID in User	UID001
	GoalType	String	20	Long-term or short-term goals	Short-term
	CompletionStatus	String	50	Completion status of goal	Completed
Inbox	InboxID	String	10	Primary key, a unique identifier for each inbox	IID001
	ReceiverID	String	10	Foreign key, references UserID in User	UID001
	SenderID	String	10	Foreign key, references UserID in User	UID002
	NotificationType	String	25	Type of notification message	Invitation
	Message	String	100	Content of the message	Meow invited you to "RWDD

					Group 1” workspace
	Timestamp	Timestamp	N/A	Timestamp of notification sent	2025-1-7 15:00:32
Action	ActionID	String	10	Primary key, a unique identifier for each user action.	AID001
	ActionType	String	50	Type of system action performed	Create Workspace
ActivityLog	ActivityLogID	String	10	Primary key, a unique identifier for each user activity.	ALID001
	UserID	String	10	Foreign key, references UserID in User	UID001
	Timestamp	Timestamp	N/A	Timestamp of activity	2025-1-6 22:00:21
	ActionID	String	10	Foreign key, references ActionID in Action	AID001
	Details	String	800	Specific description of activity happened	Create a new workspace named “RWDD Group 1”
	IPAddress	String	20	IP address of user device	192.168.1.2
	DeviceBrowser	String	50	Type of device browser	Chrome on Windows 10

Error	ErrorID	String	10	Primary key, a unique identifier for each user error	EID001
	ErrorCode	String	10	A unique code for each error	Authentication
	ErrorMessage	String	50	Description of the error	Invalid credentials entered during login.
ErrorLogs	ErrorLogID	String	10	Primary key, a unique identifier for each error log	ELID001
	AdminID	String	10	Foreign key, references AdminID in Admin	A001
	ActionID	String	10	Foreign key, references ActionID in Action	AID001
	Timestamp	Timestamp	N/A	Timestamp of error logged	2025-1-9 08:30:12
	ErrorID	String	10	Foreign key, references ErrorID in Error	EID001
	Severity	String	10	Severity level of error	High
	PageURL	String	100	URL of page where the error occurred	/login
	UserID	String	10	Foreign key, references UserID in User	UID001

HelpRequests	HelpRequestID	String	10	Primary key, a unique identifier for each help request	HID001
	UserID	String	10	Foreign key, references UserID in User	UID001
	AdminID	String	10	Foreign key, references AdminID in Admin	A001
	Subject	String	50	Topic of issue encountered	Trouble Logging into Account
	Description	String	800	Specific description of help required	I had forgotten my account password
	Timestamp	Timestamp	N/A	Timestamp of help request sent	2025-1-9 08:30:12
	Status	String	50	Status of request processing	Waiting for help

## 5.0 Wireframe

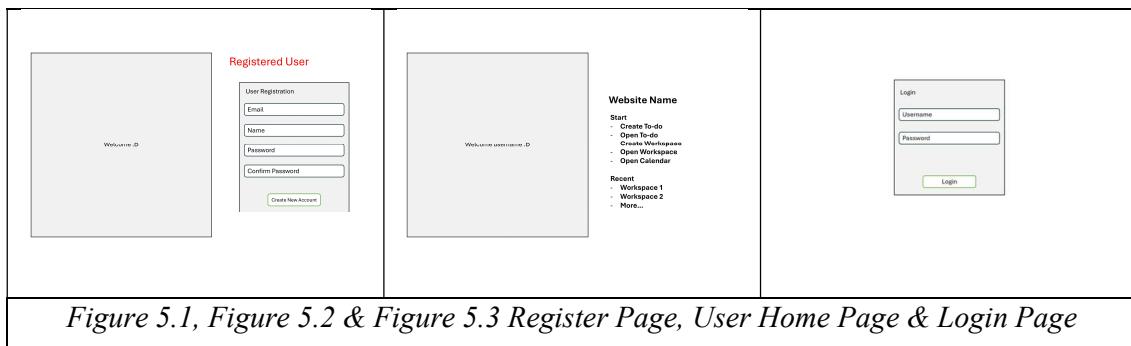


Figure 5.1, Figure 5.2 & Figure 5.3 Register Page, User Home Page & Login Page

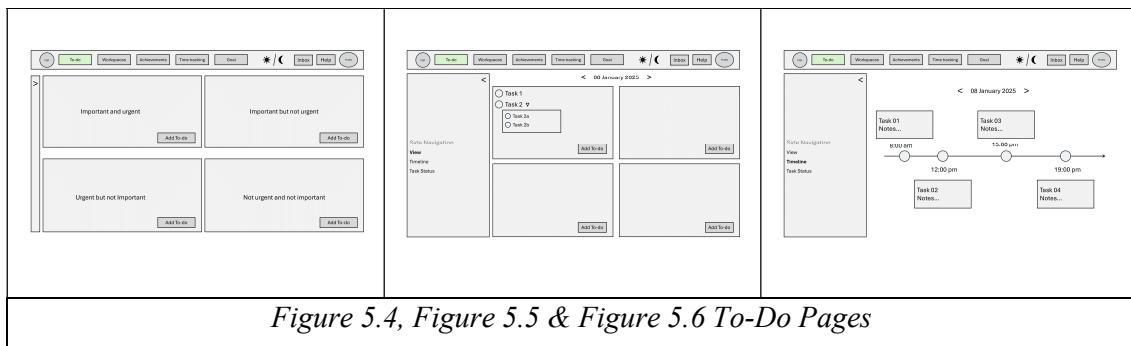


Figure 5.4, Figure 5.5 & Figure 5.6 To-Do Pages

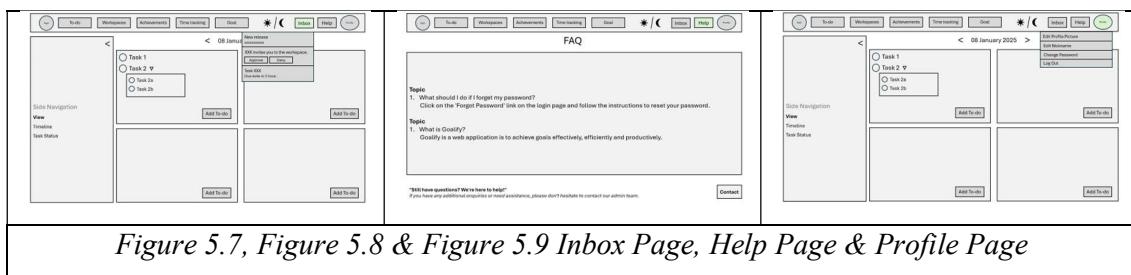


Figure 5.7, Figure 5.8 & Figure 5.9 Inbox Page, Help Page & Profile Page

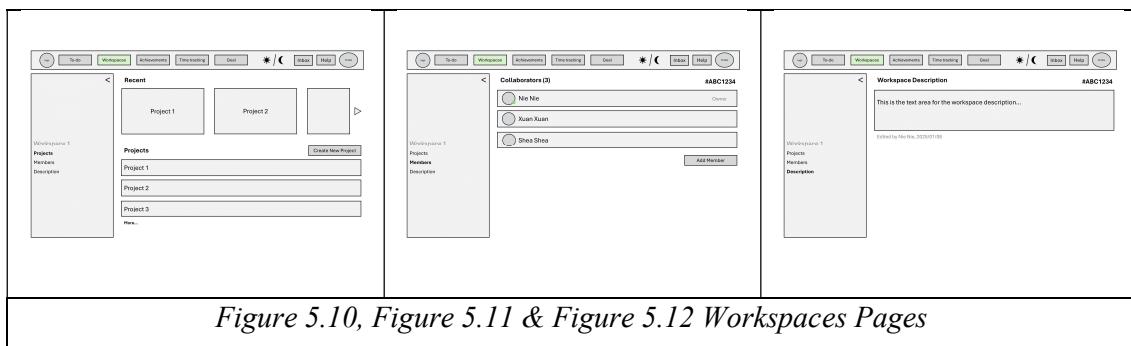
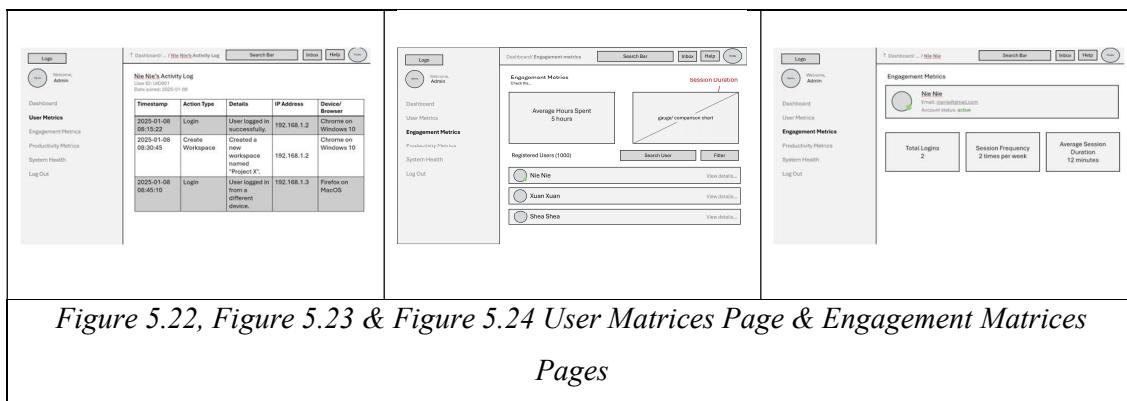
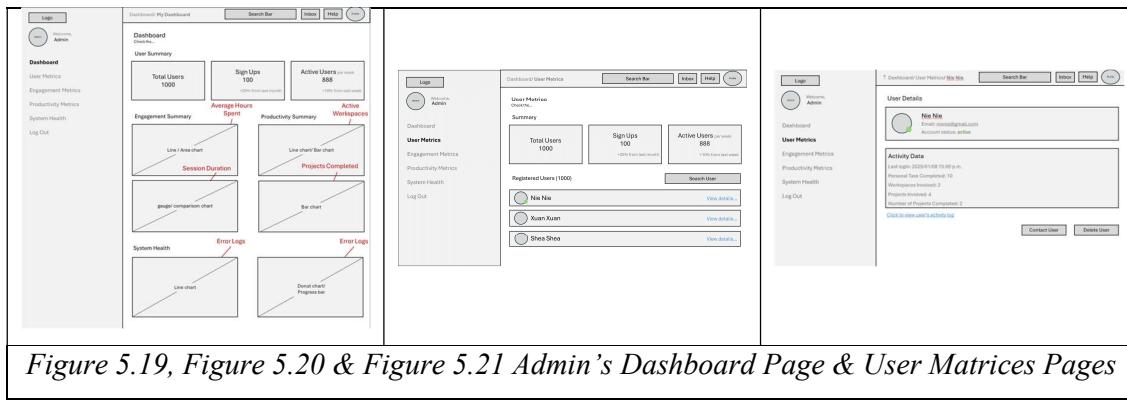
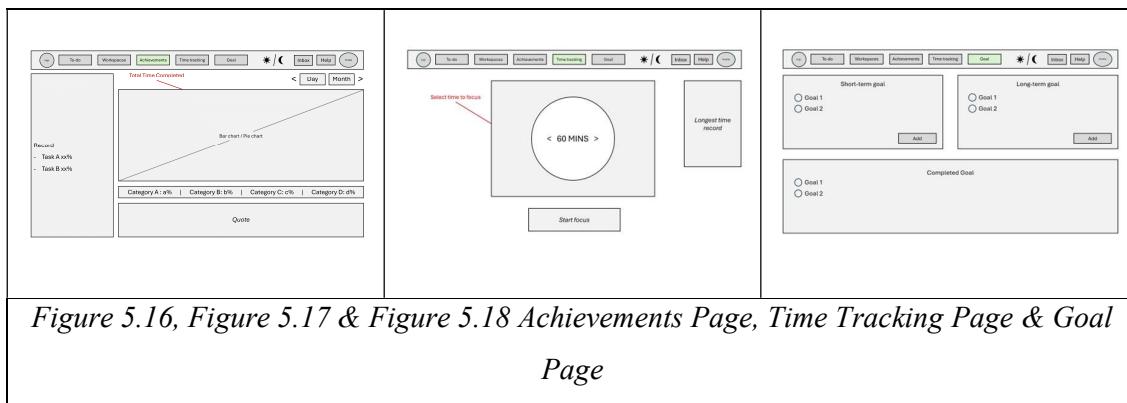
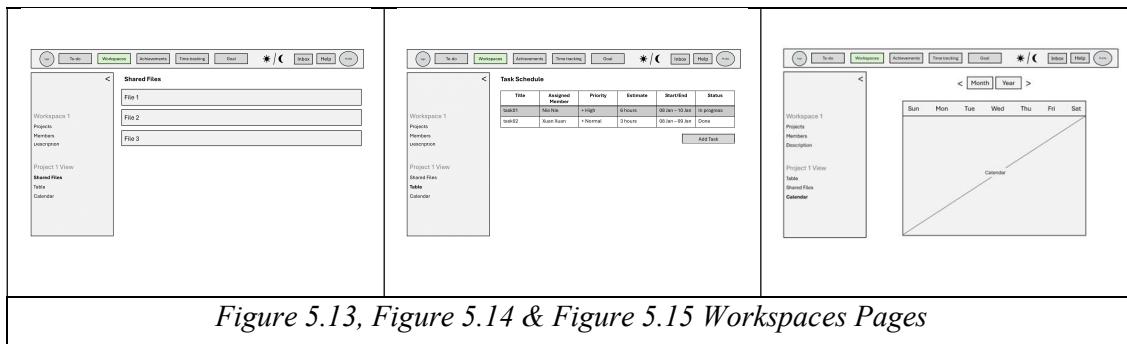


Figure 5.10, Figure 5.11 & Figure 5.12 Workspaces Pages



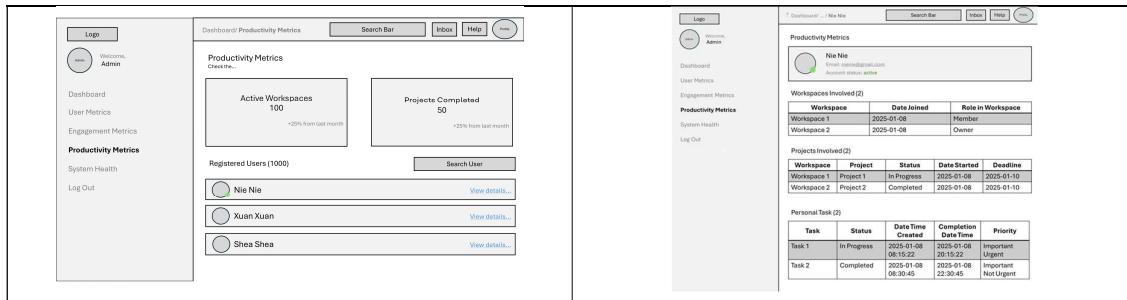


Figure 5.25 &amp; Figure 5.26 Productivity Matrices Pages

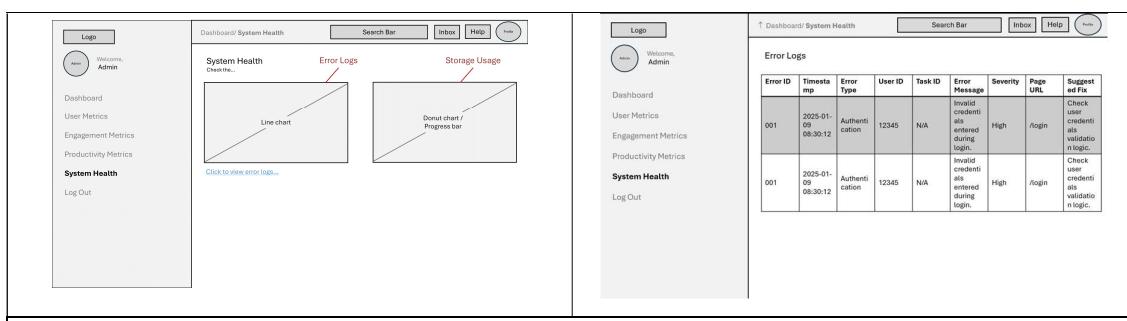


Figure 5.27 &amp; Figure 5.28 System Health Pages

## 6.0 Navigational Structure

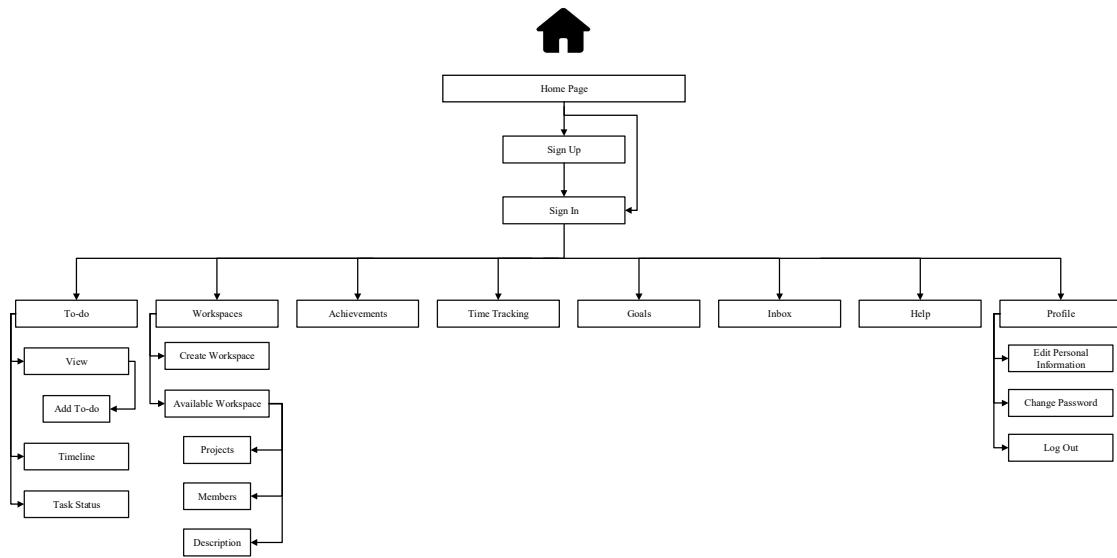


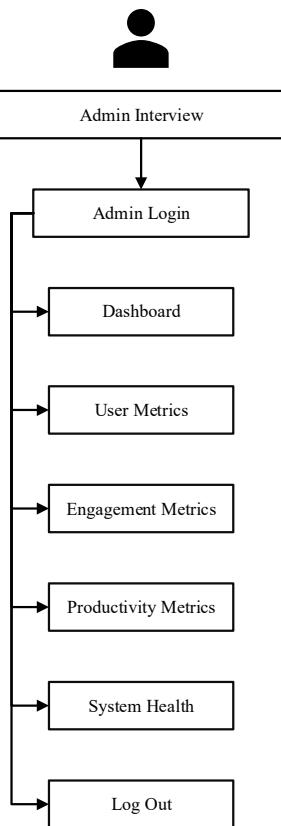
Figure 6.1 User's Navigational Structure

First, the website consists of **user authentication**, allowing users to either sign in to their existing account or sign up for a new account. After users successfully log into their account, they can access the website.

The proposed website consists of some features. A **to-do feature** is included, allowing users to view or add tasks to their to-do list, view task timeline and task status. A **workspace feature** within the website, where users can create workspace for collaboration with team members. They can also view the details of available workspaces, including projects, members and description.

Other than that, **achievements** allow users to track their achievements after they completed their task within a specified time range. Additionally, a **time tracking feature** enables users to track their time when they are focusing on a task. Users can also set their goals in the **goal feature**.

**An inbox** is included for notifications such as updates, new releases, and other important messages. Furthermore, **a help section** is available for users to get assistance to solve any problems they faced on the website. Lastly, they can **click on their profile** to edit personal information, change their account password and log out.



*Figure 6.2 Admin's Navigational Structure*

An **admin login** is included, allowing an admin to log in to the system to manage website operations including dashboard, user metrics, engagement metrics, productivity metrics, and system health and log out from the system.

## **7.0 References**

Howarth, J. (2024). 51 Employee productivity & engagement stats (2024). *Exploding Topics*.

<https://explodingtopics.com/blog/employee-productivity-stats>

Jude. (n.d.). 20+ Student productivity statistics and trends in 2024. *NotionYou*.

<https://www.judkin.com/blog/student-productivity-statistics-and-trends?srsltid=AfmBOor-bTt381Qh4qHf3tOMLWJRTd-zpyHbIYaOo6iUK00Jif46VGxV>

## 8.0 Workload Matrix

Work Breakdown	Lim Chee Xuan	Lum Han Xun	Ng Yvonne	Paureen Tan Nie Nie	Phang Shea Wen	Total
<b>Introduction</b>						
• Title and Target Users of the Web Application	20 %	20 %	20 %	20 %	20 %	100 %
• Objectives of the Project	20 %	20 %	20 %	20 %	20 %	100 %
<b>Background Analysis and Requirement Gathering</b>						
• Web Application Context	20 %	20 %	20 %	20 %	20 %	100 %
• End-user	20 %	20 %	20 %	20 %	20 %	100 %
• End-user Functional Requirements	20 %	20 %	20 %	20 %	20 %	100 %
• Non-functional Requirements	20 %	20 %	20 %	20 %	20 %	100 %
<b>Flowchart</b>						
• User	20 %	20 %	20 %	20 %	20 %	100 %
• Admin	20 %	20 %	20 %	20 %	20 %	100 %
<b>ERD Diagrams</b>	20 %	20 %	20 %	20 %	20 %	100 %
• Data Dictionary	20 %	20 %	20 %	20 %	20 %	100 %
<b>Wireframe</b>	20 %	20 %	20 %	20 %	20 %	100 %
<b>Navigational Structure</b>	20 %	20 %	20 %	20 %	20 %	100 %
<b>Signature</b>						