



Project Phase 3

SECD2613 System Analysis and Design

Semester 2, 2023/2024

Section 01

Group: Analytix
“ScholarSync”

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Figma Link:

<https://www.figma.com/design/NltrFhLqJx7wiWpjG3iar/SAD?m=auto&t=Tf0Itca6GfzhgVHI-1>

GitHub Link: https://github.com/nguyuling/Analytix_Project1_SAD_20232024

Lecturer: **DR. AHMAD NAJMI BIN AMERHAIDER NUAR**

Date: 21st June 2024

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1.0 OVERVIEW OF THE PROJECT

In doing academic research and writing papers, graduate students and lecturers alike require immense efforts in managing and organising their tasks and making sure they are on track. Currently, the task management system employed by those involved in paper writing is the usage of spreadsheets such as Google Sheets or Excel.

Successful management and organisation of tasks enhance productivity of researchers, and ensure that tasks are completed before their deadlines. Moreover, the publishing quality would increase with proper management and organisation of tasks. Quality publications, in turn, increase the reputation of researchers and their standing in the academic world.

Seeing as research and writing is such an integral part of a researcher's life, it is obvious to fill the gap that is created in their current system by creating a digital task management system that is uniquely tailored to the demands of academic research and writing.

2.0 PROBLEM STATEMENT

1. Inappropriate platform for academic

Most project discussions among postgraduate students and announcements by academic staff are primarily conducted on social media platforms, which were not initially designed or intended to serve as virtual workspaces. This practice leads to challenges such as buried documents amidst numerous messages, causing inconvenience when accessing essential files and media. Additionally, the lack of notifications for document updates or edits hampers efficient collaboration among group members and lecturers involved in the same project.

2. Social media distractions and disorganisation

In academic settings, social media platforms are often utilised for group discussions and announcements, alongside personal or non-academic conversations. This overlapping usage leads to unorganised chats, difficulty in categorising information, and inefficient teaching and learning processes. The tendency for social media to be distracting further undermines focus and productivity during academic tasks.

3. Unorganised task management

Students struggle to balance academic and co-curricular commitments due to difficulties in organising their schedules and meeting deadlines. The absence of a clear visualisation of tasks and learning plans exacerbates this challenge. Similarly, academic staff face challenges in scheduling quizzes and tests across different sections, leading to potential overlaps in dates and locations. A solution lies in adopting weekly or monthly calendars, essential tools for enhancing productivity and tracking progress effectively.

3.0 PROPOSED SOLUTIONS

ScholarSync is a new system solution that aims to enhance the existing system's workflow and functionality. Therefore, this new system will have all the functionalities of the current task management system, such as adding tasks, scheduling deadlines and planning meetings with some new features in place.

1. Centralising paper writing and publication

One of the main improvements of this proposed system is that it centralizes every aspect of paper writing and publication for postgraduate students, so that users may accomplish everything within one app and not have to switch between apps. Initially, the manual process has been described as inefficient and time consuming, as manually updating each task and fixing deadlines in different applications required switching between multiple apps.

2. Allowing real-time collaboration

Another improvement that this proposed system offers is real-time collaboration. In the manual process, collaboration was difficult as the progress of a students' work is not available to another student or advisor in real time, which may cause delays and in worse cases, two people working on the same task simultaneously, wasting time and resources. The new system aims to improve this by allowing real-time collaboration among members of the same project.

3. Reminder

Moreover, the manual process is also prone to error during the management of tasks. Users of the manual process may forget deadlines and overlook updates to a task or project. The new system aims to prevent this by **setting up alerts and reminders for tasks and projects**. Each new update to a task, a change in priority or collaborator and deadline will be notified to the user, so that they will not miss anything important.

4. Increasing accessibility

In the manual process, accessibility to some files and information may be guarded when a person stores them in their local machine or relay information

through personal messaging only. In the new system, we avoid this problem by allowing everyone in a project to view files related to the project as long as they are collaborators. In-app collaboration tools such as commenting and messaging also aim to improve accessibility between project members to information. Overall, accessibility to information and files will be improved through this system.

5. **Enhancing scalability**

Finally, the proposed solution aims to enhance scalability for all types of end users, be it advisors or students. A scalable system would still be easy to manage and maintain even when it grows. The proposed system is scalable for advisors because each project that they are overseeing would be neatly tucked away into separate dropdowns in a menu, and can be sorted with tags. For students, it is scalable when we adopt a nested page format, in which projects can be stored within folders of folders. Finally, with the use of servers on the cloud to host the system, it can be scaled up or down according to the size of the operation.

4.0 CURRENT BUSINESS PROCESS / WORKFLOW

1. Research Task Management:

- *Scenario:* A postgraduate student or lecturer currently manages their research tasks using a combination of spreadsheets, emails, and physical notes.
- *Workflow:* They create task lists manually, update them as progress is made, and communicate with collaborators through email or other messaging platforms.

2. Document Sharing and Collaboration:

- *Scenario:* Collaborators exchange research papers and drafts via email attachments or shared cloud storage, leading to version control issues and confusion.
- *Workflow:* Documents are shared individually, comments are made via email or separate documents, and tracking changes becomes cumbersome.

3. Progress Tracking and Reminder System:

- Scenario: Keeping track of project deadlines and progress relies on manual reminders and periodic check-ins.
- Workflow: Users set reminders on their personal devices or use calendar applications to manage deadlines. However, there's no centralized system for tracking progress across multiple projects.

4. Peer Review Process:

- Scenario: Peer review feedback is currently exchanged through email or face-to-face meetings, making it difficult to organize and track.
- Workflow: Researchers send drafts to peers via email or share them in person, then compile feedback manually. This process lacks version control and can be time-consuming.

5. Security and Privacy Concerns:

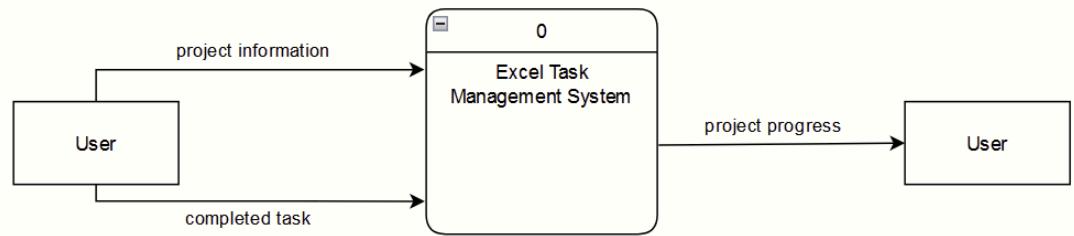
- Scenario: Users are concerned about the security of their research data and documents when using online platforms.
- Workflow: Users may hesitate to share sensitive information online due to fears of data breaches or unauthorized access, impacting collaboration and information sharing.

6. User Registration and Authentication:

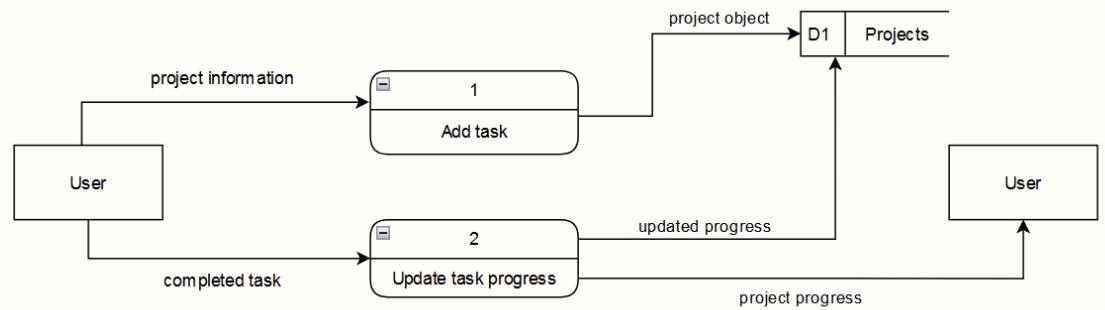
- Scenario: User registration and authentication processes may lack two-factor authentication (2FA), leaving accounts vulnerable to unauthorized access.
- Workflow: Users register using basic email addresses and passwords without additional security measures, potentially risking data breaches or account hijacking.

5.0 LOGICAL DFD (AS-IS)

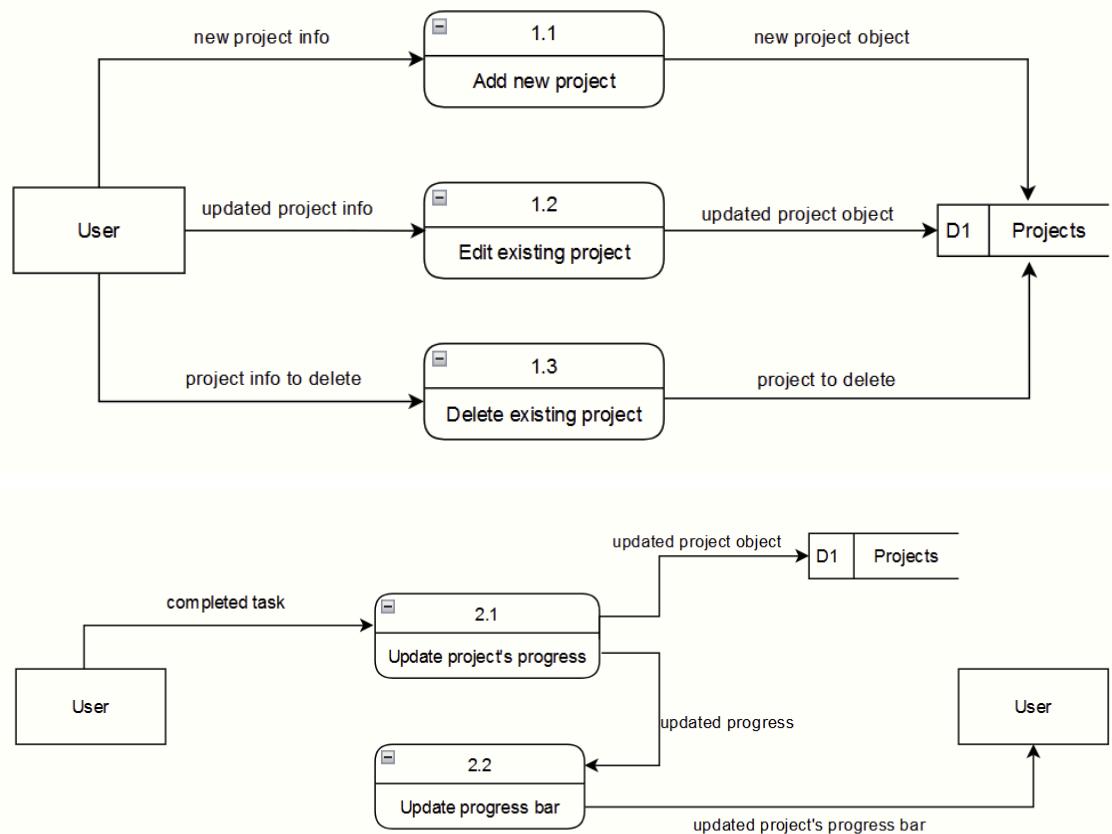
1. Context diagram



2. Level 0 diagram



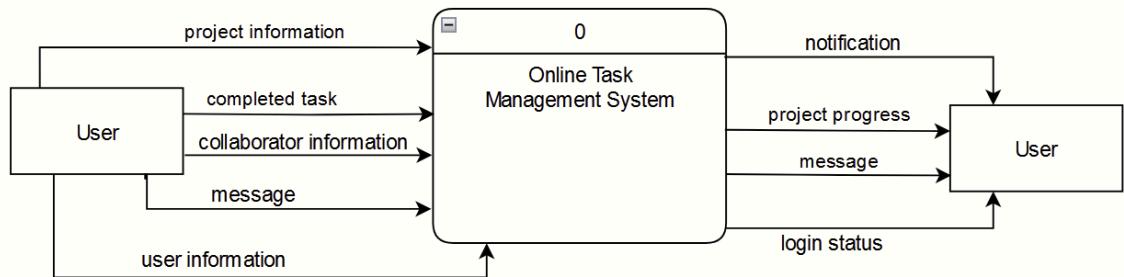
3. Child diagram



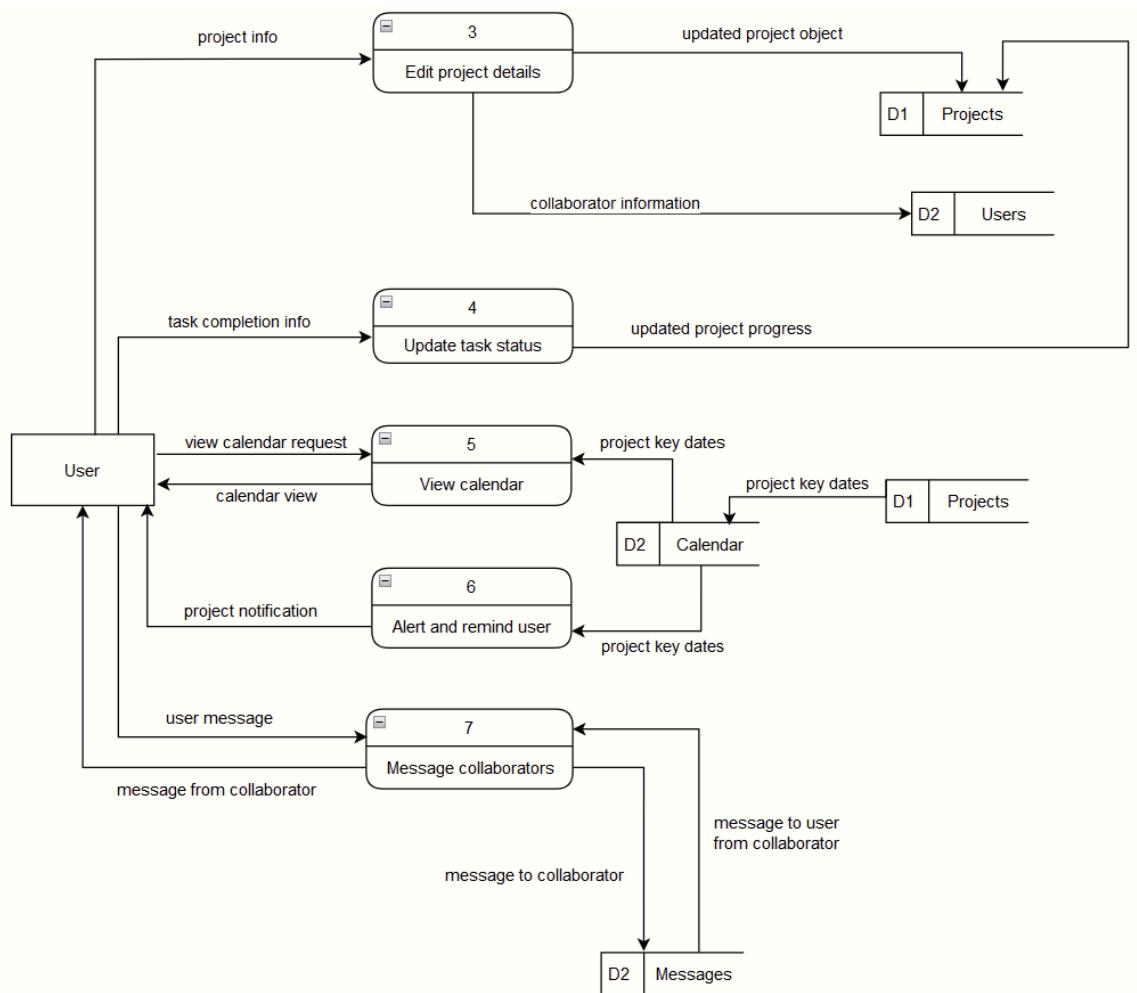
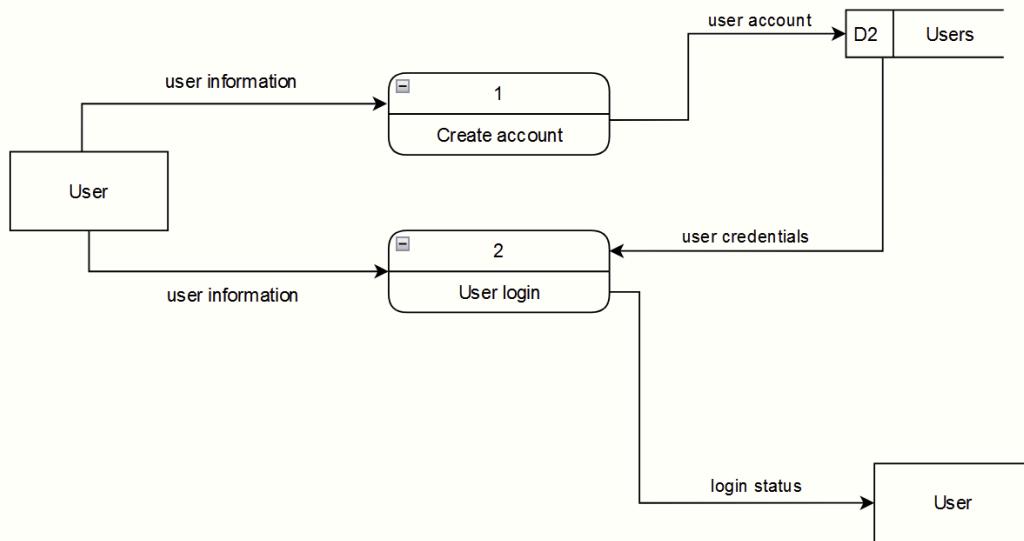
6.0 SYSTEM ANALYSIS AND SPECIFICATION

6.1 Logical DFD TO-BE system

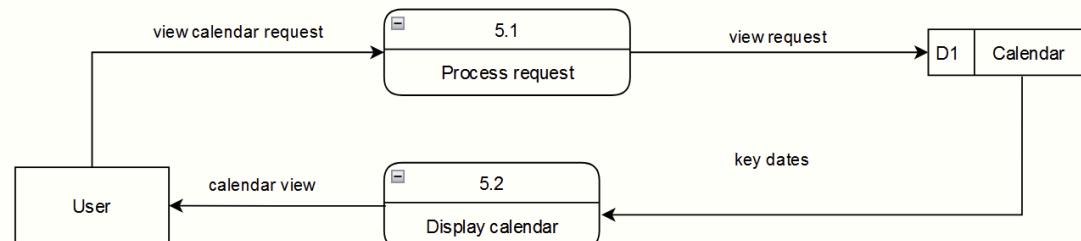
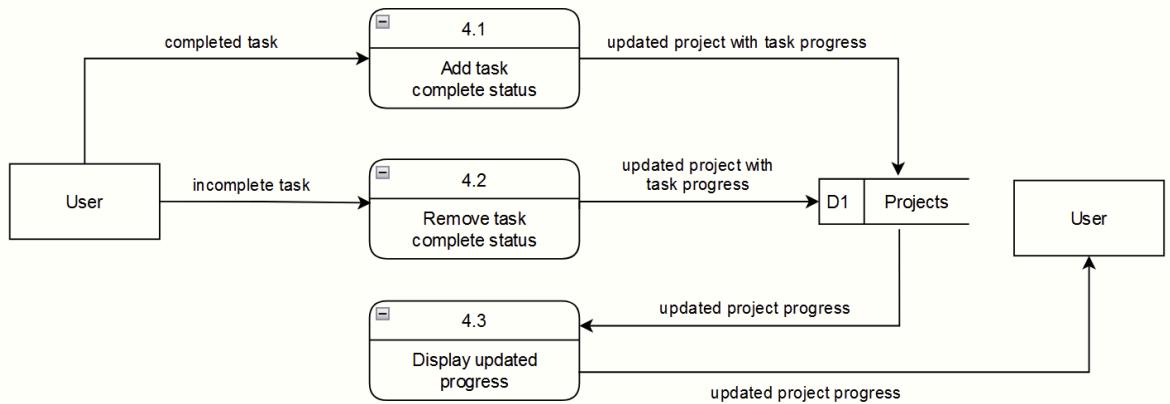
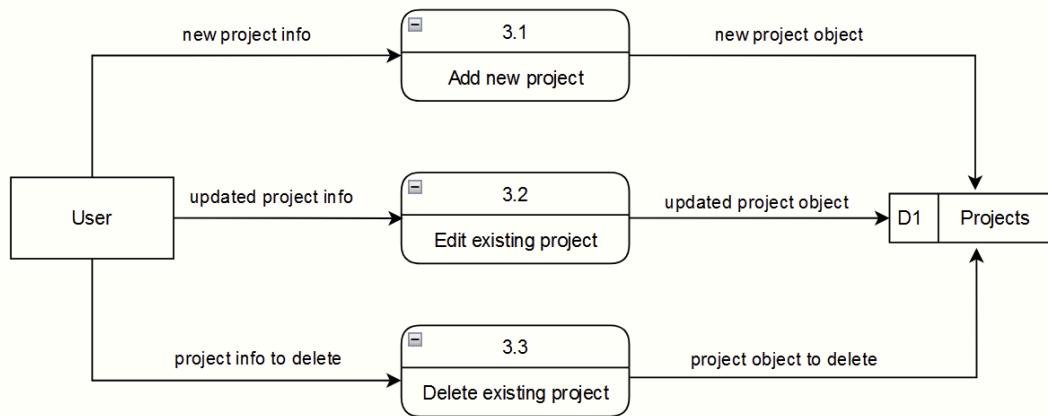
1. Context diagram



2. Level 0 diagram



3. Child diagram



6.2 Process Specification

Number: 1
Name: Create Account
Description: This process allows first-time users to create an account that will be stored in the “Users” data store.
Input data flow: User information
Output data flow: User account
Type of process: <input checked="" type="checkbox"/> Online <input type="checkbox"/> Batch <input type="checkbox"/> Manual
Process logic: GET user information from user. CREATE a user account.
Refer to: Name: <input checked="" type="checkbox"/> Structured English <input type="checkbox"/> Decision Table <input type="checkbox"/> Decision Tree
Unresolved Issues:

<p>Number: 2</p> <p>Name: User Login</p> <p>Description: This process allows users to log into the system by entering their username and password.</p>
<p>Input data flow:</p> <p>User information from user</p> <p>User credentials from “User” data store</p>
<p>Output data flow:</p> <p>Login status</p>
<p>Type of process:</p> <p><input checked="" type="checkbox"/> Online <input type="checkbox"/> Batch <input type="checkbox"/> Manual</p>
<p>Process logic:</p> <p>START process “User Login”</p> <p>GET user information.</p> <p>GET user information from “Users” data store.</p> <p>MATCH user information against credentials from “Users” data store.</p> <p>IF credentials match, User login status “success” sent to the user.</p> <p>ELSE User login status “failure” sent to the user.</p>
<p>Refer to: Name:</p> <p><input checked="" type="checkbox"/> Structured English <input type="checkbox"/> Decision Table <input type="checkbox"/> Decision Tree</p>
<p>Unresolved Issues:</p>

Number: 3 Name: Manage Project Description: Allows users to add, edit, delete and sort the project.	
Input data flow: User request	
Output data flow: Project updates	
Type of Process: <input checked="" type="checkbox"/> Online <input type="checkbox"/> Batch <input type="checkbox"/> Manual	Subprogram: Add Project, Edit Project, Delete Project, Sort Project
Process Logic: Subprogram: Add project DO ADD project title ADD start date ADD end date DO WHILE end date earlier than start date ADD end date ADD first author's name DO WHILE ADD other author ADD other author's name SELECT co-author among the author(s) added DO WHILE add subtask ADD sub-task title DO WHILE add tag ADD area of study ADD paper type ADD priority ADD databases and metrics tools	
Subprogram: Edit project IF EDIT project title UPDATE project title IF EDIT start date UPDATE start date IF EDIT end date UPDATE end date DO WHILE end date earlier than start date UPDATE end date IF EDIT first author's name UPDATE first author's name IF EDIT other author's name UPDATE other author's name DO WHILE ADD other author ADD other author's name DO WHILE DELETE other author DELETE other author's name	

```
IF EDIT co-author
    UPDATE co-author
BEGIN IF
IF EDIT subtask
    UPDATE subtask title
ELSE IF ADD subtask
    ADD subtask title
ELSE IF DELETE subtask
    DELETE subtask
END IF
DO WHILE EDIT tag
    UPDATE area of study
    UPDATE paper type
    UPDATE priority
    UPDATE databases and metrics tools
```

Subprogram: Delete project
IF DELETE project
 REQUEST confirmation
 IF CONFIRM deletion
 DELETE all project information

Subprogram: Sort project
START IF
IF sort by table
 DISPLAY project in table
ELSE IF sort by kanban
 DISPLAY project in kanban
ELSE IF sort by list
 DISPLAY project in list
ELSE IF sort by timeline
 DISPLAY project in timeline
END IF

Refer To: Name:

Structured Decision Table Decision Tree
English

Unresolved Issues: None.

<p>Number: 4</p> <p>Name: Manage Progress</p> <p>Description: Updates the status of tasks within a project based on project completeness status provided by users.</p>
Input Data Flow: Task completeness status
Output Data Flow: Update status, Reminder based on project end date
<p>Type of Process:</p> <p><input type="checkbox"/> Online <input type="checkbox"/> Batch <input checked="" type="checkbox"/> Manual</p>
<p>Process Logic:</p> <p>DO WHILE project is not completed</p> <p> EDIT completeness status</p> <p>START IF</p> <p> IF completeness status equals</p> <p> IF one week until end date</p> <p> SEND reminder</p> <p> ELSE IF 3 days until end date</p> <p> SEND alert</p> <p>END IF</p>
<p>Refer To: Name:</p> <p><input checked="" type="checkbox"/> Structured English <input type="checkbox"/> Decision Table <input type="checkbox"/> Decision Tree</p>
<p>Unresolved Issues: Project is still not completed or project status is not updated even after the project end date.</p>

<p>Number: 5</p> <p>Name: View Calendar</p> <p>Description: This process allows users to view the calendar with project key dates.</p>
Input data flow: View calendar request.
Output data flow: Calendar view.
<p>Type of process:</p> <p><input checked="" type="checkbox"/> Online <input type="checkbox"/> Batch <input type="checkbox"/> Manual</p>
<p>DO</p> <p>DISPLAY calendar view option to the user</p> <p>IF user selects "View Calendar" option</p> <p> THEN</p> <p> FETCH project key dates from Projects data store</p> <p> FETCH existing calendar data from Calendar data store</p> <p> DISPLAY calendar with project key dates</p> <p> IF user clicks on a date or drags to select multiple dates</p> <p> THEN</p> <p> ALLOW user to type deadlines or key events on the selected date(s)</p> <p> ENDIF</p> <p> IF user confirms changes</p> <p> THEN</p> <p> UPDATE Calendar data store with new deadlines or key events</p> <p> REFRESH calendar view to display updated information</p> <p> ENDIF</p> <p> ENDIF</p> <p> UNTIL user finishes viewing calendar</p> <p> THEN</p> <p> END process "View Calendar"</p>
<p>Refer to: Name:</p> <p><input checked="" type="checkbox"/> Structured English <input type="checkbox"/> Decision Table <input type="checkbox"/> Decision Tree</p>
Unresolved Issues:

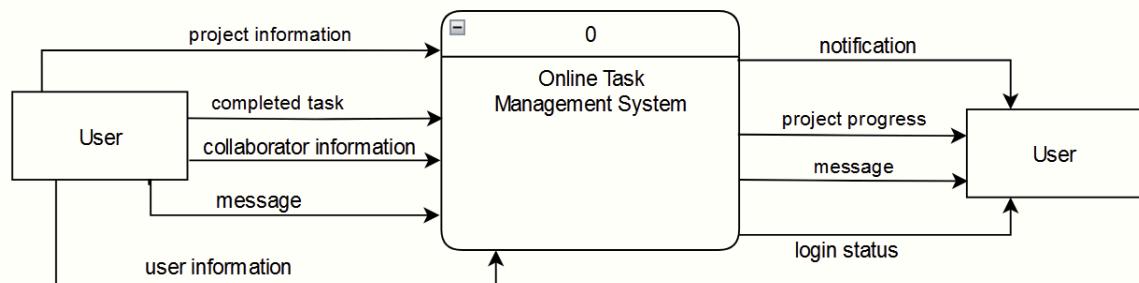
<p>Number: 6</p> <p>Name: Alert and Remind Users</p> <p>Description: This process sends alerts and reminders to users about key dates and project notifications</p>
Input data flow: Project notification.
Output data flow: Project key dates.
<p>Type of process:</p> <p><input checked="" type="checkbox"/> Online <input type="checkbox"/> Batch <input type="checkbox"/> Manual</p>
<p>Process logic:</p> <p>DO</p> <p> READ project notification</p> <p> FETCH project key dates FROM Calendar (D2)</p> <p> FOR each key date IN project key dates</p> <p> BEGIN IF</p> <p> IF current date is within alert period of key date</p> <p> GENERATE alert for the user with details of key date</p> <p> END IF</p> <p> END IF</p> <p> NEXT key date</p> <p> FOR each generated alert</p> <p> SEND alert to the user</p> <p> NEXT alert</p> <p> UNTIL all key dates are processed</p> <p> THEN</p> <p> END Process</p>
<p>Refer to: Name:</p> <p><input checked="" type="checkbox"/> Structured English <input type="checkbox"/> Decision Table <input type="checkbox"/> Decision Tree</p>
Unresolved Issues: None

<p>Number: 7</p> <p>Name: Communicate with Collaborators</p> <p>Description: This process allows users to send messages to collaborators and receive messages from collaborators.</p>
<p>Input data flow: User message, message from collaborator.</p>
<p>Output data flow: Message to collaborator, message to user from collaborator.</p>
<p>Type of process:</p> <p><input checked="" type="checkbox"/> Online <input type="checkbox"/> Batch <input type="checkbox"/> Manual</p>
<p>Process logic:</p> <p>START</p> <p>DO</p> <p> RECEIVE user message</p> <p> STORE user message in D2: Messages</p> <p> RETRIEVE message from D2: Messages</p> <p> DELIVER message to intended collaborator(s)</p> <p> NOTIFY collaborator(s) of new message</p> <p> DISPLAY message in collaborator's inbox</p> <p>DO WHILE collaborator sends response</p> <p> RECEIVE response message</p> <p> STORE response message in D2: Messages</p> <p> NOTIFY user of new message</p> <p> DISPLAY response message in user's inbox</p> <p>END</p>
<p>Refer to: Name:</p> <p><input checked="" type="checkbox"/> Structured English <input type="checkbox"/> Decision Table <input type="checkbox"/> Decision Tree</p>
<p>Unresolved Issues:</p>

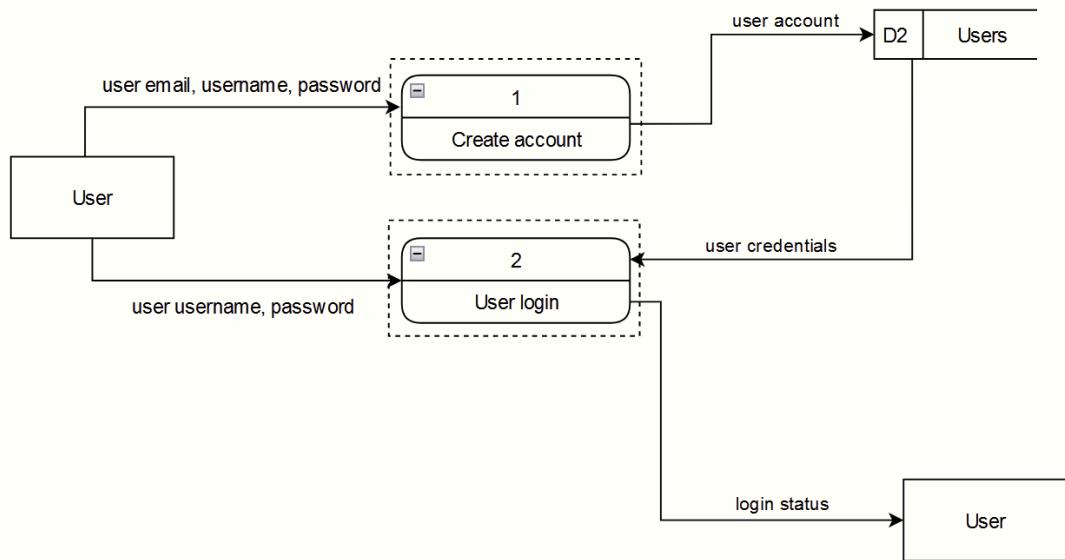
PHYSICAL SYSTEM DESIGN

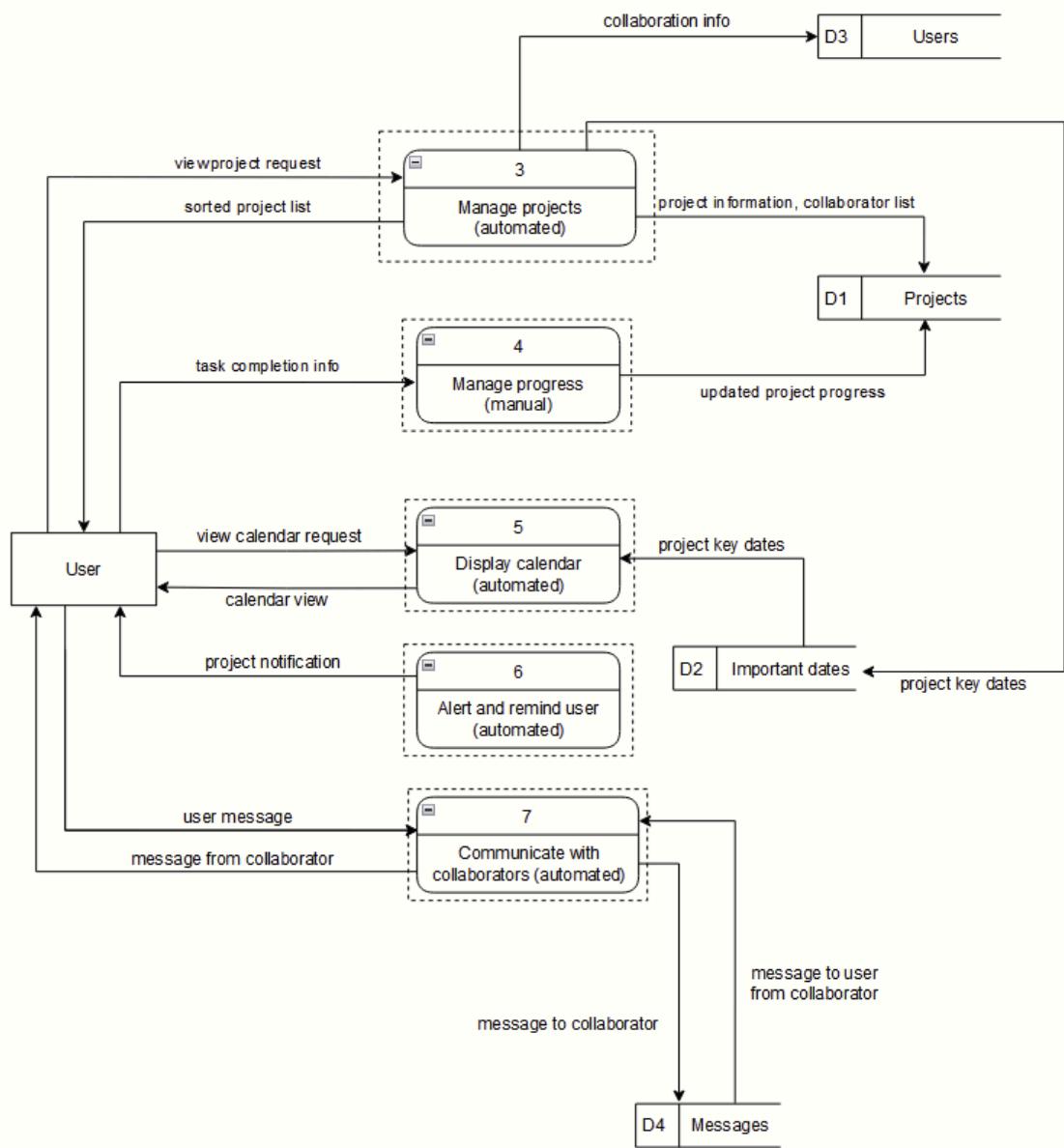
7.1 Physical DFD TO-BE system

1. Context diagram

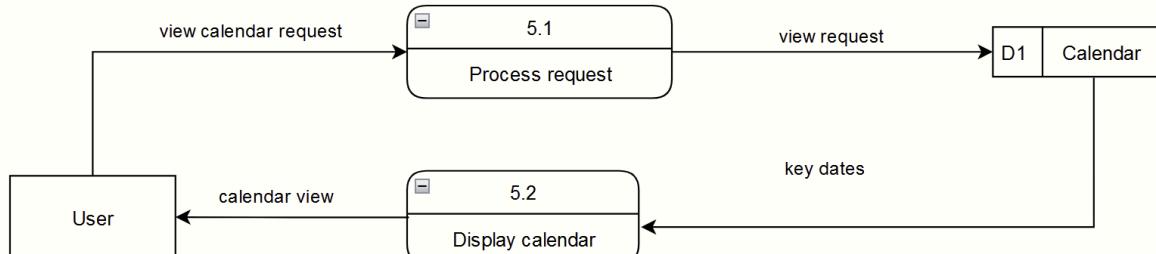
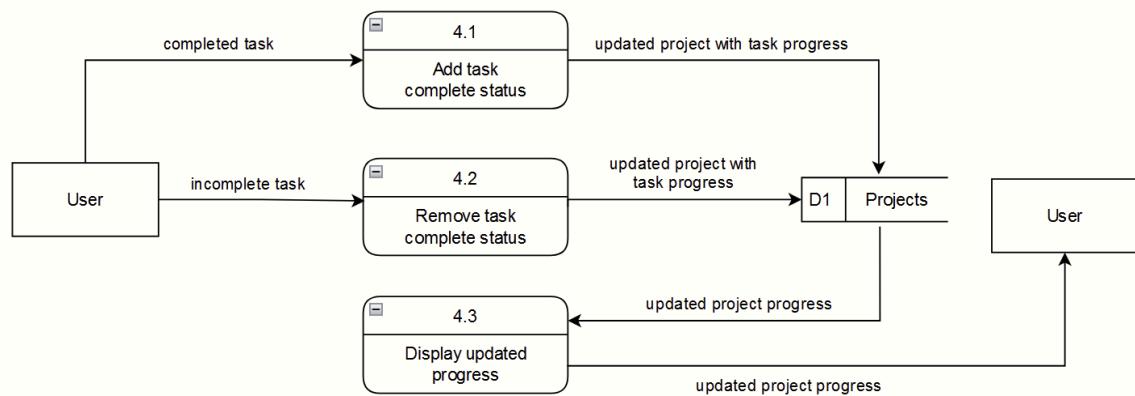
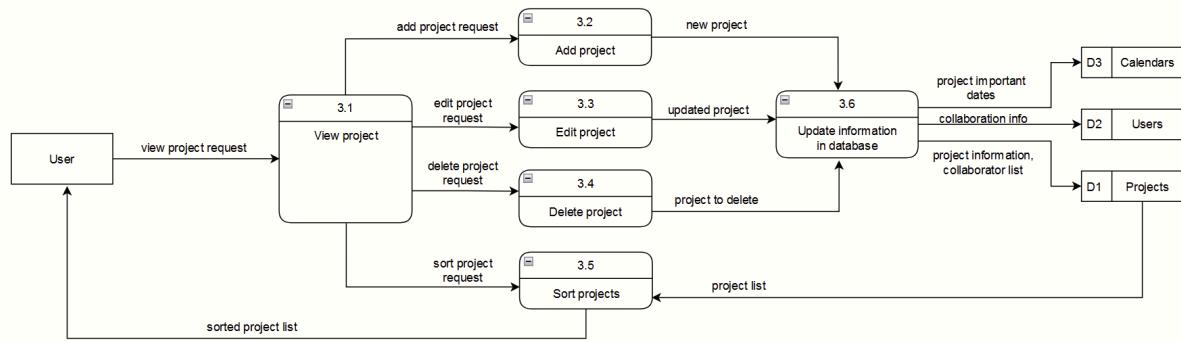


2. Level 0 diagram





3. Child diagram



4. CRUD Matrix

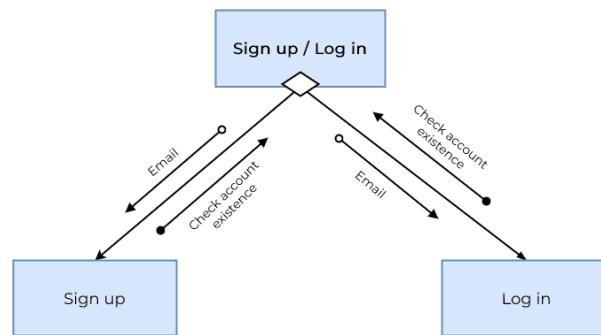
Activity	User	Calendar	Project	Collaborator
User register	C			
User log in	R			
Add users	C			
Edit existing project			RU	
Remove existing project			RD	
Remove existing collaborator				RD
Add new project			C	
Add new collaborators				C
Manage progress			RU	
Edit project details			RU	
Add date to calendar	C			
Edit calendar's date	UR			
Manage project			CRUD	
View project			R	
Alert & reminder	CRUD			
Chat users	CRUD			

5. Event Response Table

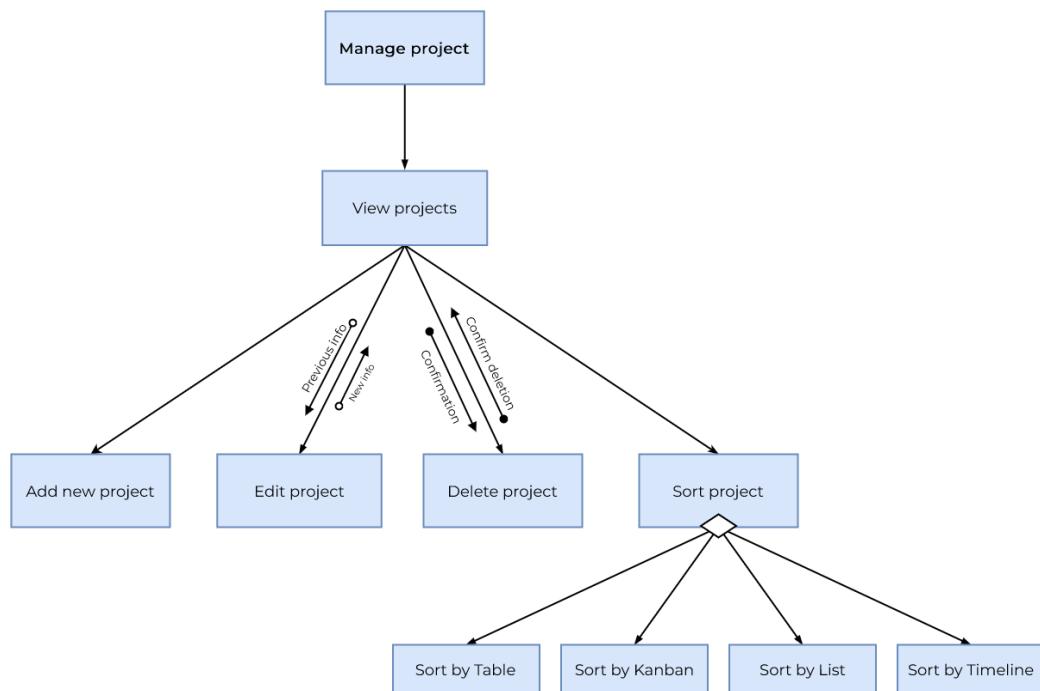
Event	Source	Trigger	Activity	Response	Destination
Create account	User	User email, username, password	Create user account based on information given	User account	Users data
User login	User	User username, password	Authenticate user credentials	Login status	User
Manage projects	User	View project request	Add new project, Edit existing project, Delete existing project, Sort projects	Project information, collaborator list, Project key dates, Collaboration info	Projects data, Important dates data, Users data
Manage progress	User	Task completion info	Add task complete status, Remove task complete status, Display updated progress	Updated project progress	Projects data
Display calendar	Important dates data	View calendar request	Process request, Display calendar	Calendar view	User
Alert and remind user	User	Project key dates	Alert and remind user	Project notification	User
Communicate with collaborators	User	User message	Communicate with collaborators	Message from collaborator	User, Message data

6. Structure Chart

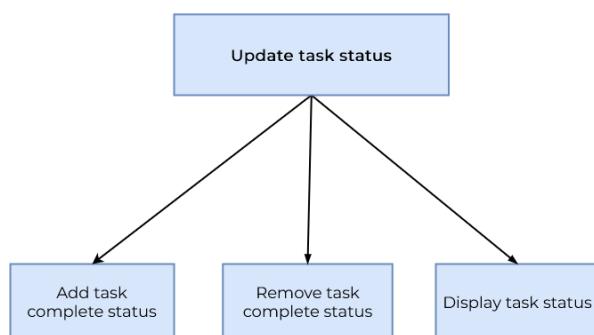
(a) Sign up / log in



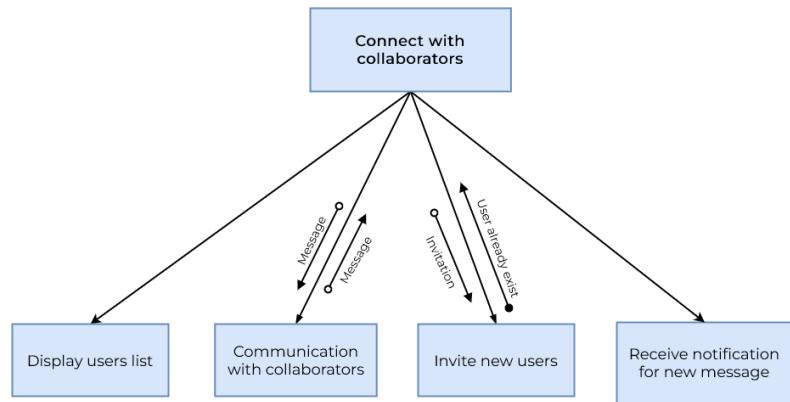
(b) Manage project



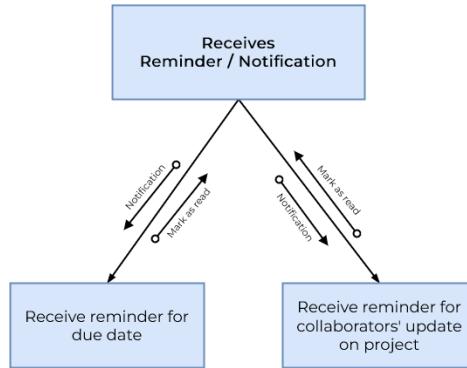
(c) Update task status



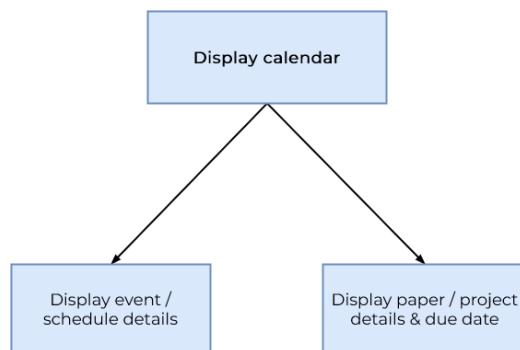
(d) Connect with collaborators



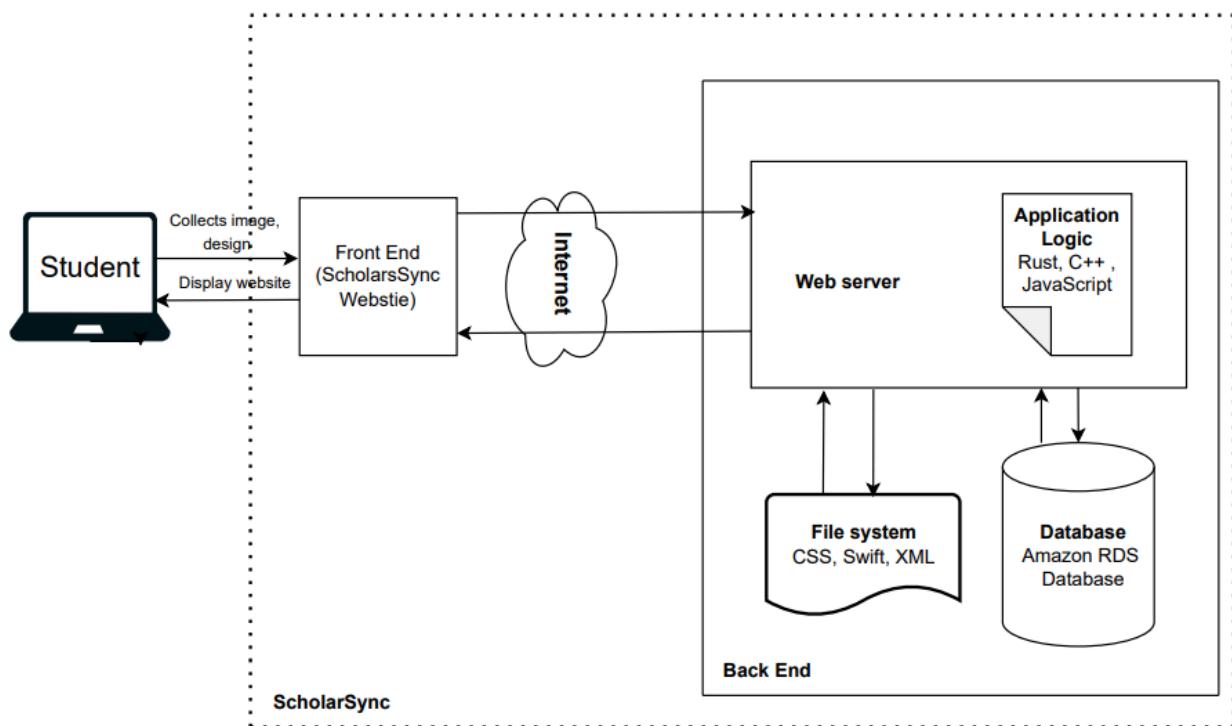
(e) Receives reminder / notification



(f) Display calendar

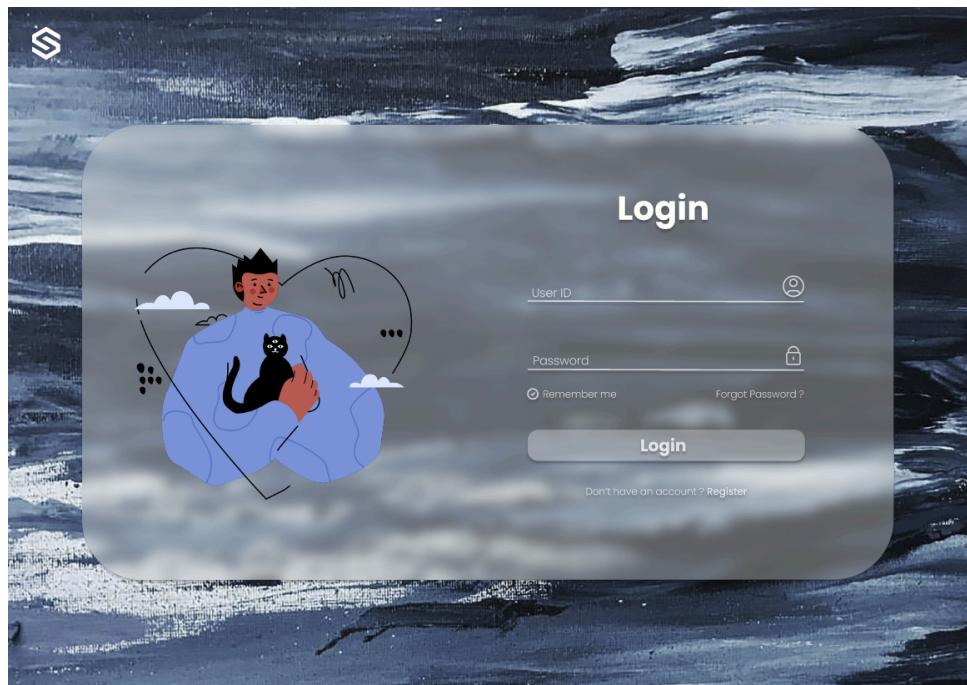


7. System Architecture

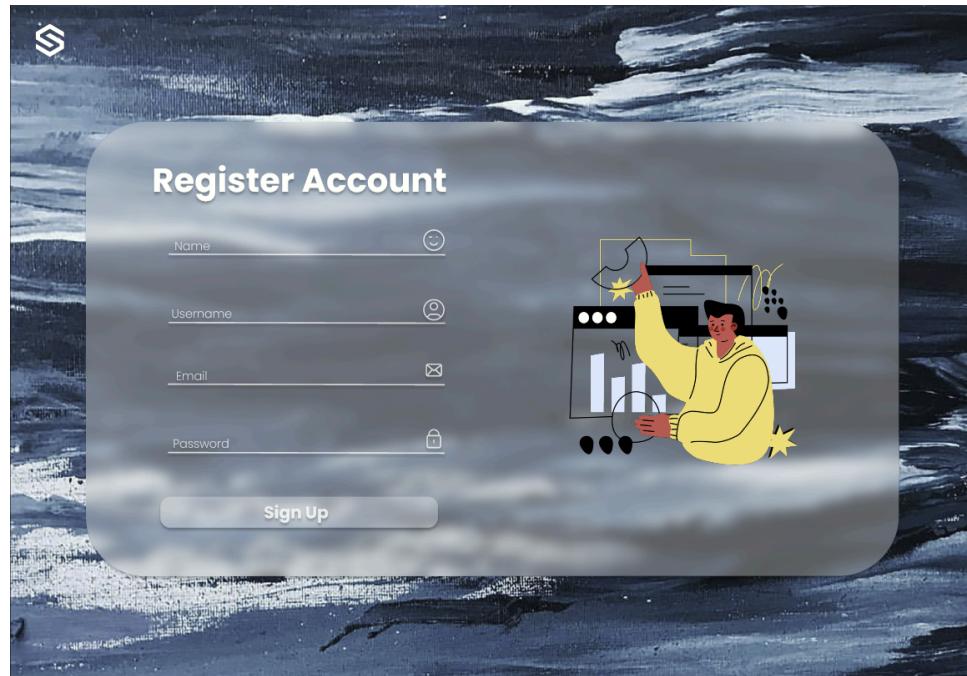


8.0 SYSTEM WIREFRAME

8.1 Login page



8.2 Register account page



8.3 Home page

Home

search your list

Good afternoon, Ali bin Abu

You have 3 projects in your list

November 2022

Su	Mo	Tu	We	Th	Fr	Sa
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

Clear

Statistics on July

Productivity This Month

22% Increase

8 Tasks Completed

1 I should prob... 2 Are shorter titl... 3 Chapter 5 - In...

Productivity Past 6 Months

21% Decrease

24 Tasks Completed

Recent activity

- Wilson leave some comments on SAD 45 mins ago
- Phavanee change project info on SAD 10 hours ago
- Yu Ling change the due date of SAD 2 days ago

Activity This Week

7 Total Task

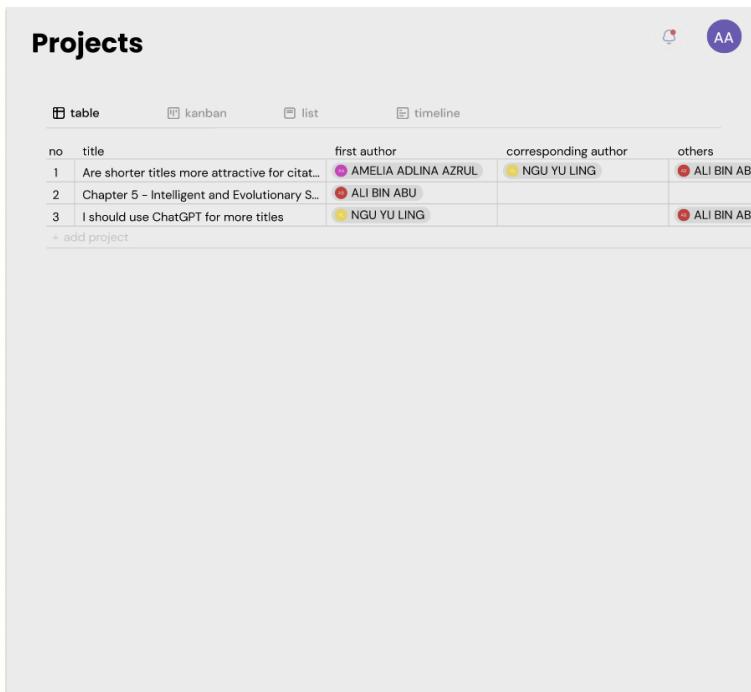
2 In progress

1 Pending

4 Completed

8.4 Projects

8.4.1 Table view



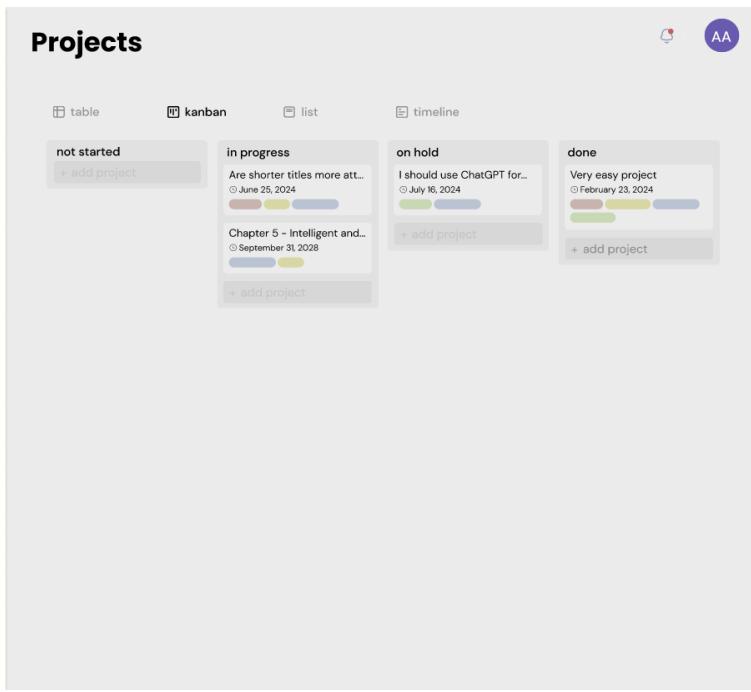
The screenshot shows the ScholarSync project management interface. The top navigation bar includes the ScholarSync logo, a search bar, and a user profile icon. The main title 'Projects' is centered above a table. Below the table are four navigation buttons: 'table' (selected), 'kanban', 'list', and 'timeline'. The table has columns for 'no', 'title', 'first author', 'corresponding author', and 'others'. Three projects are listed:

no	title	first author	corresponding author	others
1	Are shorter titles more attractive for citat...	AMELIA ADLINA AZRUL	NGU YU LING	ALI BIN ABU
2	Chapter 5 - Intelligent and Evolutionary S...	ALI BIN ABU		
3	I should use ChatGPT for more titles	NGU YU LING		ALI BIN ABU

Below the table is a button for '+ add project'. On the left side, there is a sidebar with the following navigation links:

- Home
- All projects (selected)
- Calendar
- User
- Chat

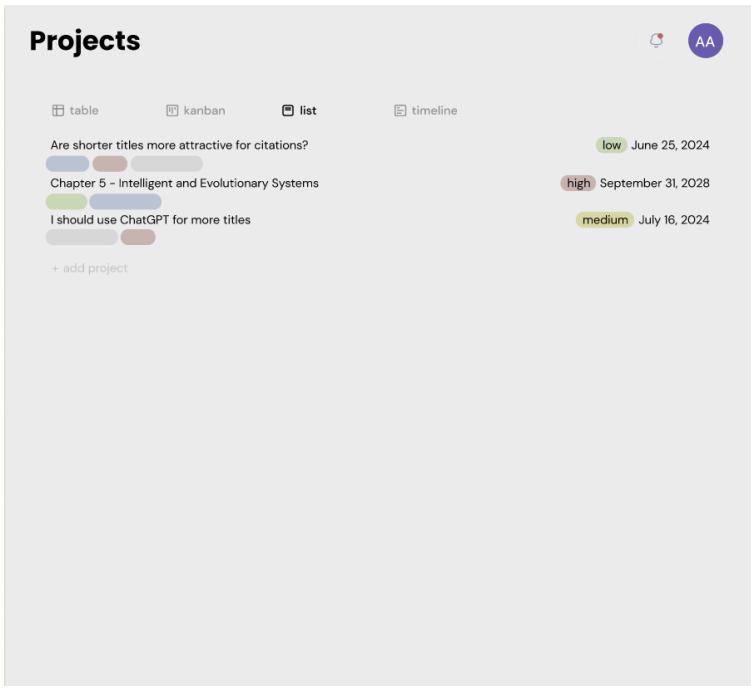
8.4.2 Kanban view



The screenshot shows the Kanban view of the ScholarSync application. The interface includes a sidebar with navigation links: Home, All projects (selected), Calendar, User, and Message. The main area is titled 'Projects' and features four columns: 'not started', 'in progress', 'on hold', and 'done'. Each column contains a list of projects with their titles, due dates, and progress bars. For example, the 'in progress' column has a project titled 'Are shorter titles more attractive for citations?' due on June 25, 2024, with a low priority. The 'done' column has a project titled 'Very easy project' due on February 23, 2024, with a medium priority.

Column	Project Title	Due Date	Priority
not started	Chapter 5 – Intelligent and Evolutionary Systems	September 31, 2028	high
in progress	Are shorter titles more attractive for citations?	June 25, 2024	low
on hold	I should use ChatGPT for...	July 16, 2024	medium
done	Very easy project	February 23, 2024	medium

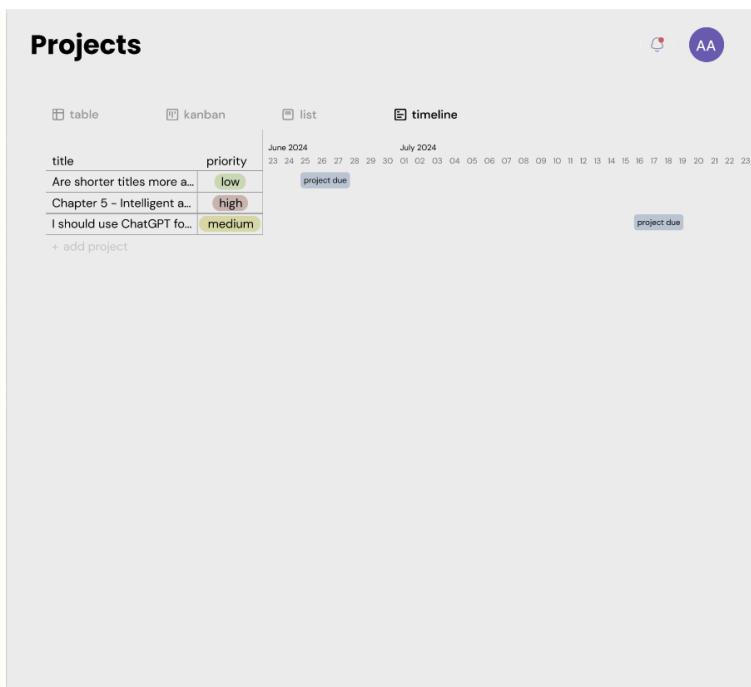
8.4.3 List view



The screenshot shows the List view of the ScholarSync application, displaying the same projects as the Kanban view. The interface is identical to the Kanban view, with a sidebar and a main area titled 'Projects'. The projects are listed in a table format with columns for title, due date, and priority. The data is identical to the Kanban view, showing the same four projects: 'Are shorter titles more attractive for citations?' (low priority, June 25, 2024), 'Chapter 5 – Intelligent and Evolutionary Systems' (high priority, September 31, 2028), 'I should use ChatGPT for more titles' (medium priority, July 16, 2024), and 'Very easy project' (medium priority, February 23, 2024).

Project Title	Due Date	Priority
Are shorter titles more attractive for citations?	June 25, 2024	low
Chapter 5 – Intelligent and Evolutionary Systems	September 31, 2028	high
I should use ChatGPT for more titles	July 16, 2024	medium
Very easy project	February 23, 2024	medium

8.4.4 Timeline view



The screenshot shows the ScholarSync 'Projects' page in 'Timeline' view. The interface includes a sidebar with navigation links: Home, All projects (highlighted in blue), Calendar, User, and Message. The main area displays a table with columns for 'title' and 'priority'. The table data is as follows:

title	priority
Are shorter titles more a...	low
Chapter 5 – Intelligent a...	high
I should use ChatGPT fo...	medium

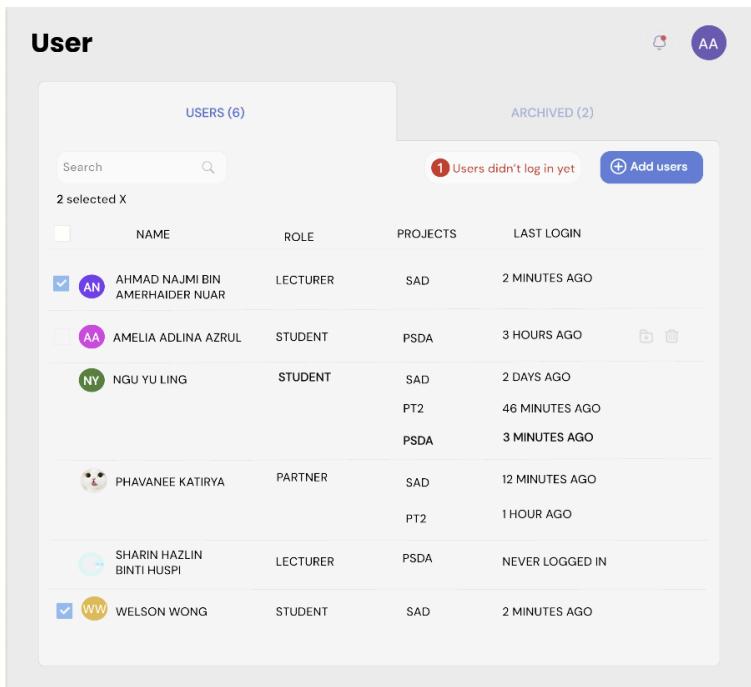
Below the table, a timeline shows the months of June 2024 and July 2024 with specific dates marked as 'project due'.

8.5 Calendar view



The screenshot shows the ScholarSync 'Calendar' view for June 2024. The sidebar includes links for Home, All projects, Calendar (highlighted in blue), User, and Chat. The main area displays a monthly calendar grid from June 1st to June 30th. The days of the week are labeled: Mon, Tue, Wed, Thu, Fri, Sat, Sun. The dates are arranged in a 6x7 grid. The 1st and 2nd are on Saturday, the 3rd is on Monday, and the 30th is on Sunday.

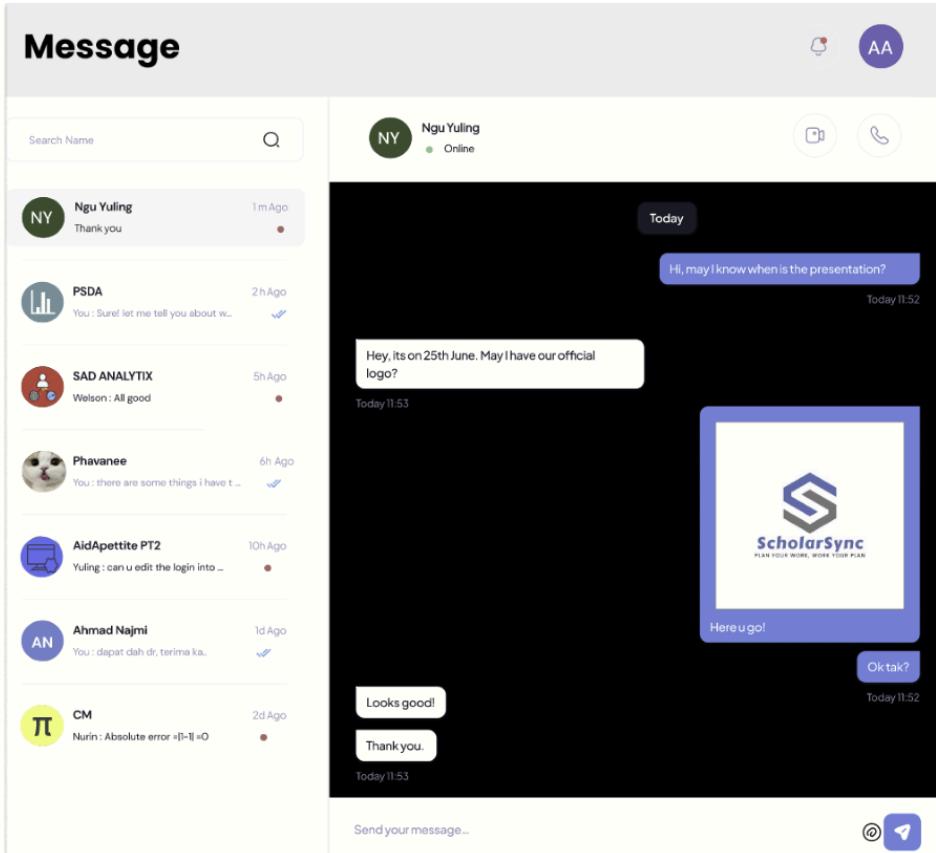
8.6 User View



The screenshot shows the 'User' section of the ScholarSync application. On the left, a sidebar menu includes 'Home', 'All projects', 'Calendar', 'User' (which is selected and highlighted in blue), and 'Message'. The main area is titled 'User' and shows a table of users. The table has columns for 'NAME', 'ROLE', 'PROJECTS', and 'LAST LOGIN'. There are 6 users listed under 'USERS (6)' and 2 users listed under 'ARCHIVED (2)'. A search bar is at the top of the table, and a button to 'Add users' is in the top right. A notification in the top right corner says '1 Users didn't log in yet'.

NAME	ROLE	PROJECTS	LAST LOGIN
AHMAD NAJMI BIN AMERHAIDER NUAR	LECTURER	SAD	2 MINUTES AGO
AMELIA ADLINA AZRUL	STUDENT	PSDA	3 HOURS AGO
NGU YU LING	STUDENT	SAD	2 DAYS AGO
		PT2	46 MINUTES AGO
		PSDA	3 MINUTES AGO
PHAVANEE KATIRYA	PARTNER	SAD	12 MINUTES AGO
		PT2	1 HOUR AGO
SHARIN HAZLIN BINTI HUSPI	LECTURER	PSDA	NEVER LOGGED IN
WELSON WONG	STUDENT	SAD	2 MINUTES AGO

8.7 Message view



The screenshot shows the 'Message' section of the ScholarSync application. On the left, a sidebar menu includes 'Home', 'All projects', 'Calendar', 'User' (selected and highlighted in blue), and 'Message' (selected and highlighted in blue). The main area is titled 'Message' and shows a list of messages on the left and a detailed message view on the right. The message list shows messages from 'Nyu Yulung', 'PSDA', 'SAD ANALYTIX', 'Phavanee', 'AidAppetite PT2', 'Ahmad Najmi', and 'CM'. The detailed view on the right is for a message from 'Nyu Yulung' (NY). It shows a list of messages with timestamps and a large image of the ScholarSync logo with the text 'Here u go!' and 'Oktak?'.

8.8 Add project

Project information

Title*

Project title

Enter a short descriptive title of your project

Start date

Choose Date

End date

Choose Date

Authors

First author*

Search and select first author

Please Select

Corresponding author

Other authors

Search and select other authors

Please Select

Corresponding author

Add author

Tasks

+ Add a sub-task

Tags

Area of study*

[+ Add tag](#) [Algorithm](#) [Data Structure](#) [Operating System](#)

Paper type*

[+ Add tag](#) [Experimental](#) [Survey](#) [Report](#)

Priority*

[+ Add tag](#) [Urgent](#) [Non-urgent](#) [Elective](#)

Databases and metrics tools

[+ Add tag](#) [Scopus Q1](#) [Scopus Q2](#) [Scopus Q3](#) [Scopus Q4](#) [ISI Q1](#) [ISI Q2](#) [ISI Q3](#) [ISI Q4](#)

Save as draft

Add project

8.9 Edit project

Edit project

Project information ☒

Title*

Enter a short descriptive title of your project

Start date February 23, 2024 **End date** September 31, 2028

Authors

First author* ALI BIN ABU Search and select first author Corresponding author

Other authors Please Select Search and select other authors Corresponding author

Add author

Tasks

[+ Add a sub-task](#)

- Email publisher
- Research content
- Watch video
- Start document

Tags

Area of study*

[+ Add tag](#) Algorithm Data Structure Operating System

Paper type*

[+ Add tag](#) Experimental Survey Report Book

Priority*

[+ Add tag](#) Urgent Non-urgent Elective

Databases and metrics tools

[+ Add tag](#) Scopus Q1 Scopus Q2 Scopus Q3 Scopus Q4 ISI Q1 ISI Q2 ISI Q3 ISI Q4

Save as draft Edit project

8.10 Complete tasks

Project information



Title*

Chapter 5 – Intelligent and Evolutionary Systems

Enter a short descriptive title of your project

Tasks

[+ Add a sub-task](#)

- Email publisher
- Research content
- Watch video
- Start document

Tags

Area of study*

[+ Add tag](#) Algorithm Data Structure Operating System

Paper type*

[+ Add tag](#) Experimental Survey Report Book

Priority*

[+ Add tag](#) Urgent Non-urgent Elective

Databases and metrics tools

[+ Add tag](#) Scopus Q1 Scopus Q2 Scopus Q3 Scopus Q4 ISI Q1 ISI Q2 ISI Q3 ISI Q4

Exit

Save progress

9.0 SUMMARY OF PROPOSED SYSTEM

Graduate students and lecturers engaged in academic research and writing face significant challenges in managing and organising their tasks. The reliance on spreadsheets and social media platforms results in disorganisation, buried documents, lack of timely notifications, and constant distractions, ultimately hampering productivity and the quality of academic work. The current methods fail to provide a clear visualisation of tasks, complicate the balancing of academic and co-curricular commitments, and pose challenges in scheduling and collaboration.

ScholarSync, a proposed digital task management system, aims to address these issues by centralising all aspects of paper writing and publication within a single application. This system will streamline the entire workflow, eliminating the inefficiencies of manually updating tasks and fixing deadlines across multiple apps. One of its key features is real-time collaboration, allowing users to instantly view and update each other's progress. This ensures efficient use of time and resources by preventing task duplication and delays.

Beside that, the system will also feature robust alert and reminder functionalities, reducing the risk of missed deadlines and overlooked updates. Each new task update, priority change, or deadline adjustment will trigger notifications, keeping users informed and on track. Enhanced accessibility ensures that all collaborators can access essential files and information stored centrally, rather than relying on individual local machines or personal messages. In-app collaboration tools, such as commenting and messaging, further improve information sharing and communication.

ScholarSync is designed for scalability, accommodating the needs of both students and advisors. It organises projects in an easily navigable format, with features like nested pages, tags, and dropdown menus to keep projects neatly arranged. Utilising cloud servers, the system can scale up or down according to the size of the operation, ensuring it remains manageable and efficient regardless of the number of users or projects.

Last but not least, ScholarSync enhances the security and privacy of research data through improved user authentication measures. This comprehensive solution promises to significantly boost the efficiency, organisation, and quality of academic research and writing, addressing the critical gaps in the current task management systems and paving the way for higher productivity and better-quality publications.