



School of Computing Faculty of Engineering

**SECP3723 – SYSTEM DEVELOPMENT
TECHNOLOGY**

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SDT TEST

NOTES MANAGEMENT SYSTEM

NAME : MULYANI BINTI SARIPUDDIN

MATRIC NUMBER: A22EC0223

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SUBJECT: SYSTEM DEVELOPMENT TECHNOLOGY

LECTURER : DR. AHMAD NAJMI BIN AMERHAIDER NUAR

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REPORT

1.0 System Introduction

In an age dominated by information overload, the Notes Management System emerges as a pivotal solution to streamline the way individuals organize, collaborate, and engage with their notes. Designed with a user-centric approach, this system represents a significant leap forward in efficient note-taking and task management.

The Notes Management System addresses the inherent challenges associated with traditional note-keeping methods. In response to the increasing need for a cohesive, user-friendly platform, our system provides an integrated solution for managing the diverse range of notes encountered in both personal and professional spheres.

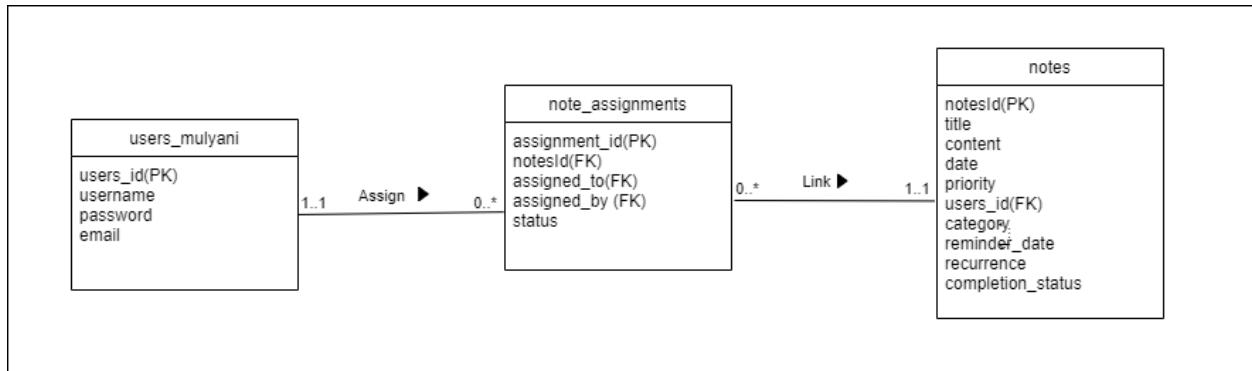
In response to the evolving landscape of digital productivity, the Notes Management System stands as a versatile solution tailored to meet the demands of modern collaborative work environments. With a focus on enhancing teamwork and optimizing time management, the system incorporates key features that redefine how individuals and teams engage with their tasks. The Collaborative Task Management feature redefines teamwork dynamics by providing users with the tools to assign tasks, share essential notes, and collaboratively update project statuses. This functionality transcends individual note-keeping, fostering a shared space where teams can seamlessly coordinate efforts, allocate responsibilities, and ensure everyone stays informed. By centralizing task-related communication within the platform, the system promotes a collaborative work ethos.

To further elevate organizational efficiency, the Notes Management System seamlessly integrates with a dynamic calendar. This Calendar Integration empowers users to synchronize their notes with a visual representation of time, facilitating effective time management and task scheduling. Whether setting deadlines, marking milestones, or aligning notes with specific dates, the integrated calendar serves as a central hub for orchestrating workflow. The result is a harmonized approach to task prioritization and project timelines. These key features represent a paradigm shift in how teams approach collaborative work and time management. By amalgamating task assignment, note-sharing, and calendar synchronization, the system transcends traditional note-keeping boundaries. It empowers individuals and teams to not only capture ideas but also to actively collaborate, track progress, and navigate project timelines with precision.

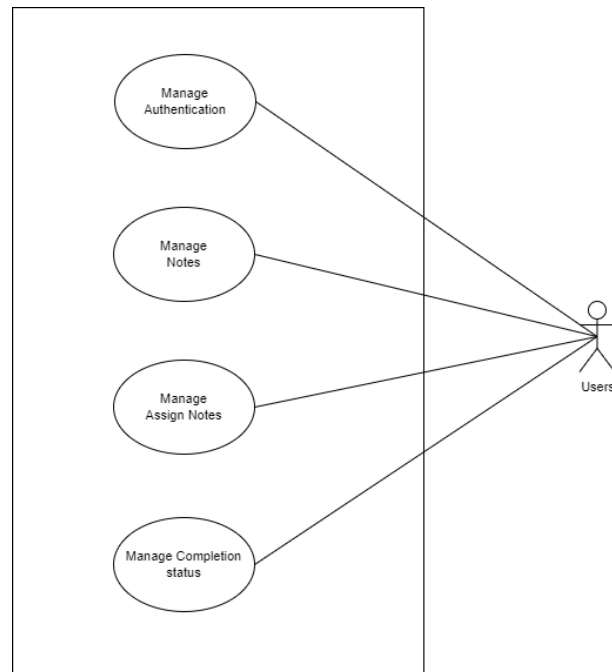
In an era where effective collaboration and efficient time utilization define success, the Notes Management System emerges as a catalyst for streamlined workflows and enhanced productivity.

2.0 System Design (ERD, Use Case)

2.1 ERD



2.2 Use Case



3.0 Development Software, Language, Technology and Tools (provide URL)

3.1 Development Software

- Visual Studio Code

3.2 Language

- JavaScript
- HTML
- CSS
- PHP

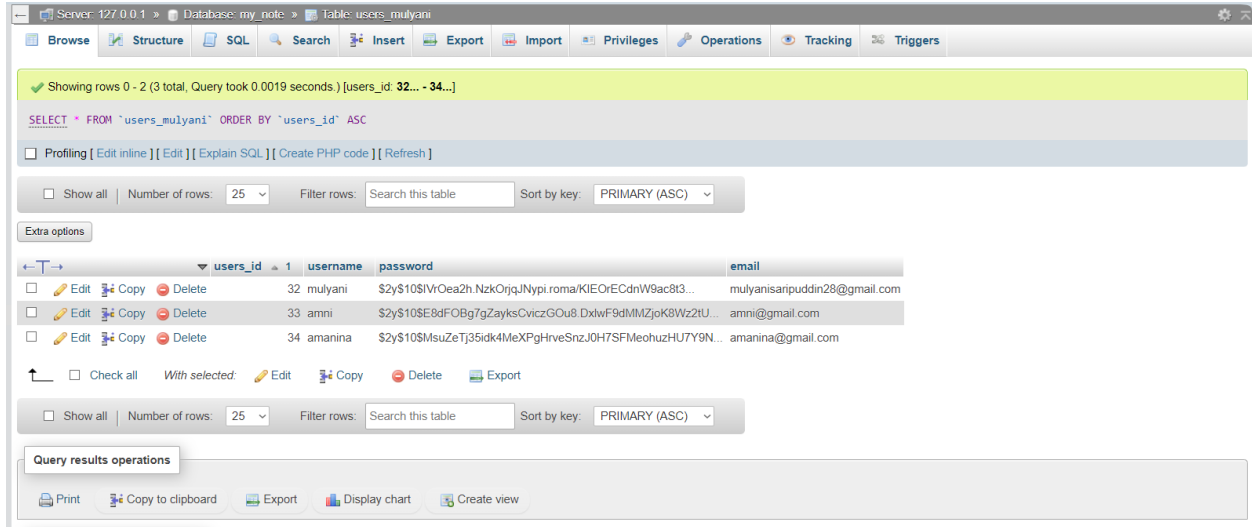
3.3 Technology and Tools

- MySQL
- MongoDB
- FileZilla

4.0 Database design (phpMyAdmin screenshot)

4.1 Table Users (users_mulyani)

4.1.1 Browse



4.1.2 Structure

Server: 127.0.0.1 » Database: my_note » Table: users

Buttons: Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, Triggers

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	users_id	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	username	varchar(25)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	3	password	varchar(250)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	4	email	varchar(255)	utf8mb4_general_ci	No	None			Change Drop More

Check all | With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Spatial](#) [Fulltext](#) [Add to central columns](#)

[Remove from central columns](#)

Print | [Propose table structure](#) | [Track table](#) | [Move columns](#) | [Normalise](#)

Add 1 column(s) after email [Go](#)

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	users_id	2	A	No	

Create an index on 1 columns [Go](#)

4.2 Table Notes (notes)

4.2.1 Browse

Server: 127.0.0.1 » Database: my_note » Table: notes

Buttons: Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, Triggers

Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

`SELECT * FROM `notes``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	notesId	title	content	date	priority	users_id	category	reminder_date	recurrence	completion_status
<input type="checkbox"/> Edit Copy Delete	87	Study Sessions	Prepare for Exam	2024-01-30 21:00:00	Low	32	study	2024-01-24 08:00:00		Not Started
<input type="checkbox"/> Edit Copy Delete	88	Project Meeting	Discuss Project Update	2024-01-26 19:10:00		33	work	2024-01-22 08:00:00	daily	Not Started
<input type="checkbox"/> Edit Copy Delete	89	Coding Practice	Solve Coding Problems	2024-01-31 10:00:00	High	34	study	2024-01-26 17:00:00	daily	Ongoing
<input type="checkbox"/> Edit Copy Delete	90	Book Club	Read assigned chapters	2024-02-15 20:30:00		34	personal	2024-01-23 08:00:00	daily	Not Started
<input type="checkbox"/> Edit Copy Delete	91	Database Assignment	Database ERD	2024-01-24 20:27:00		32	study	2024-01-21 20:27:00	daily	Completed
<input type="checkbox"/> Edit Copy Delete	92	SDT Test	Note Management System	2024-01-27 23:59:00	High	32	study	2024-01-21 23:27:00	weekly	Ongoing

Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

4.2.2 Structure

The screenshot shows the 'Structure' tab for the 'notes' table in the 'my_note' database. The table has 10 columns: #, Name, Type, Collation, Attributes, Null, Default, Comments, Extra, and Action. The columns are: 1. notesId (int(11), PRIMARY, AUTO_INCREMENT), 2. title (text), 3. content (text), 4. date (datetime), 5. priority (enum('Low', 'Normal', 'High', 'Urgent')), 6. users_id (int(11), FOREIGN KEY to users), 7. category (varchar(255)), 8. reminder_date (datetime), 9. recurrence (varchar(20)), and 10. completion_status (varchar(255)). Below the table structure, there are options to 'Check all', 'With selected', and 'Remove from central columns'. There are also buttons for 'Print', 'Propose table structure', 'Track table', 'Move columns', and 'Normalise'. At the bottom, there is an 'Indexes' section showing two indexes: 'PRIMARY' (BTREE, Yes, No, notesId, 6, A, No) and 'fk_users_id' (BTREE, No, No, users_id, 6, A, No).

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	notesId	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	title	text	utf8mb4_general_ci		No	None			Change Drop More
3	content	text	utf8mb4_general_ci		No	None			Change Drop More
4	date	datetime			No	None			Change Drop More
5	priority	enum('Low', 'Normal', 'High', 'Urgent')	utf8mb4_general_ci		No	None			Change Drop More
6	users_id	int(11)			No	None			Change Drop More
7	category	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
8	reminder_date	datetime			Yes	NULL			Change Drop More
9	recurrence	varchar(20)	utf8mb4_general_ci		Yes	NULL			Change Drop More
10	completion_status	varchar(255)	utf8mb4_general_ci		Yes	Not Started			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	notesId	6	A	No	
Edit Rename Drop	fk_users_id	BTREE	No	No	users_id	6	A	No	

4.3 Table Note Assign (note_assignment)

4.3.1 Browse

The screenshot shows the 'Browse' tab for the 'note_assignments' table in the 'my_note' database. The table has 6 columns: assignment_id, notesId, assigned_to, assigned_by, and status. The table shows 5 rows of data. The first row is highlighted. Below the table, there are options to 'Show all', 'Number of rows', 'Filter rows', and 'Sort by key'. There are also buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

assignment_id	notesId	assigned_to	assigned_by	status
18	89	32	34	Not Started
19	90	33	34	Ongoing
20	90	34	32	Not Started
21	91	33	32	Ongoing
22	91	34	32	Not Started

Query results operations

Print Copy to clipboard Export Display chart Create view

4.3.2 Struct

Server: 127.0.0.1 » Database: my_note » Table: note_assignments

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	assignment_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	notesId	int(11)			Yes	NULL			Change Drop More
3	assigned_to	int(11)			Yes	NULL			Change Drop More
4	assigned_by	int(11)			Yes	NULL			Change Drop More
5	status	varchar(255)	utf8mb4_general_ci		No	Not Started			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalise

Add 1 column(s) after status Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	assignment_id	5	A	No	
Edit Rename Drop	fk_assigned_to	BTREE	No	No	assigned_to	5	A	Yes	
Edit Rename Drop	fk_assigned_by	BTREE	No	No	assigned_by	5	A	Yes	
Edit Rename Drop	fk_notesId	BTREE	No	No	notesId	5	A	Yes	

5.0 Development Steps

1. Stakeholder Documentation Analysis:

- Thoroughly examine the documentation provided by stakeholders to understand their specific requirements and expectations for the Note Management System.
- Identify key features, functionalities, and constraints outlined in the stakeholder document.

2. Project Requirement Refinement & Planning:

- Collaborate with stakeholders to refine and clarify project requirements based on the stakeholder document.
- Develop a comprehensive project plan, outlining timelines, resource allocations, and milestones.

3. Design and Prototyping:

- Create a detailed system design, considering the refined requirements and stakeholder input.
- Develop prototypes or mockups to visualize the system's layout, ensuring alignment with stakeholder expectations.
- Facilitate stakeholder reviews and incorporate feedback into the design.

4. Software Development:

- Implement the frontend using HTML, CSS, and JavaScript, adhering to the finalized design.
- Develop robust backend functionalities using PHP to support collaborative features, note creation, assignment, and status tracking.

- Regularly communicate progress to stakeholders, ensuring alignment with their expectations.

5. Software Testing:

- Conduct rigorous testing, including unit testing and integration testing, to identify and rectify any defects.
- Engage stakeholders in user acceptance testing to validate that the system meets their specified requirements.

6. Deployment:

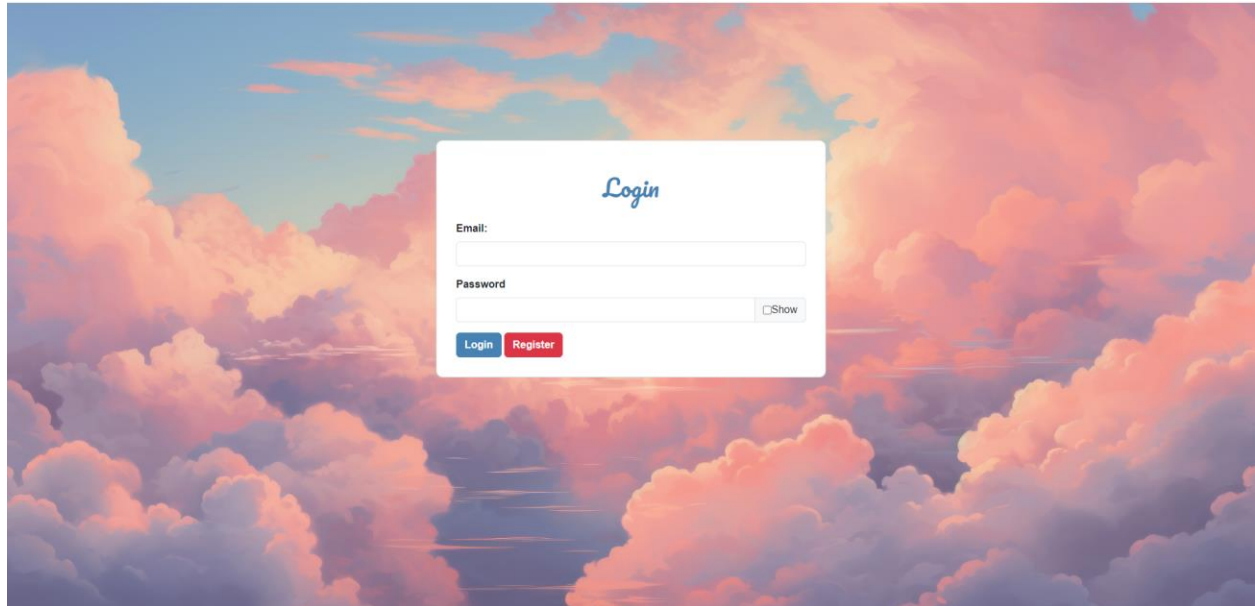
- Deploy the Note Management System to a live environment, making it accessible to users.
- Perform post-deployment monitoring to identify and address any issues promptly.

7. Maintenance and Updates:

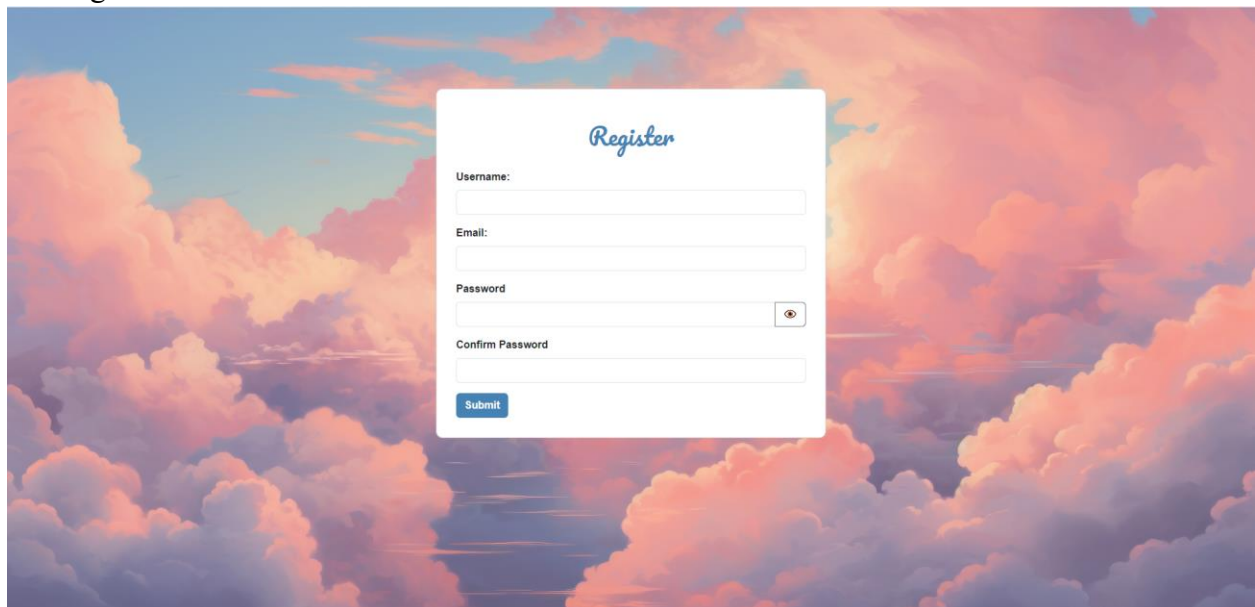
- Establish a structured maintenance plan to address any post-deployment issues and bugs.
- Implement updates and improvements based on ongoing stakeholder feedback and changing requirements.

6.0 System Interface for All Users

6.1 Login Page



6.2 Register



6.3 Dashboard

Note's ManagementEdit ProfileLogout

Mulyani's NotesAdd NoteList Notes

Reminder

Database Assignment
Database ERD
Due Date: 2024-01-24 20:27:00
Category: study
Reminder Date: 2024-01-21 20:27:00
Completion Status: Completed

SDT Test
Note Management System
Due Date: 2024-01-27 23:59:00
Category: study
Reminder Date: 2024-01-21 23:27:00
Completion Status: Not Started

< > todayJanuary 2024month week day

Sun	Mon	Tue	Wed	Thu	Fri	Sat
-----	-----	-----	-----	-----	-----	-----

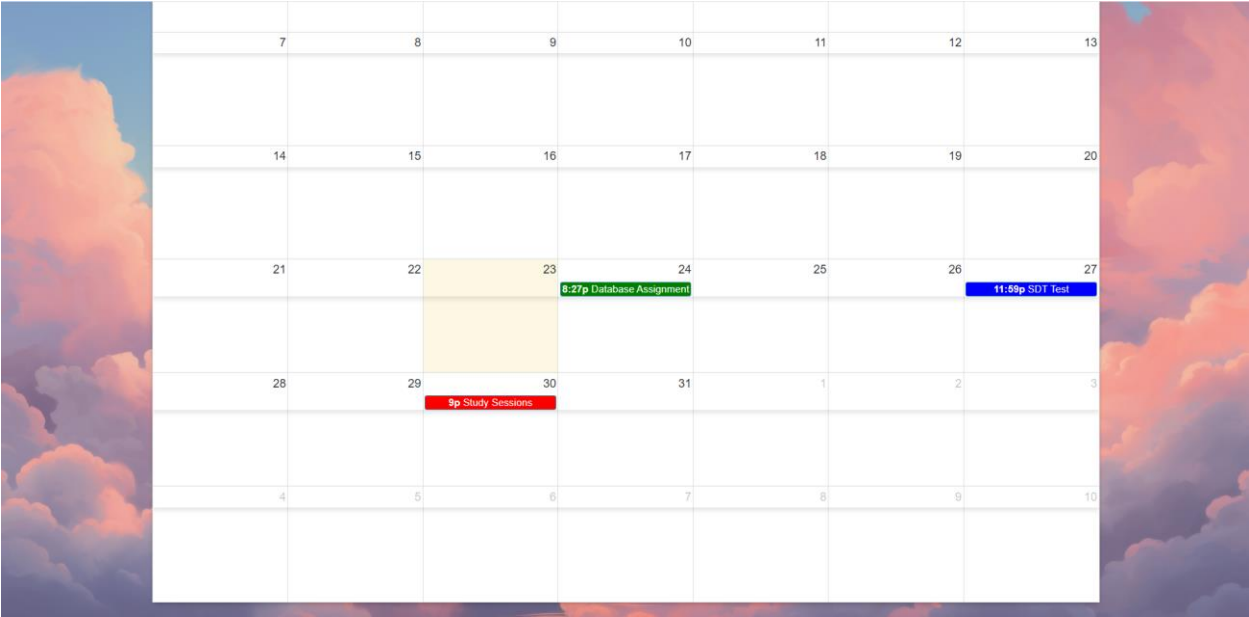
< > todayJanuary 2024month week day

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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	31	1	2	3

8p Study Sessions

6:27p Database Assignment

11:59p SDT Test



6.4 List Notes

Note's ManagementDashboardEdit ProfileLogout

Mulyani's Notes

Add NotesOwn Notes

Show: 10 entries

Search:

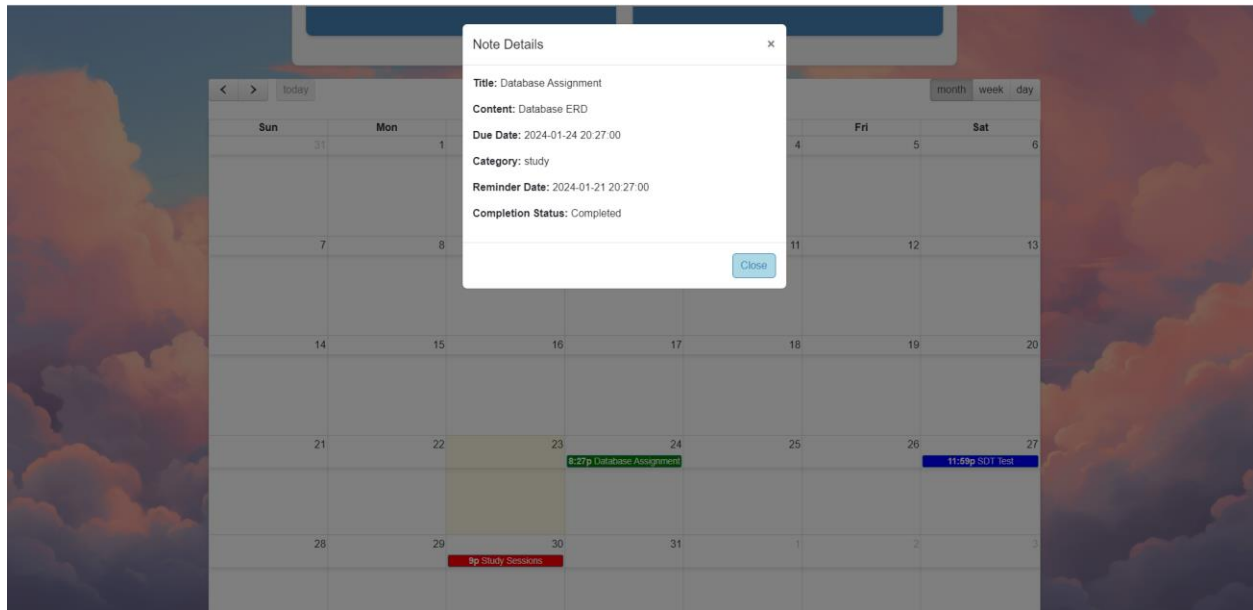
No	Title	Description	Due Date	Details	Action
2	Database Assignment	Database ERD	2024-01-24 20:27:00	1	<div><div></div><div></div><div></div></div>
3	SDT Test	Note Management System	2024-01-27 23:59:00	1	<div><div></div><div></div><div></div></div>
1	Study Sessions	Prepare for Exam	2024-01-30 21:00:00	1	<div><div></div><div></div><div></div></div>
4	Coding Practice	Solve Coding Problems	2024-01-31 10:00:00	1	<div><div></div><div></div><div></div></div>

Showing 1 to 4 of 4 entries

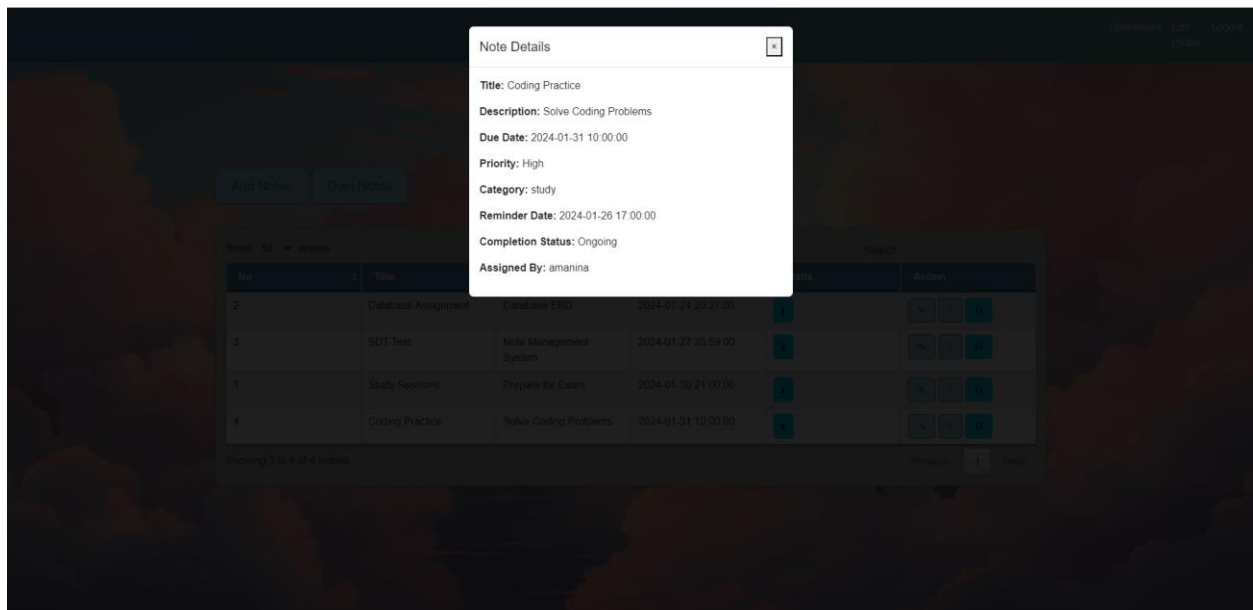
Previous1Next

6.5 Details

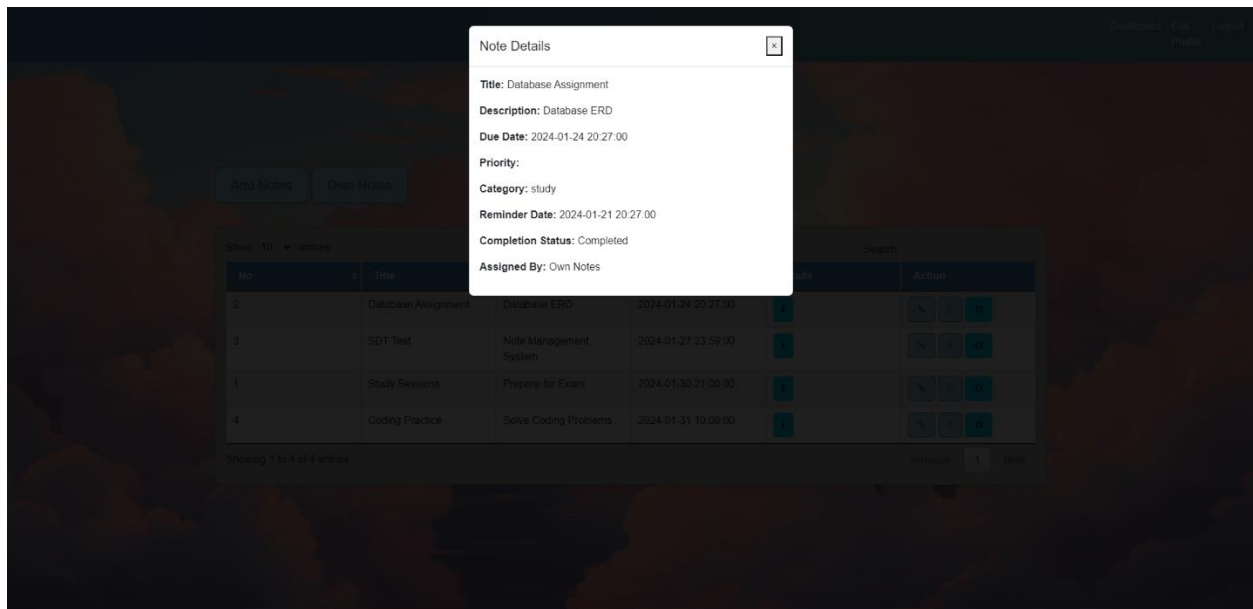
a) Details open from Dashboard Calendar



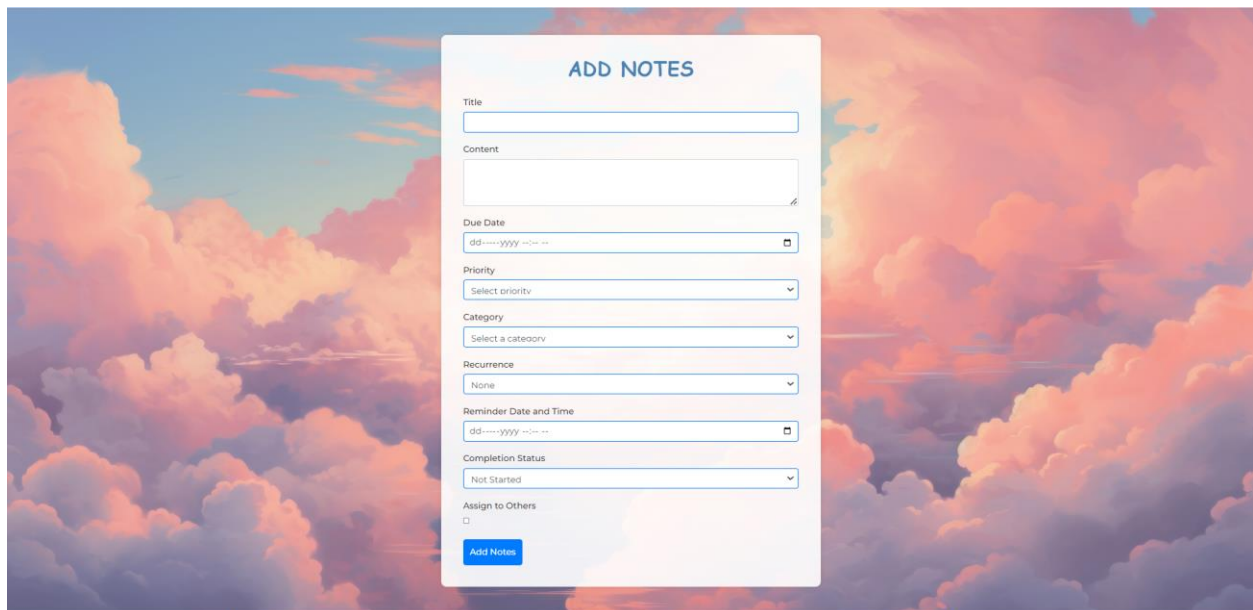
b) Details open from page List Notes (assigned by other user)



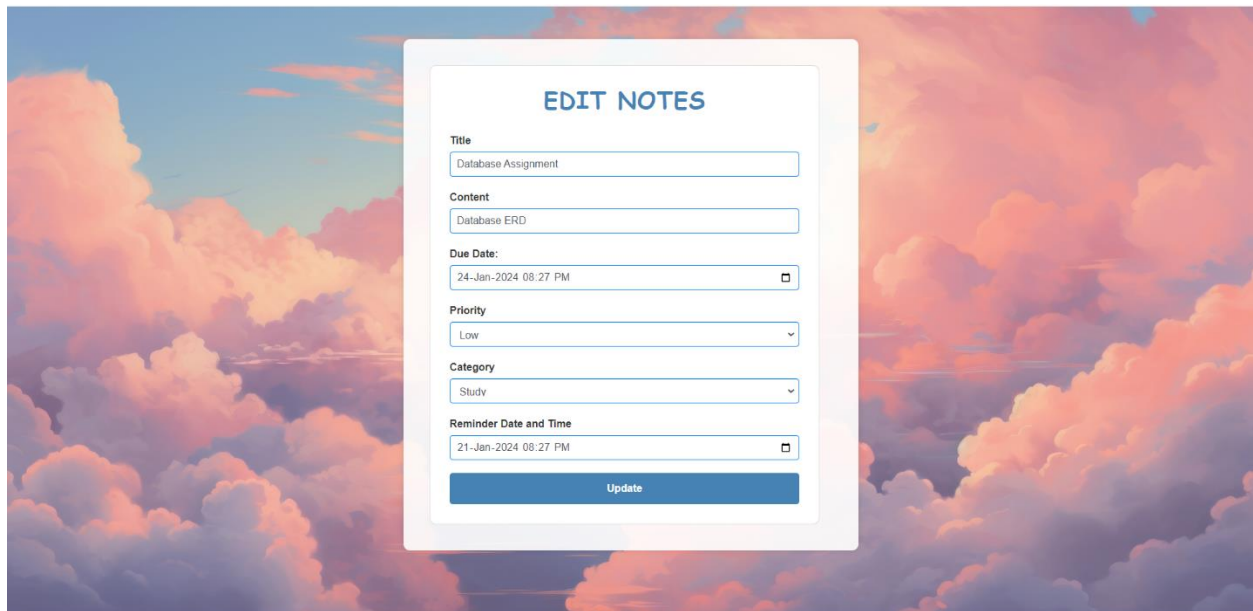
c) Details open from page List Notes (assigned by others user)



6.6 Add Notes



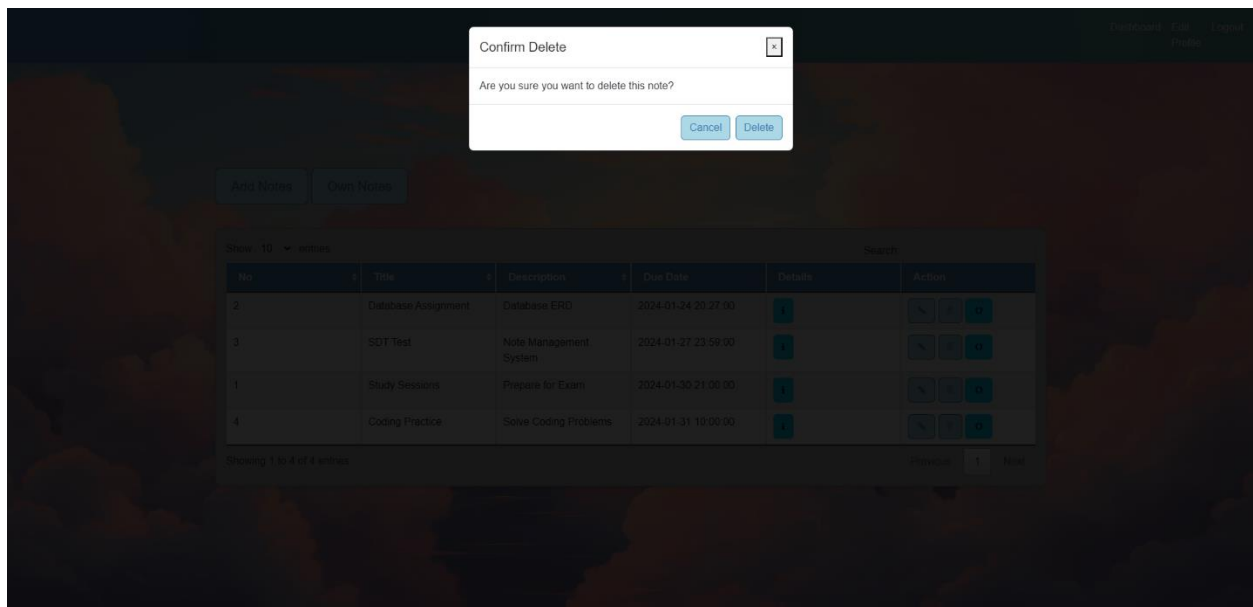
6.7 Edit Notes















The 'EDIT NOTES' form is a white modal box centered on a background of vibrant, colorful clouds at sunset. The form contains the following fields and controls:

- Title:** A text input field containing 'Database Assignment'.
- Content:** A text input field containing 'Database ERD'.
- Due Date:** A date and time picker showing '24-Jan-2024 08:27 PM' with a calendar icon.
- Priority:** A dropdown menu currently set to 'Low'.
- Category:** A dropdown menu currently set to 'Study'.
- Reminder Date and Time:** A date and time picker showing '21-Jan-2024 08:27 PM' with a calendar icon.
- Update:** A blue button at the bottom of the form.

6.8 Delete Notes

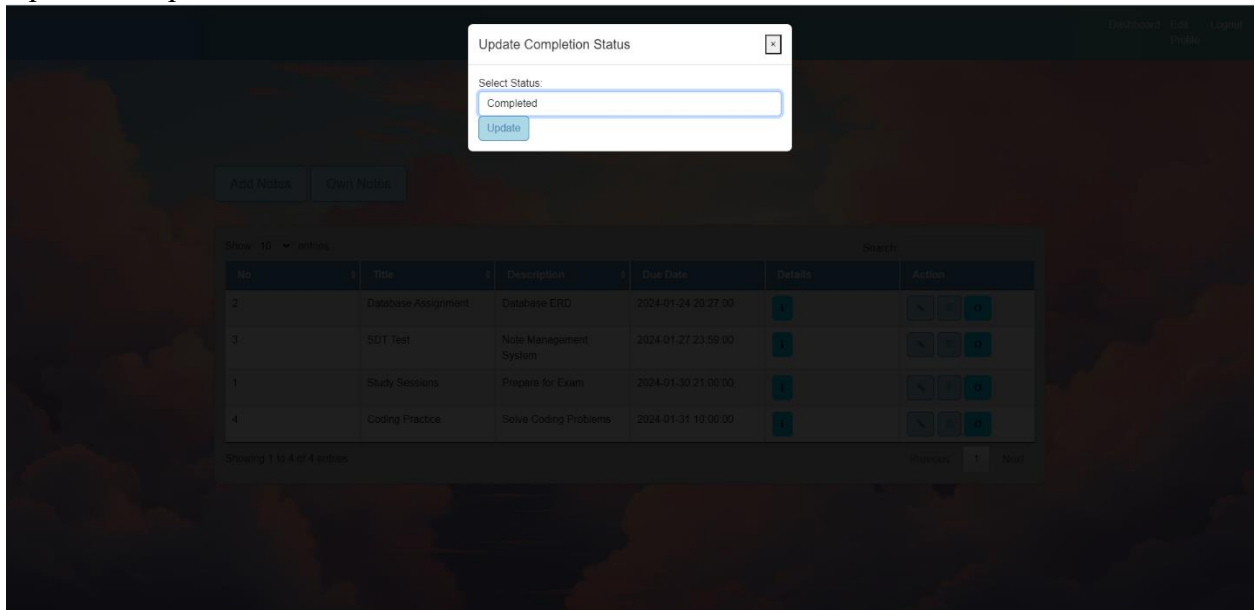


The screenshot shows a 'Confirm Delete' dialog box overlaid on a dark-themed application interface. The dialog asks 'Are you sure you want to delete this note?' and has 'Cancel' and 'Delete' buttons. Below the dialog, a table lists four notes. The table has columns for No., Title, Description, Due Date, Details, and Action. The first row is highlighted.

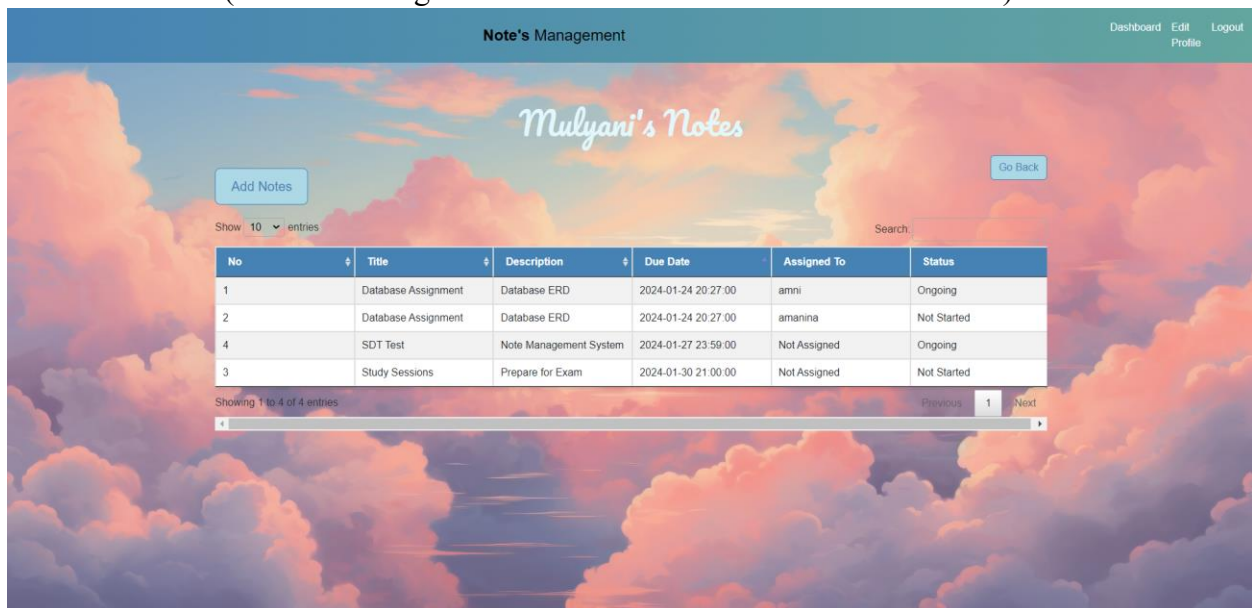
No.	Title	Description	Due Date	Details	Action
2	Database Assignment	Database ERD	2024-01-24 20:27:00		 
3	SDT Test	Note Management System	2024-01-27 23:59:00		 
1	Study Sessions	Prepare for Exam	2024-01-30 21:00:00		 
4	Coding Practice	Solve Coding Problems	2024-01-31 10:00:00		 

Showing 1 to 4 of 4 entries

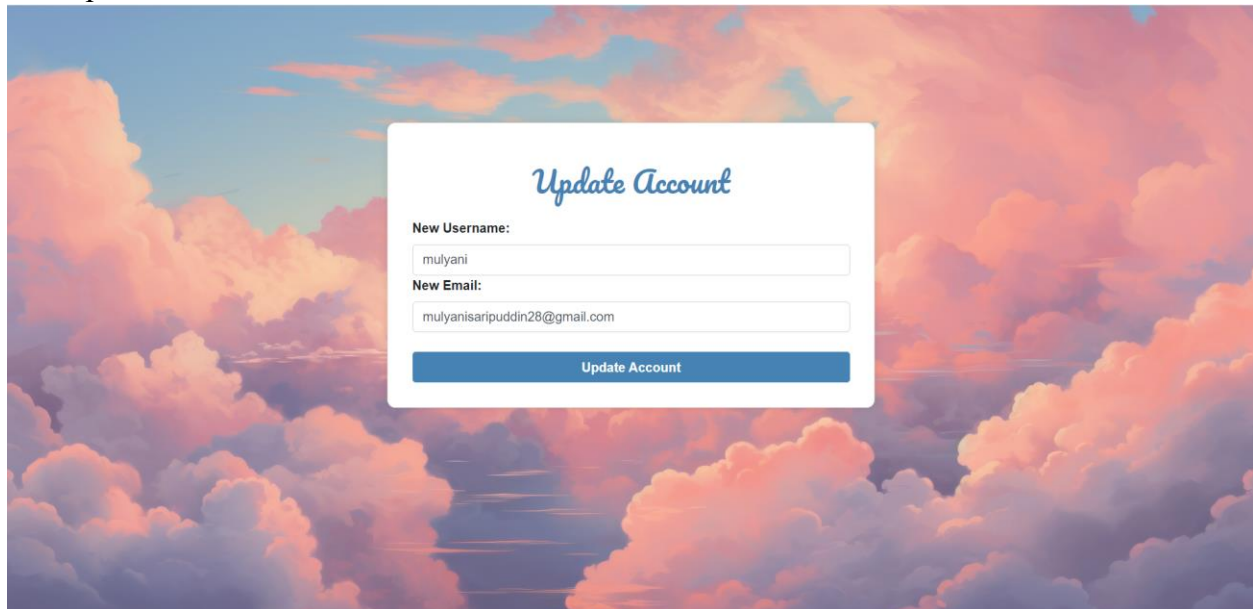
6.9 Update Completion Status



6.10 Own Notes (notes that assigned to other user or notes that the user create).



6.11 Update Account



The image shows a web form titled "Update Account" centered on a background of vibrant, colorful clouds in shades of orange, pink, and blue. The form is white with a thin blue border. It contains two input fields: "New Username:" with the text "mulyani" and "New Email:" with the text "mulyanisaripuddin28@gmail.com". Below these fields is a blue button labeled "Update Account".

7.0 Localhost Setup

1. Visit the official XAMPP website

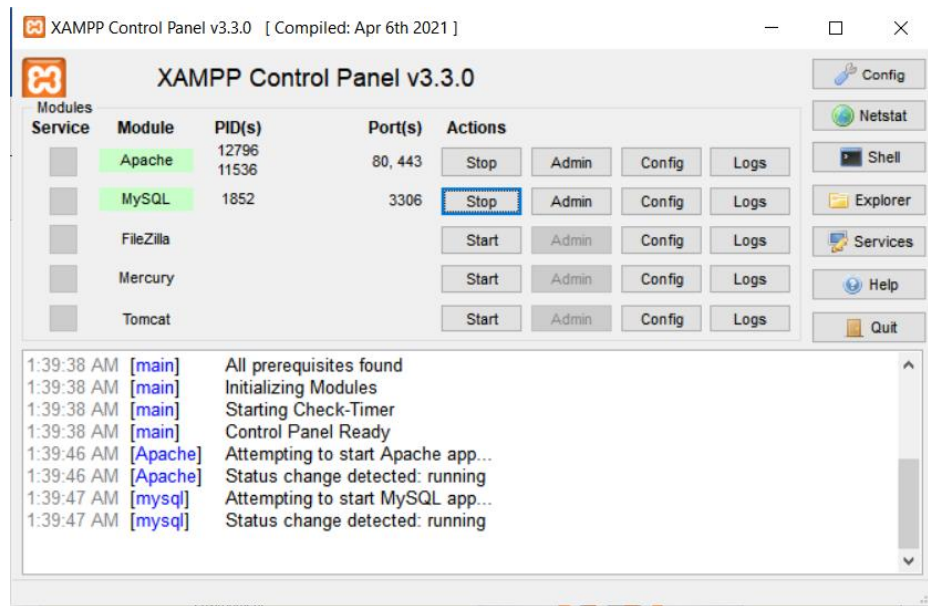
<https://www.apachefriends.org/>

2. Download the version XAMPP for Windows



3. Start XAMPP

Start the Apache server by clicking the “Start” button next to Apache and MySQL.

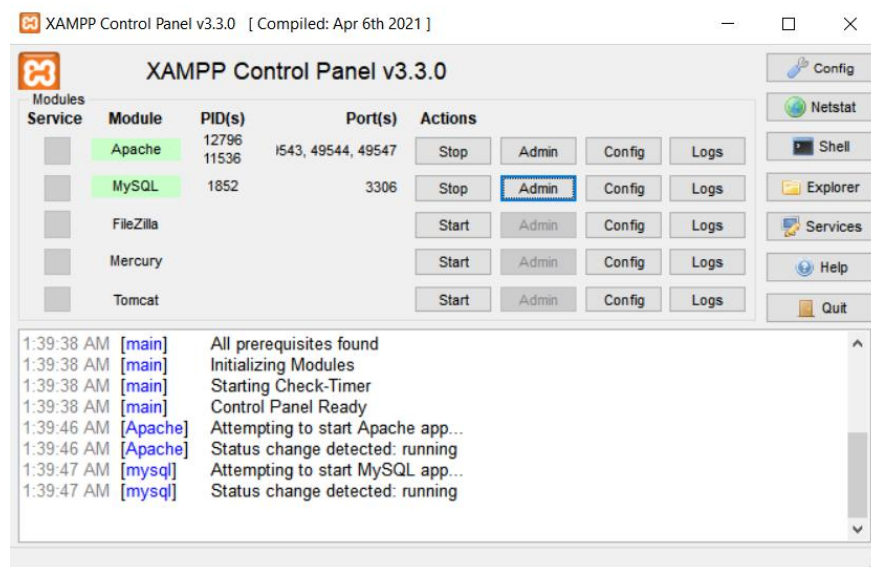


4) Open web browser and enter <http://localhost>

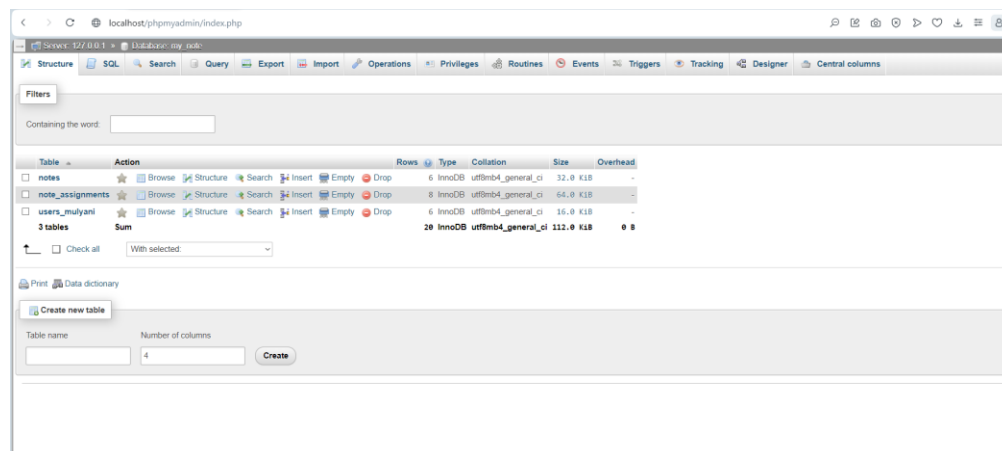
XAMPP welcome page



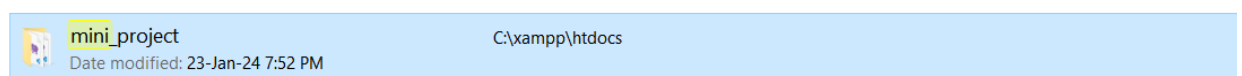
5) Click Admin button next to MySQL in the XAMPP control panel



6) Setup all the database table



7) Create file directory name mini_project



8) Open http://localhost/mini_project

8.0 URL

<https://youtu.be/eA27jlwwmgM>

9.0 User credentials

9.1 First User

Email : mulyanisaripuddin@gmail.com

Password: Ain_030622

9.2 Second User

Email : amanina@gmail.com

Password: amanina_030622