



## **COMPUTER ENGINEERING DEPARTMENT**

**Report on:  
Study Buddy**

**Submitted By**

**Solanki Shweta (12302040701173)  
Shah Shikhaa (12302040701165)  
Zala Shraddha (12302040701167)**

**Under the Subject of  
Web Development**

# Study Buddy / Study App — Project Report

## Abstract

The Study Buddy (Study App) is a web-based application developed using PHP, MySQL, and CSS, aimed at helping students manage study materials, notes, flashcards, schedules, and tasks in a unified interface. This report describes the motivation, architecture, modules, implementation, and future enhancements. The system intends to simplify study workflows and boost productivity by centralizing features like note management, flashcards, calendar scheduling, task tracking, and user authentication.

## Introduction

### Problem Statement:

Students often juggle multiple tools — note apps, planners, flashcards, reminders — which leads to fragmentation, duplication, and inefficiencies. A unified system to manage study tasks, lecture notes, flashcards, and schedule reminders can reduce this overhead and help students stay organized.

### Objectives

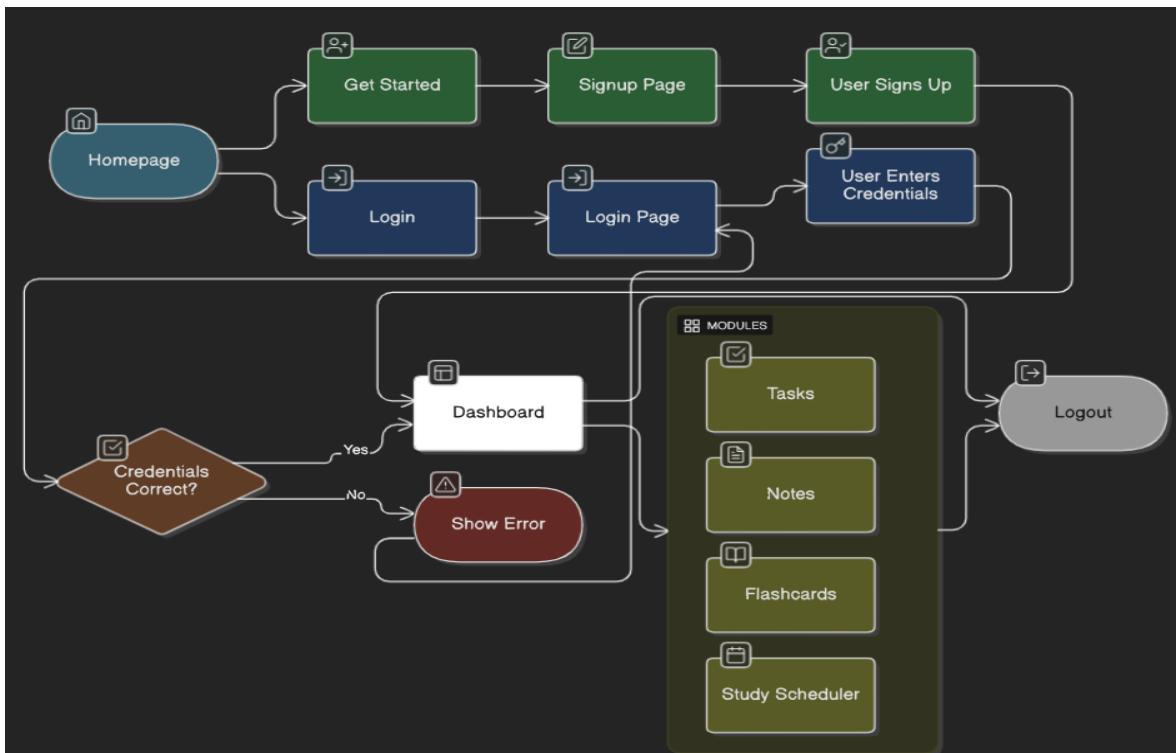
- Provide a centralized interface that incorporates notes, flashcards, schedules, and task tracking.
- Offer user authentication and personalization.
- Enable CRUD (Create, Read, Update, Delete) operations for various modules.
- Present a responsive and intuitive UI.
- Allow for future expansion (e.g. mobile app, analytics, collaboration).

## Proposed System

The proposed system integrates major student study functions (notes, flashcards, schedule, tasks) under one roof. A web application with backend in PHP and data storage in MySQL. The user logs in, sees dashboard, and can navigate modules.

### High Level Architecture

- Client side: HTML + CSS + some JavaScript
- Server side: PHP scripts handling requests, queries, and serving pages
- Database: MySQL storing tables for users, notes, tasks, flashcards, schedule entries
- Session management: PHP sessions to manage login state
- Routing / pages: Different PHP pages (e.g. notes.php, flashcards.php, dashboard.php)



## Modules & Features

| Module / File                                | Functionality / Description  |
|--|--|
| index.php, login.php, signup.php, logout.php | Authentication: login, signup, session management, logout            |
| db.php                                       | Database connection — centralized file to connect to the DB          |
| dashboard.php                                | Main landing / portal after login showing user summary or navigation |
| notes.php                                    | Manage lecture / study notes — create, read, update, delete notes    |
| flashcards.php                               | Create and review flashcards (questions & answers)                   |
| calender.php                                 | Schedule / calendar module (add events, deadlines)                   |
| sidebar_tasks.php / update_task_status.php   | Task module: show tasks in sidebar, updating task status             |
| forgot_password.php, reset_password.php      | Password recovery workflow   |
| home.php                                     | Landing or user home page (before login or after)                    |
| uploaded_notes (folder)                      | A directory to store uploaded files / notes                          |

## Workflow Examples

- A student logs in → dashboard → clicks Notes → adds a new note with title + content → saved in DB → view list of notes → edit or delete.
- In Flashcards, user adds Q/A pairs, then reviews them (flip, random).
- In Calendar, user schedules study sessions or exam dates.
- In Tasks, user adds tasks, mark them complete and boost productivity with study timer feature.

## Tools & Technologies Used

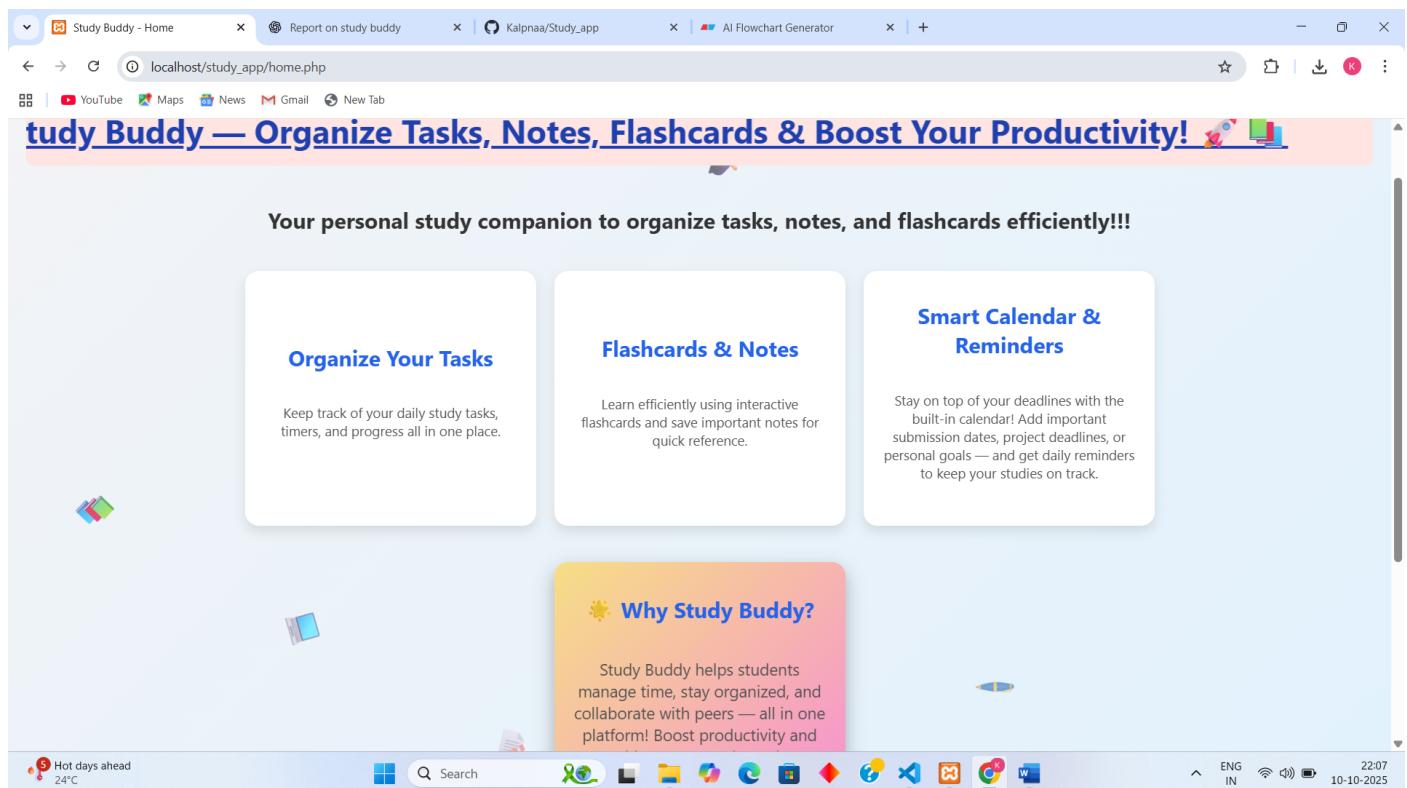
- **Backend Language:** PHP
- **Database:** MySQL
- **Frontend:** HTML / CSS /JavaScript
- **Web Server:** XAMPP environment
- **File uploads:** notes upload (files stored in uploaded\_notes)
- **Version Control:** Git / GitHub

## Database Schema

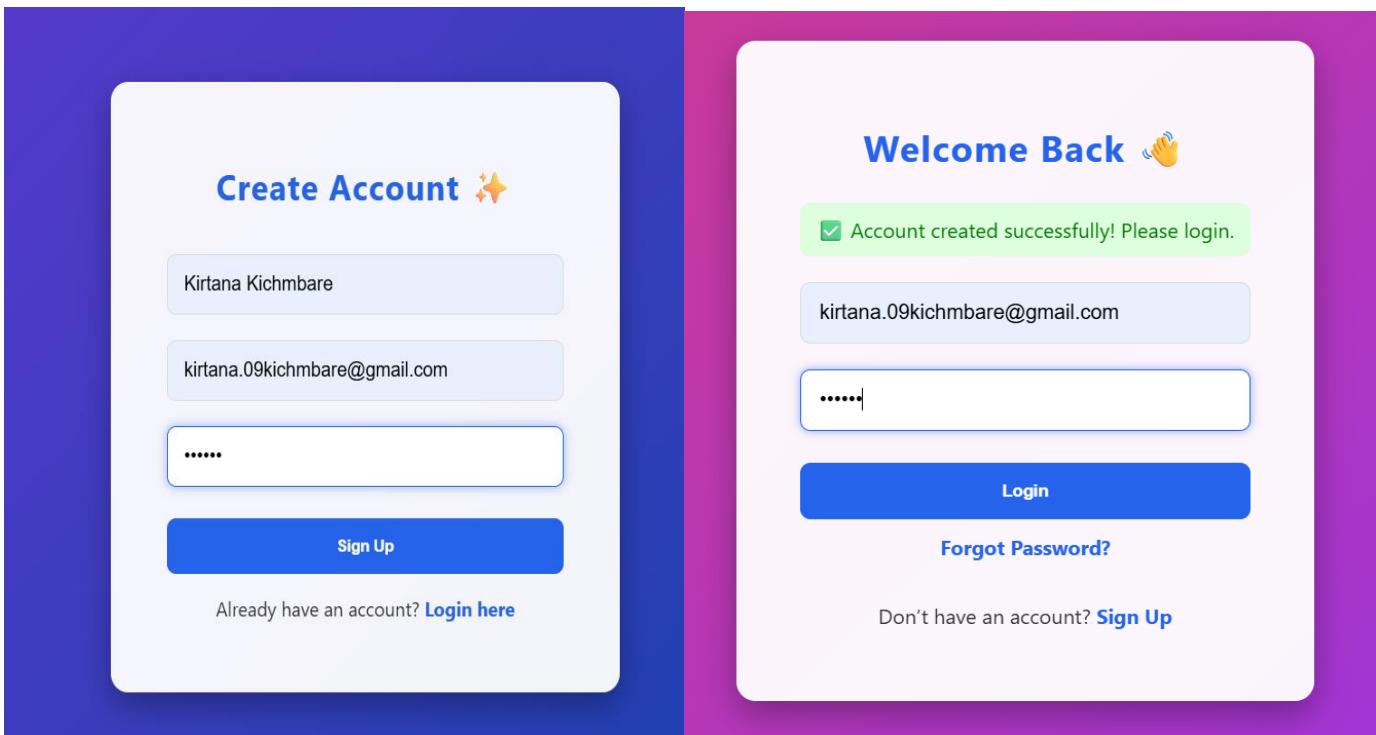
The Study Buddy application uses a MySQL database to store all user and study-related data. It contains tables for users, tasks, flashcards, notes, and deadlines, each linked to the user via foreign keys. The tables store essential information such as task status, flashcard content, notes (text or file), and scheduled deadlines, with automatic cascading deletes to maintain data integrity. This design ensures that all modules are connected and that user-specific data is organized efficiently. The database is created dynamically through PHP scripts, demonstrating full end-to-end implementation of backend storage for the application.

## Screenshots / Results:

- Home Page



- Login / signup page



- Dashboard

The screenshot shows the Study Buddy dashboard interface in a web browser.

**Left Sidebar (Dashboard):**

- Links:**
  - Dashboard
  - Tasks
  - Flashcards
  - Notes
  - Calendar
  - Logout

**Main Content Area:**

- Welcome Message:** "Welcome, Kirtana Kichmbare 🌟"
- How this web works:**
  - Text: "Click the button to see the steps"
  - Button: "Click Me"
- Add Task:**
  - Form fields: "Task title" and "Task description".
  - Button: "Add Task"
- Flashcards:**
  - Text: "Make flashcards to help with last minute revision"
  - Button: "Go to Flashcards"
- Upload Notes:**
  - Text: "Upload your notes and view them on the Notes page."
  - Button: "Go to Notes"

- Notes interface

The screenshot shows a web browser window with the URL [localhost/study\\_app/notes.php](http://localhost/study_app/notes.php). The page has a blue header bar with the title "Study-Buddy". On the left, there is a sidebar with icons for Dashboard, Tasks, Flashcards, Notes (which is highlighted), Calendar, and Logout. The main content area has a section titled "+ Write a Note" with a text input field containing "Write your note here...". Below it is a blue "Save Note" button and a green success message "Note saved!". There is also a section for "Upload Notes File" with a "Choose File" button showing "No file chosen" and a blue "Upload" button. Underneath these sections, there is a heading "Your Notes & Files" followed by a list of files: "AdJava Case study.docx" (File: [AdJava Case study.docx](#), 2025-10-10 22:12:39). At the bottom of the screen, there is a Windows taskbar with various pinned icons and system status indicators.

- Flashcards

The screenshot shows the Study-Buddy application interface. On the left, a sidebar menu includes options like Dashboard, Tasks, Flashcards (which is selected), Notes, Calendar, and Logout. The main content area has a pink header bar with the text "Your Flashcards, Kirtana Kichmbare 🎉". Below this is a form titled "Add Flashcard" with fields for "Question" and "Answer", and a blue "Add" button. To the right, there's a section titled "Flashcards" containing a teal box with the text "Hypertext Markup Language". At the bottom, a taskbar shows various icons and the date/time: 10-10-2025, 22:14, ENG IN.

- Calendar view

The screenshot shows the Study-Buddy application interface with the Calendar feature selected in the sidebar. The main content area includes a form for "Add Deadline" with fields for "Deadline title", "Description (optional)", and a date picker, followed by a blue "Add Deadline" button. To the right is a "Deadline Calendar" for October 2025, showing days from Sunday to Saturday. Specific dates like October 10th and 21st are highlighted in yellow and marked with green dots and text indicating deadlines: "12a java" and "12a CN A". The taskbar at the bottom includes the date/time: 10-10-2025, 22:16, ENG IN.

### 📌 Upcoming Deadlines This Week

java - 10/11/2025

- Task sidebar

The screenshot shows a web application interface for 'Study-Buddy'. The left sidebar is blue and contains links for Dashboard, Tasks (which is selected), Flashcards, Notes, Calendar, and Logout. The main content area has a pink header bar with the text 'Your Tasks, Kirtana Kichmbare 🎉'. Below this, there are two sections: 'All Tasks' and 'Add Task'. The 'All Tasks' section lists a single task: 'Java ppt : make ppt on any topic and upload it on drive enter the time limit which you want.' It includes a timer set for 25 minutes, a 'Pause' button, and a 'Mark Complete' button. The 'Add Task' section allows users to input a task name ('Java ppt') and description ('make ppt on any topic and upload it on drive'), and a 'Add Task' button. A success message 'Task added successfully!' is displayed. The bottom of the screen shows a Windows taskbar with various icons and system status information.

Study-Buddy - Tasks

Kalpanaa/Study\_app

localhost/study\_app/sidebar\_tasks.php#

YouTube Maps News Gmail New Tab

Study-Buddy

Dashboard

Tasks

Flashcards

Notes

Calendar

Logout

24°C Clear

Search

22:18 10-10-2025

Your Tasks, Kirtana Kichmbare 🎉

All Tasks

- Java ppt : make ppt on any topic and upload it on drive enter the time limit which you want.

min 24:59 II Pause Mark Complete

Add Task

Java ppt

make ppt on any topic and upload it on drive

Add Task

Task added successfully!