



**Madhuben & Bhanubhai Patel Institute
of Technology**

(A Constituent College of CVM University)



COMPUTER ENGINEERING DEPARTMENT

**Report on:
Study Buddy**

Submitted By

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**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

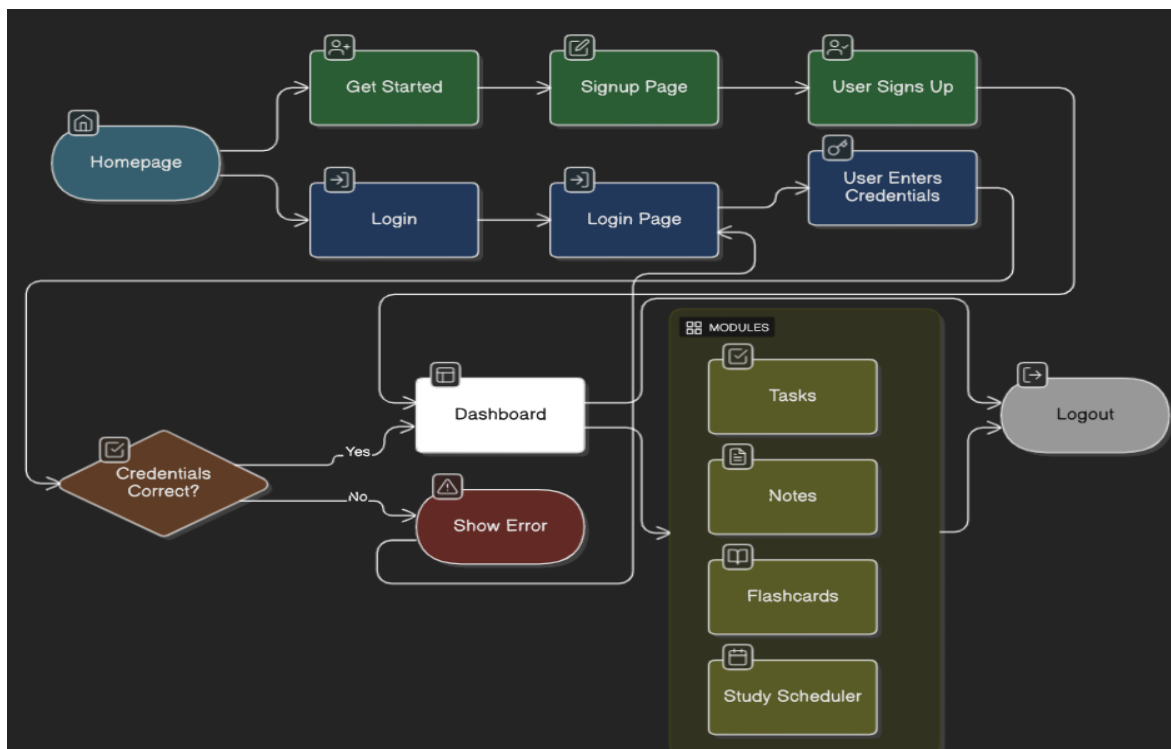
- Provide a centralized interface that incorporates notes, flashcards, schedules, and task tracking.
- Offer user authentication and personalization.
- Enable CRUD (Create, Read, Update, Delete) operations for various modules.
- Present a responsive and intuitive UI.
- Allow for future expansion (e.g.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

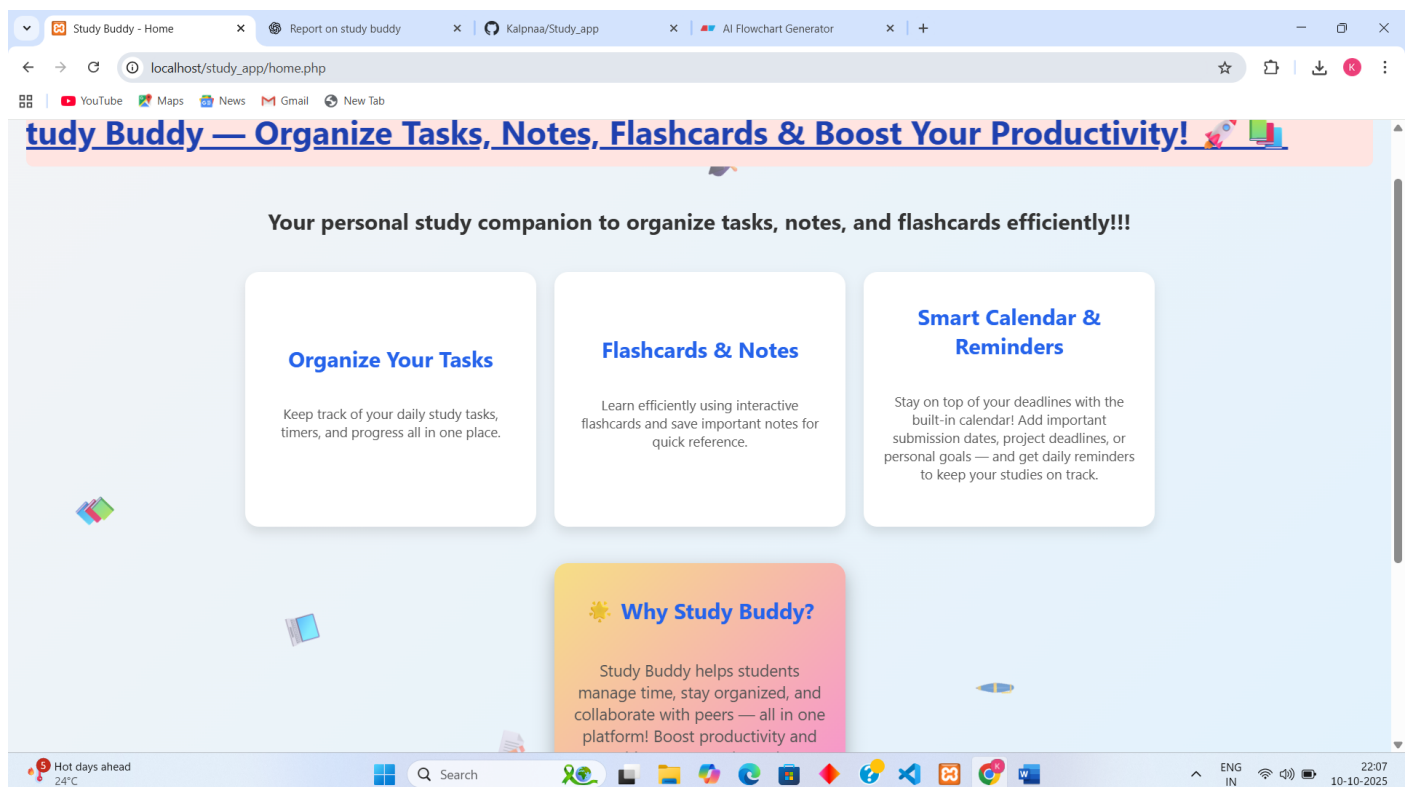
- **Backend Language:** PHP
- **Database:** MySQL
- **Frontend:** HTML / CSS / JavaScript
- **Web Server:** XAMPP environment
- **File uploads:** notes upload (files stored in uploaded_notes)
- **Version Control:** Git / GitHub

Database Schema

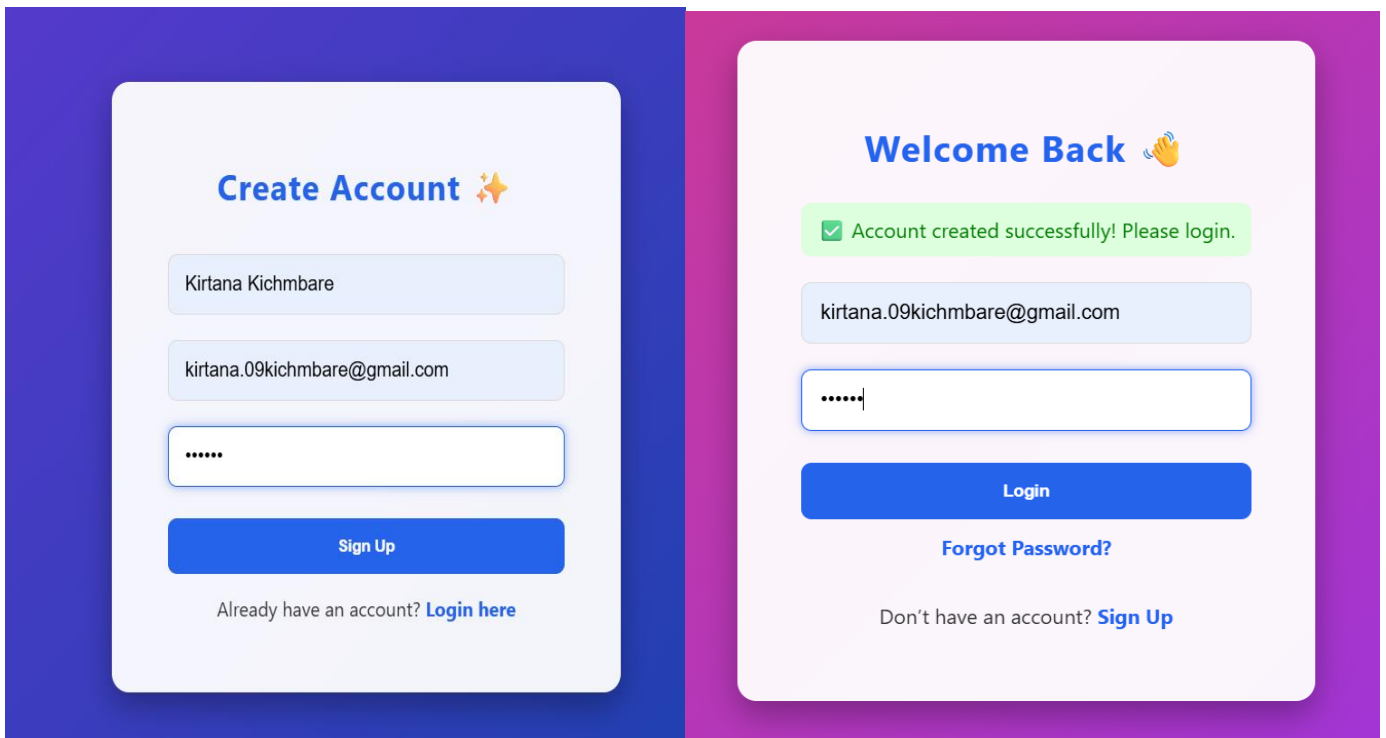
The Study Buddy application uses a MySQL database to store all user and study-related data. It contains tables for users, tasks, flashcards, notes, and deadlines, each linked to the user via foreign keys. The tables store essential information such as task status, flashcard content, notes (text or file), 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:

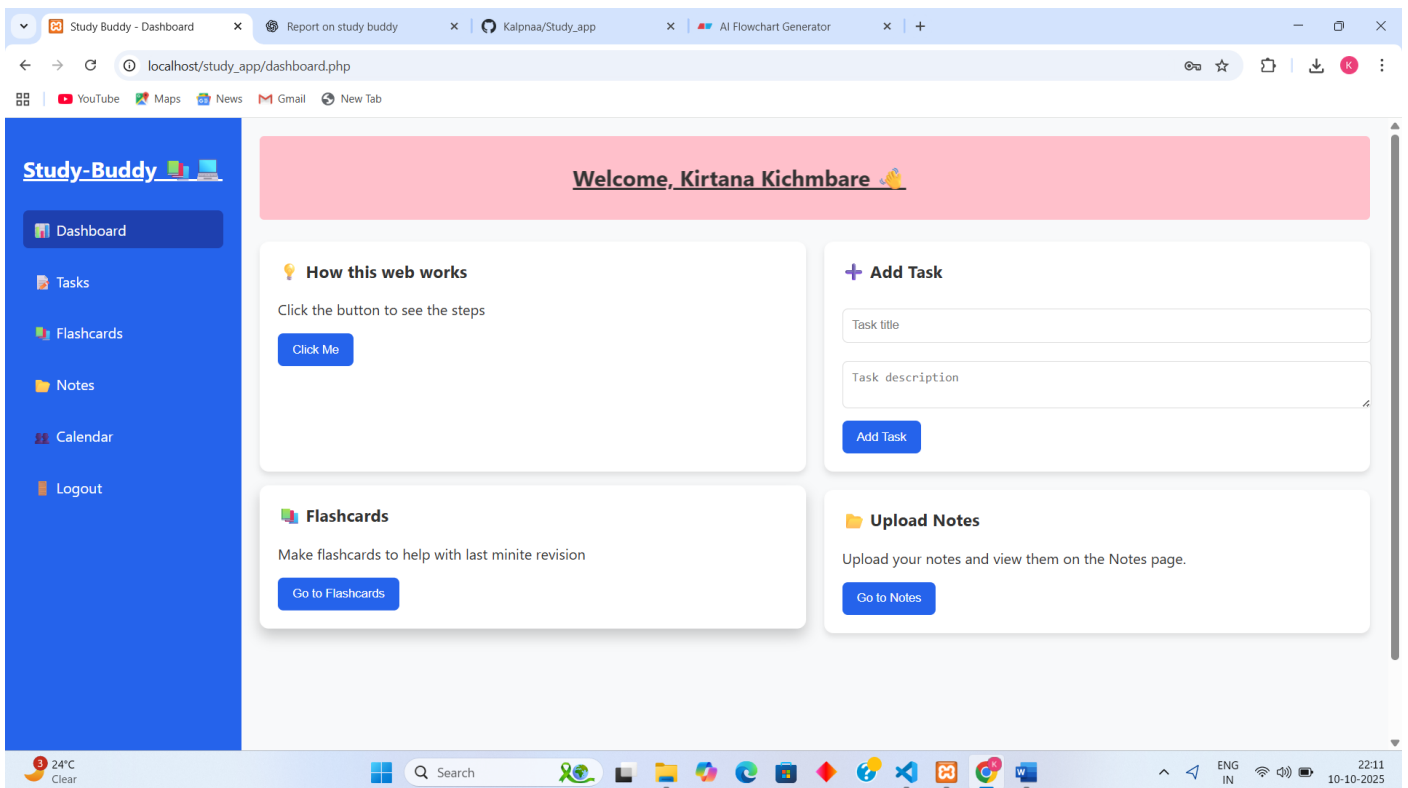
- Home Page



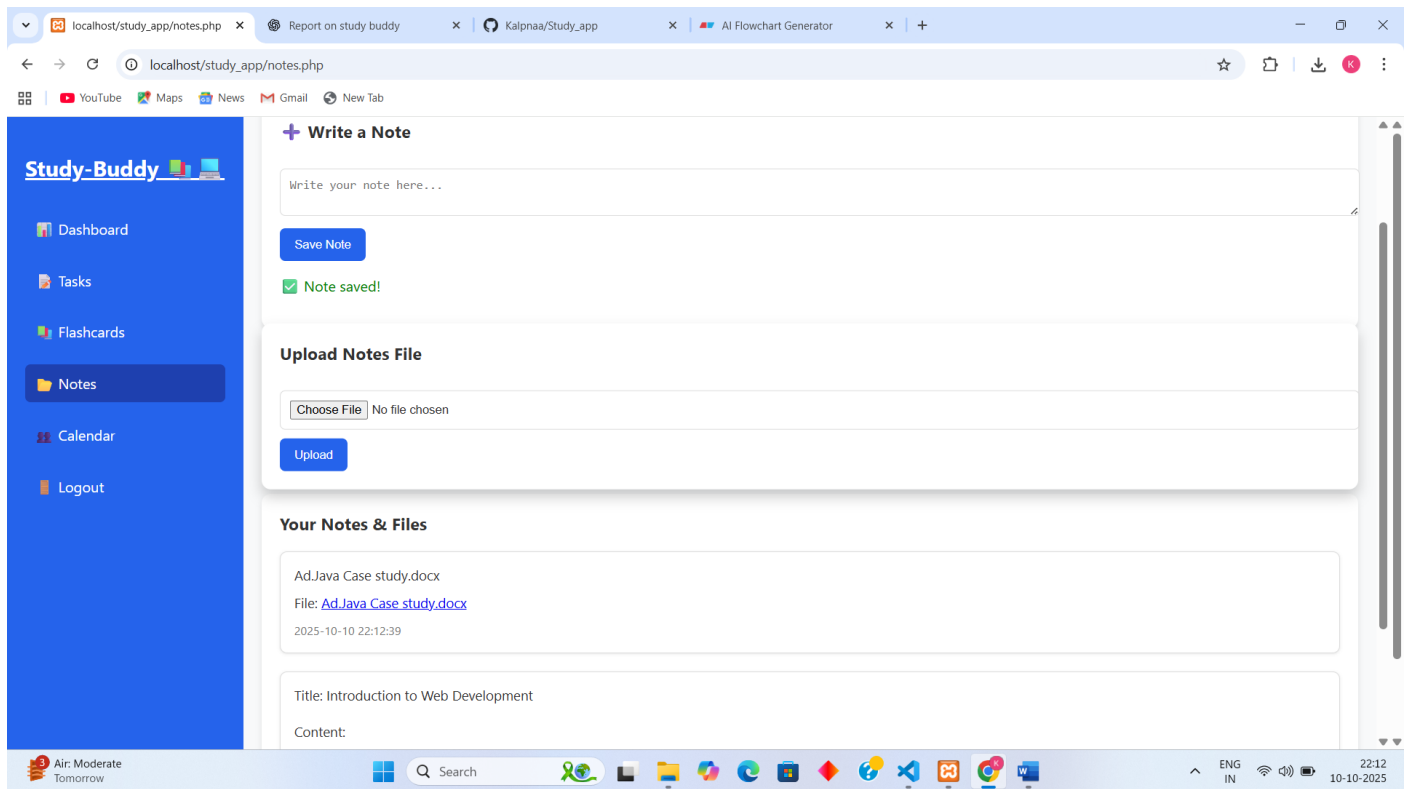
- Login / signup page



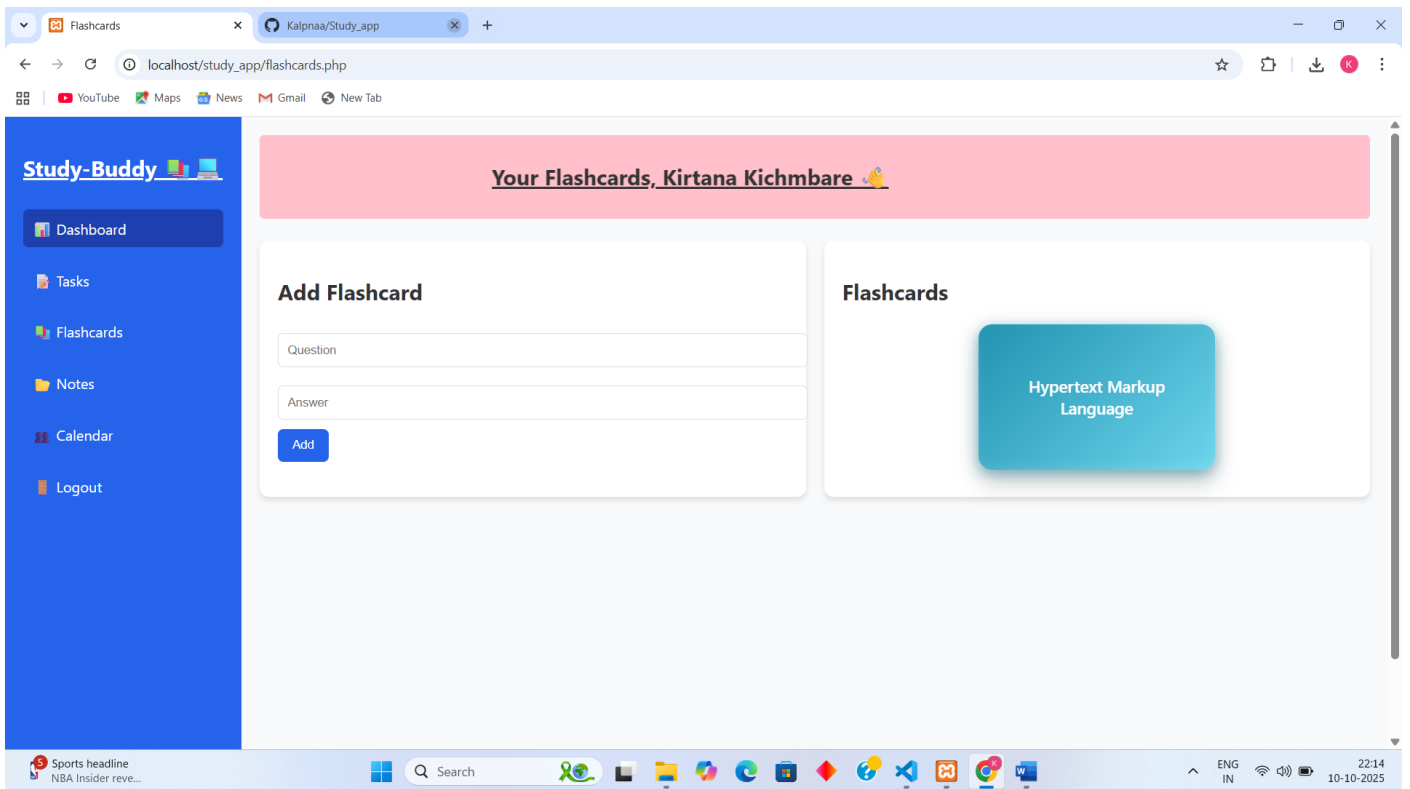
- Dashboard



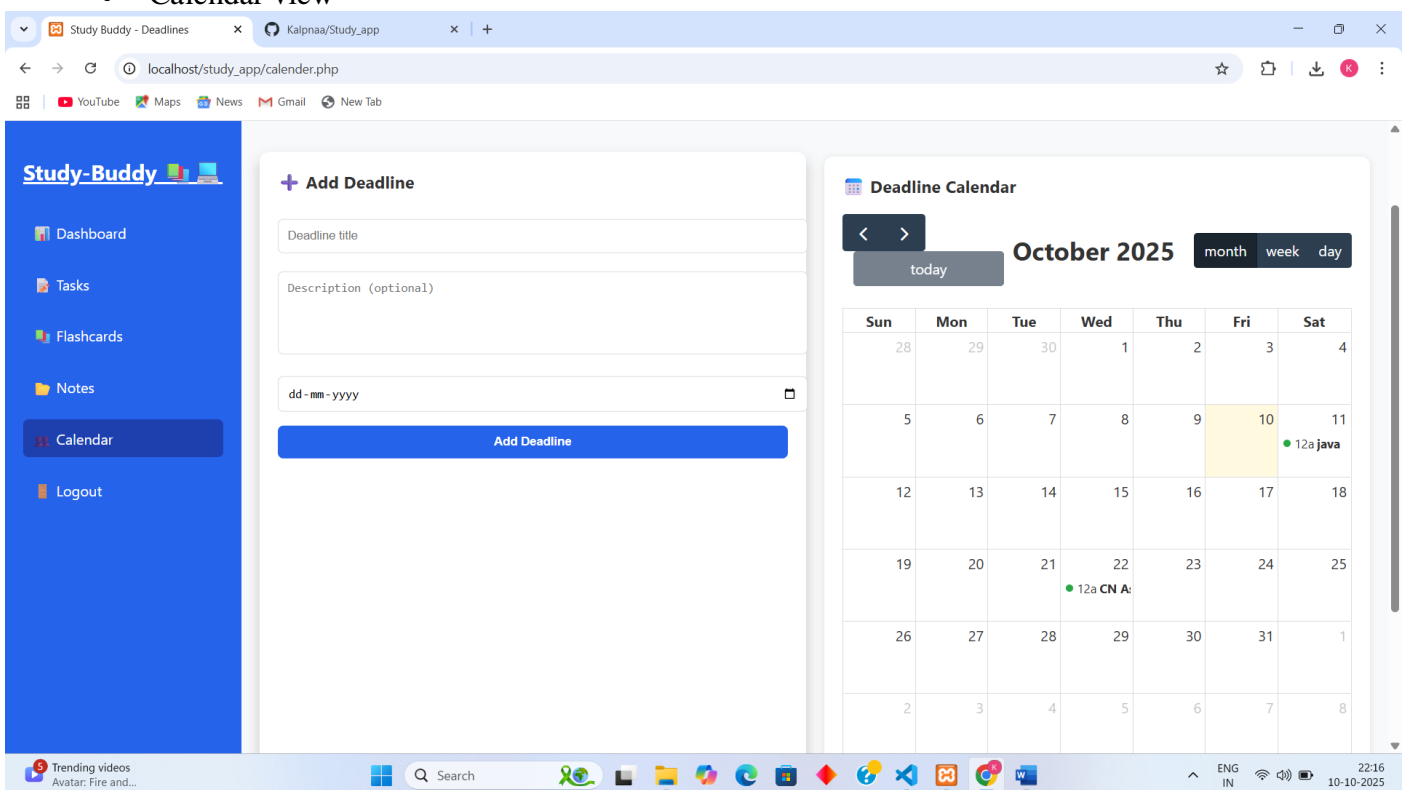
- Notes interface



- Flashcards



- Calendar view



Upcoming Deadlines This Week

java - 10/11/2025

- Task sidebar

Study Buddy - Tasks

Kalpnaa/Study_app

localhost/study_app/sidebar_tasks.php#

YouTubeMapsNewsGmailNew Tab

Study-Buddy

Dashboard

Tasks

Flashcards

Notes

Calendar

Logout

Your Tasks, Kirtana Kichmbare

All Tasks

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

25

min 24:59PauseMark Complete

+ Add Task

Java ppt

make ppt on any topic and uplod it on drive

Add Task

Task added successfully!

24°C Clear

Search

ENG IN

22:18 10-10-2025