



# StudyMate

Collaborative Learning Platform for Students



# Meet the Team Behind StudyMate



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# The Challenge: Fragmented Student Collaboration

## What Problems Are We Solving?

- Study materials are scattered across various messengers and cloud drives, making them hard to find and manage.
- Students struggle to find compatible project partners with matching skills or availability.
- There's no single, integrated platform for managing materials, coordinating projects, and facilitating collaboration.



## Why Is This Important?

These issues significantly impact:

- University students working on academic projects requiring teamwork.
- Students enrolled in project-based courses.
- Individuals preparing for exams and study sessions.



# StudyMate: Our Vision and Scope

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## Main Goal

To create a **unified web platform** where students can efficiently manage study materials, easily find project partners, and collaborate seamlessly.

2

## MVP Scope: Key Features

- User registration and secure login process.
- Personalised student profiles.
- Upload and comprehensive search functionality for study materials.
- Project creation and joining capabilities.
- Basic chatbot assistant for guidance.



# Understanding Our Users: Needs and Requirements

## Target Users

- Undergraduate and postgraduate university students.
- Small academic project teams across various disciplines.



## Main User Needs (User Stories)

### → Access Dashboard

As a student, I want to register and log in to access my personalised dashboard.

### → Upload Materials

As a student, I want to upload materials to store my notes and resources securely.

### → Find Projects

As a student, I want to search for projects and easily join a team.

### → Chatbot Guidance

As a student, I want to use a chatbot for quick guidance and support.

# Project Development Timeline

Our structured approach to bringing StudyMate to life.

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## Idea & Problem Analysis

Initial brainstorming and thorough analysis of student collaboration challenges.

03

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## Database Design

Designing a robust and scalable database architecture for all StudyMate data.

05

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## Frontend Pages

Crafting user-friendly interfaces with HTML5 and Tailwind CSS.

02

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## PRD and User Stories Creation

Development of the Product Requirements Document and detailed user stories.

04

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## Backend Development

Implementation of the backend logic using PHP and MySQL.

06

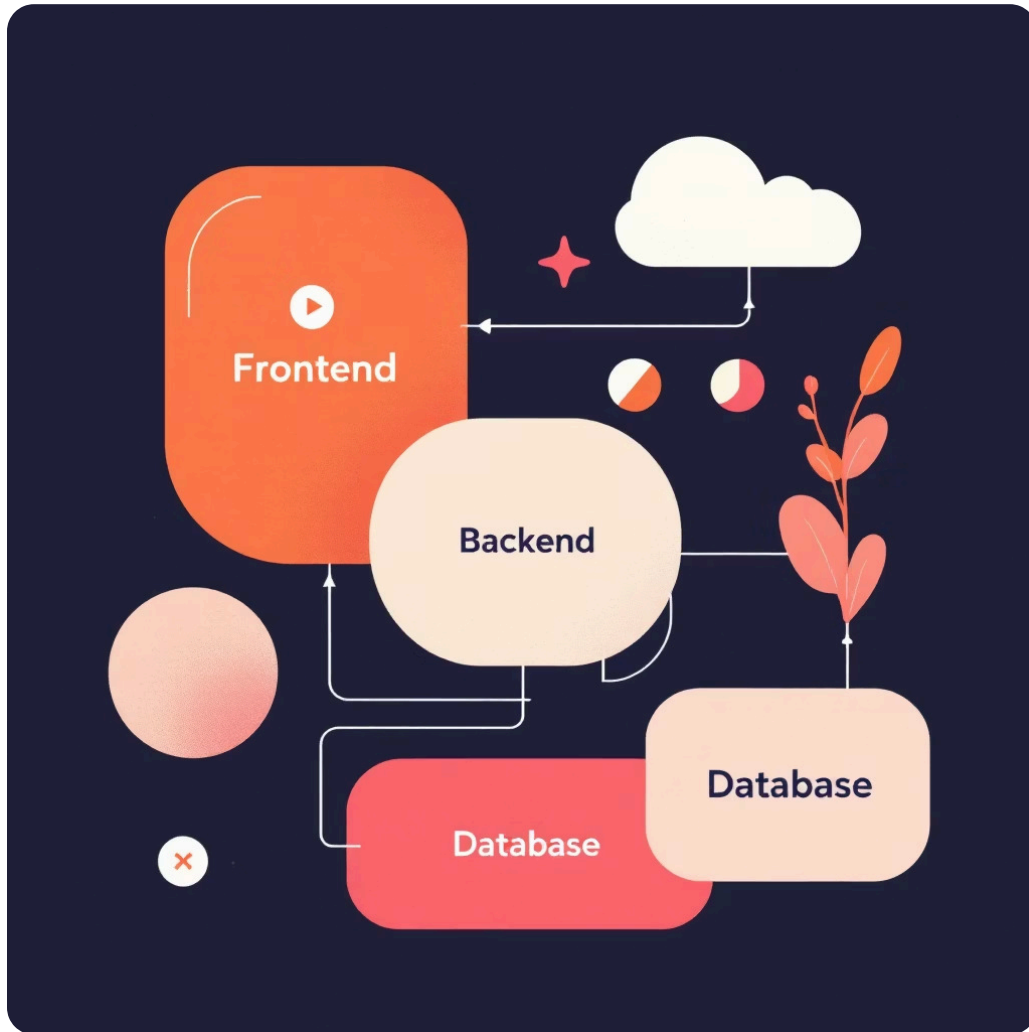
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## MVP Integration & Testing

Bringing all components together for comprehensive testing and refinement.

# StudyMate MVP: System Architecture

An overview of the technologies and components driving our platform.



## Main Components

Authentication Module



Materials Management



Projects & Teams System



Chatbot Module

## Core Technologies

- **Frontend:** HTML5, Tailwind CSS, JavaScript for responsive and modern interfaces.
- **Backend:** PHP 8 as a monolithic application for robust server-side logic.
- **Database:** MySQL 8 for efficient data storage and retrieval.

# Implemented Features in the MVP

Our initial build delivers essential functionalities for a collaborative learning experience.

## User Authentication

Secure user registration with hashed passwords, streamlined login, and session management for continuous access.

## Material Management

Functionality for uploading and storing diverse study materials, organised for easy access.

## Project Collaboration

Dynamic project listing and an intuitive system for students to join relevant teams.

## Chatbot Assistance

A simple, rule-based chatbot designed to answer basic navigation and platform-related queries.

## Personal Dashboard

A personalised user dashboard providing an overview of materials, projects, and activities.



# User Feedback & Validation

Gathering insights to refine StudyMate and ensure user satisfaction.

## How Feedback Was Collected

- A formal demo presentation to classmates provided initial reactions and suggestions.
- Informal interviews with a diverse group of students helped uncover specific pain points and desires.
- Direct observations during testing sessions offered insights into user behaviour and interaction with the platform.

## Key Findings

"Having all my study materials in one place is incredibly convenient!"

"The project search feature is a game-changer for finding team members."

"The chatbot was surprisingly helpful for basic navigation questions."



# Conclusion: The Future of StudyMate

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## Addressing Core Problems

StudyMate effectively addresses real-world student collaboration and material management challenges.

2

## Robust MVP

Our Minimum Viable Product successfully demonstrates the core functionality and potential of the platform.

3

## Ready for Expansion

The platform is well-positioned for future improvements, including advanced AI chatbot features and a dedicated mobile application.

Thank you for your time!

