



**School of Computer Science and Engineering  
Department of Computer Science and Engineering**

# **STUDYFLOW**

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# Outline

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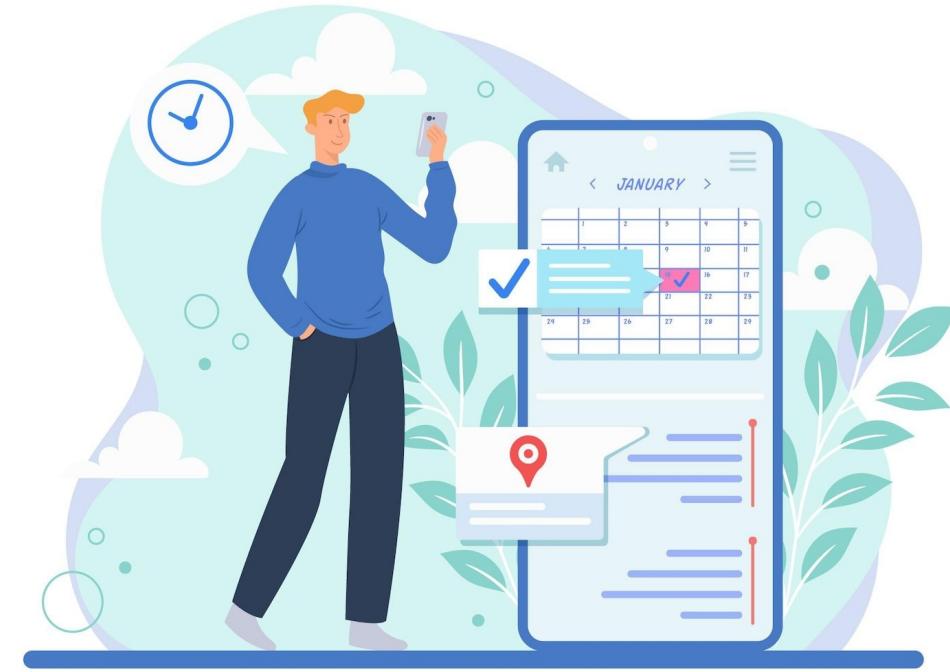
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# Introduction to StudyFlow

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- The aim of StudyFlow is to be an assistant for your studies.
- StudyFlow is a cross-platform hub for you to keep track of your Classes, Attendance, Assignments, Quizzes, Mid-Terms, End-Terms, Self-Study sessions, etc. all in one place, without the need to navigate through multiple apps and websites!



# Literature Review: The "Do-it-All" Giants

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## Notion

**Pros:** Infinitely flexible, powerful databases.

**Cons:** Steep learning curve, "blank canvas" is intimidating, lacks structured academic features.



## Todoist

**Pros:** Excellent for task management, great reminders.

**Cons:** Not designed for academic schedules, poor file management, no attendance tracking.



## Google Calendar

**Pros:** Excellent for time-blocking and class schedules.

**Cons:** Weak task management, no native support for assignments or progress tracking.

# Literature Review: Niche Student Apps

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## My Study Life

**Pros:** Purpose-built for students, tracks classes, tasks.

**Cons:** Clunky UI, limited data synchronization, no file attachments.



## Power Planner

**Pros:** Good Windows integration, grade calculation.

**Cons:** Cross-platform experience is inconsistent, limited feature set.



## Chipper / Forest

**Pros:** Motivates study sessions, simple to use.

**Cons:** A feature, not a complete solution. Does not manage assignments or schedules.

# Literature Review: Conclusion

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- There are dozens of apps and programs that offer parts of what StudyFlow can. However, they can perform only one or two of the things that StudyFlow can.
- Having multiple apps is quite time-consuming and confusing.
- There is a huge need for Organizational Inefficiency & Compromised Focus.



# Problem Statement

- A one stop-shop is needed to make our lives easier and better, and StudyFlow provides that!
- The current lack of an integrated cross-platform application forces students to use fragmented tools for scheduling, tasks, and study sessions, resulting in organizational inefficiency and compromised focus.
- Core Vision: StudyFlow is the student's central hub for organization, time management, and focused study execution.



# Objectives

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- To implement an integrated task and time management system linked to scheduled study routines and class time tables.
- To improve student focus and accountability using specialized, task-linked study timers and visual performance analytics.
- To create an intuitive and engaging user interface (UI/UX) that minimizes friction in managing complex academic schedules.
- To design and develop a unified mobile/web application that consolidates all student organizational tools.

# Proposed Methodology

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## Key Integrated Features:

- Track Tasks: Manage assignments, tasks, and quizzes, sortable by subject.
- Manage Schedules: View a comprehensive routine of classes, self-study sessions, mid-terms, and end-terms.
- Monitor Attendance
- Notifications & Reminders: Automated alerts for upcoming deadlines, classes, exams, etc.
- Store Files: Attach relevant files (notes, PDFs, submissions) directly to assignments, tasks, or subjects.
- Boost Focus with built-in Focus Timers for studies
- Leverage AI: Use advanced AI tools to generate Self-Study Routines and Summarize Notes (planned for later phases).
- Cross-Platform Syncing of Data

# Proposed Methodology

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- Requirement Analysis: Gather detailed requirements from the syllabus, study user preferences, and set success criteria.
- System Design: Define a modular architecture: Authentication, Task Engine, Scheduler, Focus Timer, Analytics, and Sync.
- Implementation: (1) Tasks & Timetable, (2) Focus Timer & File Attachments, (3) Notifications & Sync.
- Evaluation & Testing: Usability testing, performance profiling and bug tracking, metric-driven improvements.
- Deployment & Iteration: CI/CD pipeline, beta release, collect feedback, iterate and fully release the app.



# Proposed Methodology

## Phase 1

### Feature Analysis & Core Requirements

- Figure out the essential elements and features needed for the project based on user needs in the market.
- Decide on the core technologies to be utilised, so the target may be achieved efficiently.
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## Phase 2

### Core Feature Development

- Develop Class Schedule & Timetable module
- Implement Task & Assignment Tracker (sortable by subject)
- Build Attendance Monitoring system
- Implement File Attachment system
- Analytics Dashboard
- Basic functional Website

# Proposed Methodology

## Phase 3

### **Advanced Features & Web Development**

- Focus Timer Module
- Notifications & Reminders: Automated alerts for upcoming deadlines, classes, exams, etc.
- Cross-Platform Syncing
- Completing the development of the web version.

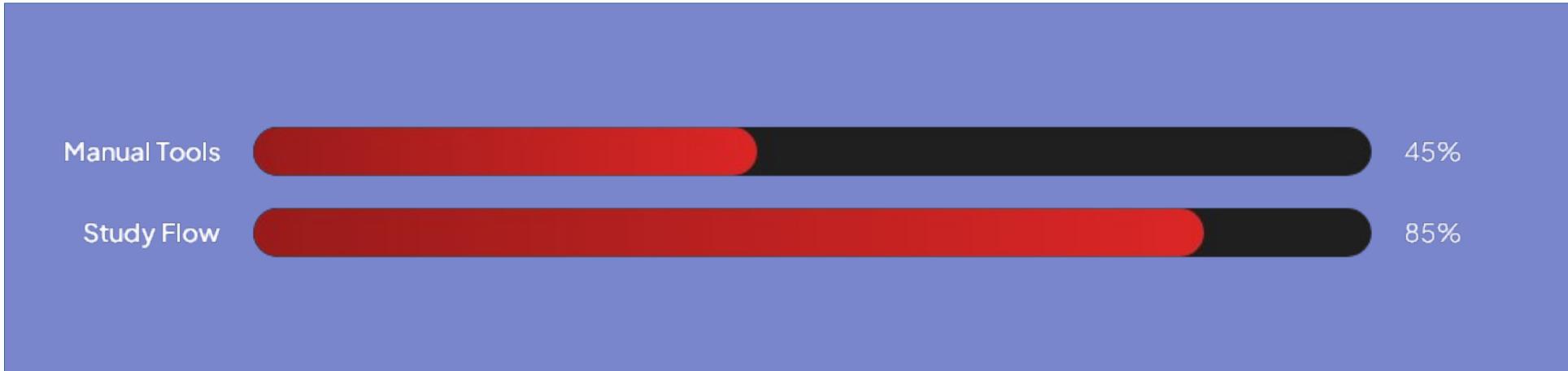
## Phase 4

### **AI Features & Mobile Development**

- AI Note Summarizer: Integrate LLM-based API to summarize uploaded notes/PDFs
- AI Study Routine Generator: AI suggests personalized study schedules based on upcoming deadlines and past performance
- Developing a Mobile application either through ReactNative or Kotlin

# Results

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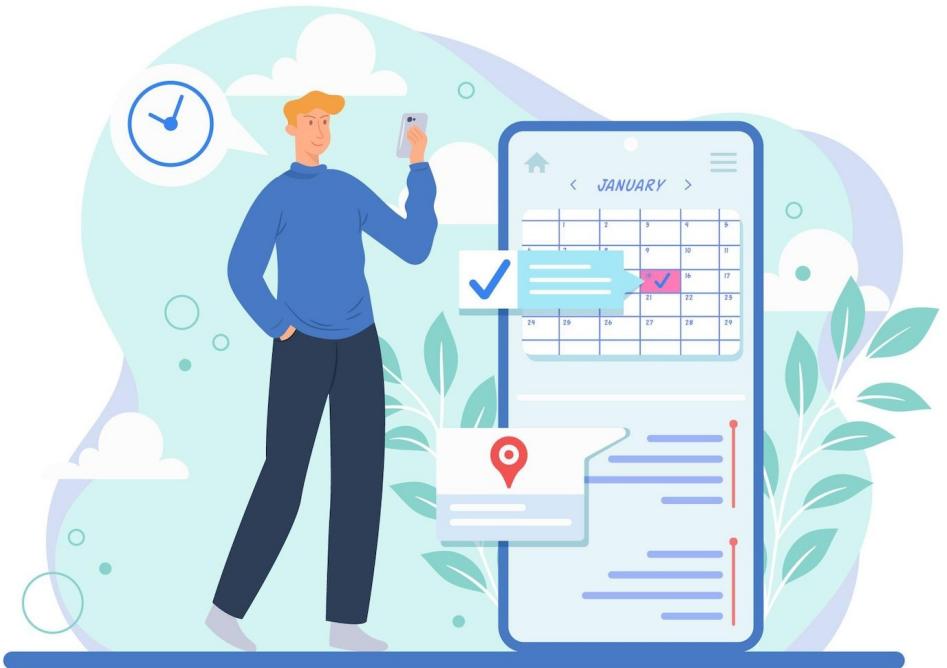


Beta testing showed a significant increase in deadline compliance compared to manual tracking. The "Reminders" and "Dashboard" features successfully alerted users when their assignments and classes were due.

# Outcome

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- Completed Outcome: Core functionality achieved on the web portal.
- Future Outcomes:
  1. Deployment finished Website
  2. Mobile Application development & deployment



# References

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- Investigating the Effectiveness of Pomodoro, Flowtime, and Self-regulated Breaks on Study Sessions — E.J.C. Smits (preprint / PMC summary; 2025). Link: <https://www.preprints.org/manuscript/202503.0845>
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THANK YOU!