

Project Definition Document - StudyPilot



Team Members:

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Document-Specific Task Matrix

Task	Team Member Responsible
Project name and summary	Nehir Tıraş, Nehir Aydın
Preparing the Objectives and Scope sections	Alvin Dora Akıncı
Defining the target audience and key features	Emin Arslan, Nehir Tıraş
Planning deliverables and budget	Cevdet Onat Cerit
Conducting risk analysis and developing mitigation strategies	Nehir Aydın, Cevdet Onat Cerit, Alvin Dora Akıncı
Defining success criteria	Emin Arslan
Reviewing and editing the document	Cevdet Onat Cerit, Alvin Dora Akıncı, Emin Arslan, Nehir Tıraş, Nehir Aydın

Project Summary

StudyPilot is an intelligent productivity application designed for students to plan and manage their courses, assignments, and exams efficiently. The website prioritizes tasks, enhances focus through a built-in Pomodoro timer, and integrates Spotify and weather APIs to create a personalized and motivating study environment. Through data-driven insights and progress tracking, users can monitor their performance and maintain consistent productivity.

Objectives

1. Develop a system that allows students to organize and prioritize their academic tasks.
 2. Increase focus and productivity using an integrated Pomodoro timer.
 3. Provide a personalized study atmosphere through Spotify and weather integrations.
 4. Enable users to track their daily, weekly, and monthly progress through analytics.
 5. Offer a modern, intuitive, and easy-to-use interface for all users.
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Scope

Included in Scope

- Course, assignment, and exam management.
- Task prioritization.
- Pomodoro timer with customizable sessions.
- Spotify integration.
- Weather-based study recommendations.
- Progress tracking and analytics dashboard.

Out of Scope

- Multi-user or collaborative task sharing.
 - Offline synchronization across devices.
 - Integration with third-party academic management systems (e.g., LMS platforms).
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Target Audience

- Students managing multiple academic responsibilities.
 - Exam preparation candidates seeking structured study plans.
 - Learners who want to combine productivity tools with personalized motivation.
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Key Features

1. **Task Management:** Add, edit, delete, and categorize academic tasks by type (course, assignment, exam).
 2. **Prioritization:** Automatically orders tasks based on deadlines and workload.
 3. **Pomodoro Timer:** Built-in focus sessions with adjustable durations and short breaks.
 4. **Spotify Integration:** Plays curated playlists to enhance focus and relaxation.
 5. **Weather Integration:** Displays local weather and suggests optimal study conditions.
 6. **Analytics Dashboard:** Tracks completed tasks, focus time, and progress trends.
 7. **Notifications & Reminders:** Alerts for upcoming deadlines and study sessions.
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Deliverables

- Task prioritization algorithm.
 - Integrated Pomodoro timer.
 - Spotify and weather API integrations.
 - Data analytics and visualization module.
 - Testing documentation and usability reports.
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Budget and Resources

Required Resources

- Software development tools (HTML, CSS, JavaScript, Python, Spotify Web API, OpenWeatherMap API, Git, Github).
- User research and testing processes.

Budget

- Server and data storage costs.
 - Funding for user testing.
 - Software licenses and tools for the development team.
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Risks and Mitigation Strategies

Risk	Mitigation Strategy
Difficulty integrating multiple APIs (Spotify, Weather)	Conduct early testing and maintain modular API service structure.
Low user engagement after initial launch	Implement gamification elements and progress-based rewards.
Inaccurate task prioritization	Collect user feedback to improve the weighting algorithm.
Project delays due to workload	Create internal milestones and weekly review meetings.

Project Success Criteria

1. At least 80% of users find the app easy to use and intuitive.
2. The app fully implements and integrates core features.
3. Users experience at least a 25% increase in completed study tasks within the first month.
4. The analytics panel accurately visualizes user progress and performance.