

AI STUDY PLANNER

Hackathon Project Phases Template that ensures students can complete it efficiently while covering all six phases. The template is structured to capture essential information without being time-consuming.

Project Title : STUDBUD : AI STUDY PLANNER

Team Name: Study Bot

Team Members: Kavade Thanooj kumar
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Phase-1: Brainstorming & Ideation

Objective:

- Define the problem, research existing solutions, and propose an innovative AI-powered study planner.

Key Points:

1. Problem Statement:

Students struggle with managing study schedules effectively, leading to poor time management, lack of motivation, and inefficient learning.

2. Proposed Solution:

- Develop an AI-powered study planner that offers personalized study plans, automated reminders, and collaboration features for students to stay on track.

3. Target Users

- High school & college students
- Competitive exam aspirants
- Working professionals taking online courses

4. Expected Outcome:

A clear problem definition and a validated concept with preliminary user feedback.

Phase-2: Requirement Analysis

Objective: Identify technical and functional requirements necessary to build the system.

- **Key Points:**
- **Technical Requirements:**
 - AI model for personalized study plans
 - Cloud storage for user data
 - Notification system for reminders
 - Web & mobile-friendly interface
- **Functional Requirements:**
 - User registration & authentication
 - Study plan generation
 - Task reminders & notifications
 - Collaboration (team-based study sessions)

Phase-3: Project Design

Objective: Define system architecture, user flow, and UI/UX components.

Key Points:

- ☐ **Frontend:** Streamlit
- ☐ **Backend:** Python
- ☐ **Database:** Firebase
- ☐ **AI Model:** Gemini ,Api Key Twilio

❖ **User Flow:**

- User logs in/signs up
- Inputs study goals & availability
- AI generates a personalized study plan
- User receives reminders & progress updates

❖ **UI/UX Considerations:**

- Intuitive dashboard
- Progress tracking visualization
- Simple task completion interface

Phase-4: Project Planning (Agile Methodologies)

Objective: Break the project into sprints and allocate tasks efficiently.

Sprint Planning:

- **Sprint 1:** Backend & AI model setup
- **Sprint 2:** UI design & user authentication
- **Sprint 3:** Study plan algorithm implementation
- **Sprint 4:** Notifications & collaboration features
- **Sprint 5:** Testing & final refinements

◆ **Task Allocation:**

- **AI model :**K.Thanooj kumar
- **Frontend:** B.Ramesh
- **Backend:** K.Mounika
- **UI/UX Design:** U.Nandini

Phase-5: Project Development.

- **Objective:** Code the project and integrate components.

Key Points:

1. **Technology Stack Used:** Python, Gemini API, Streamlit,
2. **Development Process:**
 - ☐ Setup development environment
 - ☐ Implement core features (study plans, reminders)
 - ☐ Integrate AI model for personalized recommendations
 - ☐ Add collaboration tools for team study sessions
3. **Challenges & Fixes:**
 - ☐ AI personalization accuracy
 - ☐ Ensuring seamless cross-device synchronization
 - ☐ Optimizing notification system to avoid spam

Phase-6: Functional & Performance Testing

Objective : Test the project for bugs, performance, and usability issues before final submission.

Key Points:

1. **Test Cases Executed:**
 - ☐ User sign-up & authentication
 - ☐ Study plan generation accuracy
 - ☐ Reminder system notifications
 - ☐ Collaboration feature functionality
2. **Bug Fixes & Improvements:**
 - ☐ Fixed incorrect time zone handling for reminders
 - ☐ Optimized AI model for better study recommendations
 - ☐ Improved UI responsiveness on mobile devices

3. **Final Validation:**

- ☐ Does the study planner generate effective schedules?
- ☐ Are reminders sent on time?
- ☐ Is the collaboration feature seamless?

Deployment :

- Hosting: Firebase
- NetworkURL: <https://172.16.0.123:8501>
- LocalURL: localhost:8501

Final Submission:

Link: github.com/Nandini20122004/newrepo