Hackathon Project Phases

# Project Title:

StudBud: Study planner ai

# Team Name:

TEAM RISERS

# Team Members:

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**Project Report: Study Planner Chatbot**

**1. Introduction** :

The Study Planner Chatbot is an AI-powered web application designed to generate personalized study plans based on user preferences. This chatbot, built using **Streamlit** and **Gemini AI**, takes inputs such as study time, learning goals, preferred materials, and learning pace to create a structured study plan.

**2. Project Objectives**

* Develop an interactive study planner using AI.
* Allow users to customize their study plan based on their requirements.
* Integrate **Google Gemini AI** for generating dynamic study plans.
* Deploy a user-friendly web interface using **Streamlit**.

**3. Technologies Used**

* **Python**: Main programming language.
* **Streamlit**: Used for building the web-based UI.
* **Google Gemini AI**: For generating study plans.
* **GitHub**: Version control and repository hosting.
* **dotenv**: Used for securing API keys.

**4. System Requirements**

* **Software**: Python 3.x, Streamlit, Google Generative AI SDK, Git.
* **Libraries**: streamlit, google.generativeai, dotenv, os.
* **API Key**: Google Gemini AI API key (stored in .env).

**5. Implementation**

* **User Interface**: Built with Streamlit, allowing users to enter details such as:
  + Study time per week
  + Study goal (Semester, Interview, Competitive Exams)
  + Preferred learning materials (Videos, Articles, Books)
  + Learning pace (Slow, Moderate, Difficult)
  + Specific topics (e.g., Generative AI, Data Science)
* **Backend Processing**:
  + Fetches user inputs.
  + Formats the input into a prompt.
  + Sends the prompt to **Google Gemini AI**.
  + Displays the generated study plan.

**6. Code Implementation** The following is a simplified code snippet for the chatbot:

from dotenv import load\_dotenv  
import streamlit as st  
import os  
import google.generativeai as genai  
  
# Load API Key  
load\_dotenv()  
API\_KEY = os.getenv("GEMINI\_API\_KEY")  
  
genai.configure(api\_key=API\_KEY)  
gemini = genai.GenerativeModel("gemini-pro")  
  
# Streamlit UI  
st.title("📚 Study Planner Chatbot")  
st.write("Get a personalized study plan based on your preferences!")  
  
# User Inputs  
study\_time = st.slider("How many hours per week can you study?", 1, 40, 10)  
study\_goal = st.selectbox("What is your study goal?", ["Semester Prep", "Interview", "Competitive Exams"])  
learning\_materials = st.multiselect("Preferred Learning Materials:", ["Videos", "Articles", "Books", "All"])  
learning\_pace = st.selectbox("Learning Pace:", ["Slow", "Moderate", "Difficult"])  
specific\_topics = st.text\_input("Enter specific topics (e.g., Generative AI, Data Science, etc.)")  
  
if st.button("Generate Study Plan"):  
 prompt = f"""  
 Create a study plan based on the following user preferences:  
 - Study Time: {study\_time} hours per week  
 - Study Goal: {study\_goal}  
 - Preferred Learning Materials: {', '.join(learning\_materials) if learning\_materials else 'Any'}  
 - Learning Pace: {learning\_pace}  
 - Specific Topics: {specific\_topics if specific\_topics else 'General Study Plan'}  
 Provide a detailed and structured study plan.  
 """  
 response = gemini.generate\_content(prompt)  
 if response:  
 st.subheader("Your Personalized Study Plan:")  
 st.write(response.text)  
 else:  
 st.error("Failed to generate a study plan. Please try again.")

**7. Deployment Process**

* Run the application using Streamlit: streamlit run app.py
* Deploy on GitHub and push changes using: git add .  
  git commit -m "Initial commit"  
  git push origin main

**8. Challenges Faced**

* **API Integration Issues**: Ensuring the API key was correctly loaded from the .env file.
* **GitHub Version Control**: Solving issues related to remote repository conflicts.
* **Streamlit UI Optimization**: Making the UI responsive and interactive.

**9. Future Enhancements**

* Add **User Authentication** for saving study plans.
* Implement **Progress Tracking** for better study management.
* Integrate **Calendar Scheduling** to automatically set study reminders.

**10. Conclusion** The Study Planner Chatbot is a powerful tool for students and professionals to efficiently plan their studies. By leveraging **Google Gemini AI** and **Streamlit**, the project successfully delivers personalized study plans in a simple, user-friendly manner.

✅ **Project Completed Successfully!** 🚀

# Final Submission

1. **Demo Video (3-5 Minutes)**
2. **https://github.com/priyathamcode/studyplan.git**
3. **Presentation**

# Final Submission

1. [**https://1drv.ms/w/c/248199a9e7019b1e/EYNh6oamphFIj0iziWecZbEBFBYEmGcKOpfQAO3LGLNkPw?e=Z4DB4X**](https://1drv.ms/w/c/248199a9e7019b1e/EYNh6oamphFIj0iziWecZbEBFBYEmGcKOpfQAO3LGLNkPw?e=Z4DB4X)
2. **Demo Video (3-5 Minutes)**
3. [**https://github.com/AdharshKokkula/JobShift-By-LYNX.git**](https://github.com/AdharshKokkula/JobShift-By-LYNX.git)
4. **Presentation**