# **Austin Ai Alliance Chatbot Project**

## **1. Project Overview**

* **Project Name:** Austin Ai Alliance Chatbot
* **Description:**The Austin Ai Alliance Chatbot is designed to add value for customers by connecting members based on their skills and interests. It serves as a centralized platform to share information on events, meetings, updates, available projects, projects looking for members, committees, and internal communications.

## **2. Project Goals & Value Proposition**

### **Primary Goals:**

* **Connect Members:**Enable users to find and connect with other members who have complementary skills or are seeking similar expertise.
* **Information Hub:**Provide real-time information on upcoming events, meetings, project updates, and committee opportunities.
* **Enhanced Collaboration:**Support internal communications and facilitate networking through automated suggestions and updates.

### **Value to Customers:**

* **Networking Efficiency:**Streamline the process of finding the right people or projects by matching skills and interests.
* **Up-to-Date Information:**Keep members informed with the latest events, meetings, and project opportunities.
* **Community Engagement:**Foster a more connected community by integrating various communication channels into a single chatbot interface.

## **3. Team Structure & Current Assignments**

### **Current Team Members:**

* **Jessica Pena – Project Manager**Oversees overall project management, scheduling, and stakeholder communications.
* **Jonny Johnson – AI Engineer / Artechtech**Leads the AI components of the project, focusing on core functionalities and architecture.
* **Sai S – AI Engineer / Front-End Specialist**Focuses on integrating AI capabilities into the user interface and front-end development.
* **Ganesh Gain – AI Engineer**Develops and refines AI models, and supports backend integration.
* **Adetutu Daranijo – AI Engineer**Assists with AI model training, testing, and deployment.

## **4. Required Skills & Additional Roles**

### **Essential Skills Needed:**

* **Python Development:**Expertise in Python for backend development and AI model integration.
* **AI Engineering:**Proficiency in developing, training, and deploying machine learning and NLP models.
* **Front-End Engineering:**Experience with modern frameworks (e.g., Next.js) to create intuitive and responsive user interfaces.
* **Back-End Engineering:**Ability to develop robust server-side applications, manage APIs, and integrate with cloud platforms.
* **Project Management:**Skilled in coordinating teams, managing timelines, and ensuring effective communication among stakeholders.

### **Positions to Fill (if needed):**

* Additional **Python Developers** to support backend enhancements.
* Additional **Front-End Engineers** to expand the user interface capabilities.
* Additional **Back-End Engineers** to ensure scalable and secure server-side operations.
* Additional **Project Managers** to support larger-scale coordination as the project grows.

## **5. Technology Stack**

* **Programming Language:** Python
* **Containerization:** Docker
* **Cloud Platform:** AWS
* **Front-End Framework:** Next.js
* **AI & Language Processing:** Langchain
* **Vector Database:** Milvus

## **6. Project Milestones & Timeline (Sample)**

* **Milestone 1: Project Kick-off & Requirements Gathering**
  + Finalize project objectives and requirements.
  + **Target Date:** [Insert Date]
* **Milestone 2: System Architecture & Tech Stack Setup**
  + Set up development environments, containerization (Docker), and initial AWS configurations.
  + **Target Date:** [Insert Date]
* **Milestone 3: Development Phase**
  + Develop core chatbot functionalities, integrate AI models, and design the front-end interface.
  + **Target Date:** [Insert Date]
* **Milestone 4: Testing & Quality Assurance**
  + Conduct comprehensive testing (unit, integration, user acceptance).
  + **Target Date:** [Insert Date]
* **Milestone 5: Deployment & Launch**
  + Deploy the chatbot, monitor initial performance, and gather user feedback for future iterations.
  + **Target Date:** [Insert Date]

## **7. Communication & Collaboration**

* **Regular Meetings:**Schedule weekly check-ins to discuss progress, challenges, and next steps.
* **Tools for Communication:**
  + **Slack/Teams:** For daily communication.
  + **Email:** For formal updates and documentation.
  + **Project Management Tools:** (e.g., Trello, Asana, or Jira) to track tasks and milestones.
* **Documentation:**Maintain a centralized repository (e.g., Confluence, Google Drive) for all project-related documents and updates.

## **8. Additional Notes / Comments**

* **Integration:**Ensure smooth integration between AI components and the user-facing front end.
* **Scalability:**Plan for scalability both in terms of technology and team structure as the project expands.
* **Feedback Loop:**Establish channels for continuous feedback from both team members and users to iterate and improve the chatbot.
* **Stakeholder Involvement:**Regularly update stakeholders on project progress and incorporate their input to align with organizational goals.