## **🗓 Week 1: Task Distribution (with Descriptions)**

| **Member** | **Type** | **Assigned Tasks** |
| --- | --- | --- |
| **Member 1** | Coding | 🧠 Set up the **backend environment** (Python, FastAPI, MongoDB, PostgreSQL)  🧪 Create basic project structure and sample FastAPI route. |
| **Member 2** | Coding | 🔗 Install and test **AI libraries** (OpenAI GPT, Rasa, Dialogflow SDK)  🧬 Try sample chatbot response generation and prepare demo logic. |

### **🧩 Non-Coding Member Tasks (with Description)**

| **Member** | **Type** | **Tasks & Description** |
| --- | --- | --- |
| **Member 3** | Non-Coding | 📚 **AI Chatbot Research**  Study and compare OpenAI GPT, Rasa, and Google Dialogflow. Understand how they work, what features they offer, and what are their limitations. Create a chart comparing:  • Response quality  • Ease of use  • Cost  • Integration flexibility |
| **Member 4** | Non-Coding | 🗺️ **System Architecture & Chat Flow Design**  Design a diagram showing how the chatbot works:  • User sends message → AI replies or routes to human  • Where backend, database, and frontend connect  • Tools and technologies used at each step.  Also, create a **simple flowchart** of how a user interacts with the bot (decision tree style). |
| **Member 5** | Non-Coding | 📄 **Roles, Responsibilities & Database Schema Planning**  Write a document assigning roles clearly to each member. Describe what each person will handle (front-end, AI, testing, deployment, etc.).  Also, create a **draft database design**, listing the collections/tables like:  • Users (name, email, password, role)  • Chats (user\_id, messages, timestamps)  • Bot Config (rules, client settings) |

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### **Targets to be achieved in week 1 :-**

### **✅ By the End of Week 1:**

* 🛠️ Backend and AI response logic initialized.
* 📚 AI platform research and selection ready.
* 🧱 Visual flow and architecture diagram completed.
* 📋 Roles and database schema draft prepared.

Let me know if you'd like this in a PDF, table format, or a project tracker like T