Rikkeisoft, with over 2,000 employees and more than 500 projects running on its management system, possesses a massive dataset that includes over 600 process and project-related documents in various formats, some of which may be in web format.

We are seeking a chatbot solution capable of answering daily inquiries from 2,000 employees.

### **System Requirements:**

* **User Types**: The system must support two types of users: Employees and Admins.
* **Authentication**: The system must include functionality for user registration, login, and logout.

#### **Employee Interface:**

* Employees should see a list of suggested questions upon accessing the chatbot.
* Employees can interact with the chatbot by asking questions.
* The chatbot should provide answers along with a reference link or document name used for generating the answer.
* Employees must be able to view their chat history.
* If employees ask questions or provide requests outside the scope of the documents supplied by Admin, the chatbot should politely decline to answer.
* The chatbot's responses should be based on the 10 most recent messages exchanged between the employee and the chatbot.

#### **Admin Interface:**

* Admins should be able to add or delete documents for the chatbot via file uploads (PDF, Excel, Doc) or web links.
* Admins must have the ability to update the system’s prompt configuration.

### **Technical Requirements**

* **Architecture**: The system should be built using a server-side architecture, separating the API and frontend.
* **Deployment**: The system must be deployed on AWS.
* **Code Management**: Source code must be stored in a GIT repository.
* **Security**: APIs must be secured and accessible only to authenticated users (employees and admins).
* **Performance**: The response time for each query must not exceed 4 seconds.
* **Streaming**: Chatbot responses must be streamed from the server to the frontend.