

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.