

## Objective:

Develop a Streamlit application that allows users to query documents to answer their questions. The application must securely store data in a database, provide a provision to add additional data, maintain user history, and allow users to download their chat history.

## Requirements:

### 1. Document Querying:

- The application should support querying documents in the following formats: .pdf, .docx, and .txt.
- Implement efficient search functionality to retrieve relevant information based on user queries.

### 2. Secure Database:

- Store the documents and user data securely in a database.
- Ensure that the database can be easily updated with additional documents.
- Use encryption and other security measures to protect the data.

### 3. User History:

- Maintain a record of user interactions, including queries and responses.
- Ensure that each user's history is accessible only to them and can be retrieved upon request.

### 4. Downloadable Chat History:

- Provide an option for users to download their chat history in a readable format (e.g., PDF or text file).

### 5. User Interface:

- Design a clean and user-friendly interface using Streamlit.
- Ensure the interface allows users to upload documents, query the documents, view their query history, and download their chat history.

## Deliverables:

### 1. Code Repository:

- Upload the complete project code to a version control system (e.g., GitHub).
- Include a detailed README file with instructions on how to set up, run, and use the application.

### 2. Documentation:

- Provide comprehensive documentation for the application, including:
  - System architecture and design.
  - Database schema.
  - Instructions for adding new documents.
  - Security measures implemented.

### 3. Hosted link:

- Give us a hosted link for your streamlit for us to test it out.

## **Evaluation Criteria:**

### **1. Functionality:**

- The application meets all specified requirements.
- The querying system accurately retrieves relevant information.

### **2. Security:**

- The data storage is secure and protected against unauthorized access.
- Proper measures are taken to ensure data integrity and confidentiality.

### **3. Usability:**

- The user interface is intuitive and easy to navigate.
- Users can effortlessly upload documents, perform queries, view their history, and download their chat history.

### **4. Code Quality:**

- The code is well-organized, readable, and follows best practices.
- The application is well-documented, and setup instructions are clear.

### **5. Innovation:**

- Additional features or improvements beyond the basic requirements will be considered positively.