**Development of an In-House Chatbot for Employee Assistance Using Natural Language Processing**

**Objective:**

Design and implement a chatbot system that functions as an internal tool for employees within a company. The chatbot should utilize advanced natural language processing techniques to understand and respond to user queries effectively.

**Key Features:**

1. **User Interaction Capability:** Develop a user-friendly interface that allows employees to interact with the chatbot. The chatbot should be able to comprehend and respond to a wide range of questions in natural language.
2. **Document-Based Query Resolution:** Integrate a feature where the chatbot can process documents given by users. The chatbot should analyze the content of these documents to provide contextually relevant answers.
3. **Source Referencing:** Ensure the chatbot is capable of referring back to specific sections or information in the source document when providing answers, enhancing the credibility and utility of its responses.
4. **Answer Accuracy Metric:** Implement a system to evaluate and display the accuracy or confidence level of the chatbot's responses. This feature should provide users with an indication of how reliable a particular answer is, based on the chatbot's understanding and analysis.
5. **Privacy and Security:** The chatbot must be designed with stringent security measures to ensure that all documents and interactions remain confidential and are not shared outside the company.
6. **Local Deployment:** Ensure that the chatbot system is used locally within the company's IT infrastructure, ensuring full control and data privacy.

**Tasks:**

* Research and select appropriate natural language processing techniques for the chatbot.
* Design the user interface and interaction flow for the chatbot.
* Develop the document processing and analysis module.
* Create the logic for referencing source documents in responses.
* Implement the accuracy assessment feature.
* Ensure loyalty to security and privacy standards.
* Test the chatbot within a controlled company environment.