



Chatbot for UniHR Platform



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Abstract

This report is for a cooperative education project focused on the development of a chatbot system for the UniHR, a human resource management platform. The goal of this project is to enhance user convenience by enabling access to information available within the platform, such as leave records, overtime data, and salary information. Users can access these details by querying the Chatbot, which emphasizes a modern, user-friendly interface (UI) for an improved user experience.

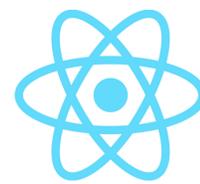
The Chatbot system has been developed using a large language model (LLM) named Typhoon, which enables accurate and flexible responses by understanding the context of user queries. The model is integrated through the LangChain library, which enhances LLM management by enabling greater customization of functionalities and efficient handling of information from multiple sources.

Introduction

Human resource management platforms often require users to navigate complex systems to access essential information like leave records, overtime data, and salary details. To simplify this process, this project develops an AI-powered chatbot for UniHR, enabling users to retrieve HR-related data through natural conversation.

The chatbot is built using Typhoon, a large language model (LLM) integrated with LangChain to enhance customization and efficient data handling. This approach improves accessibility, streamlines user interaction, and demonstrates the potential of AI in HR management.

Technology



ReactJS



Material UI



NodeJS



LangChain



TYPHOON

Typhoon LLM

Methodology

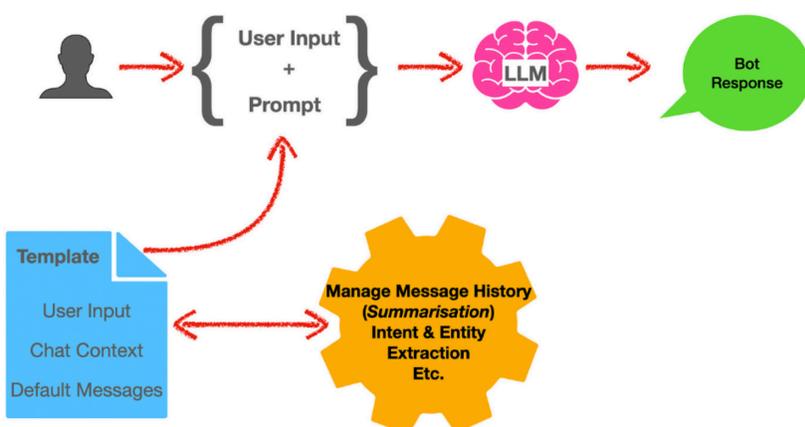


Get requirements and plan the projects

Design and develop

Validate and verify

Architecture



Conclusion

This project focused on developing an internal chatbot web application within the UniHR platform to significantly enhance user convenience. The chatbot was designed to allow users to query various functions—such as leave records, overtime data, salary information, and general company details—from a single interface without the need for extensive manual searches.

References

- AWS. (2024).What is LangChain?. Retrieved Oct 26, 2024
- SCB. (2024).Typhoon Large Language Model. Retrieved Oct 26, 2024