BOOK RECOMMENDATION CHATBOT

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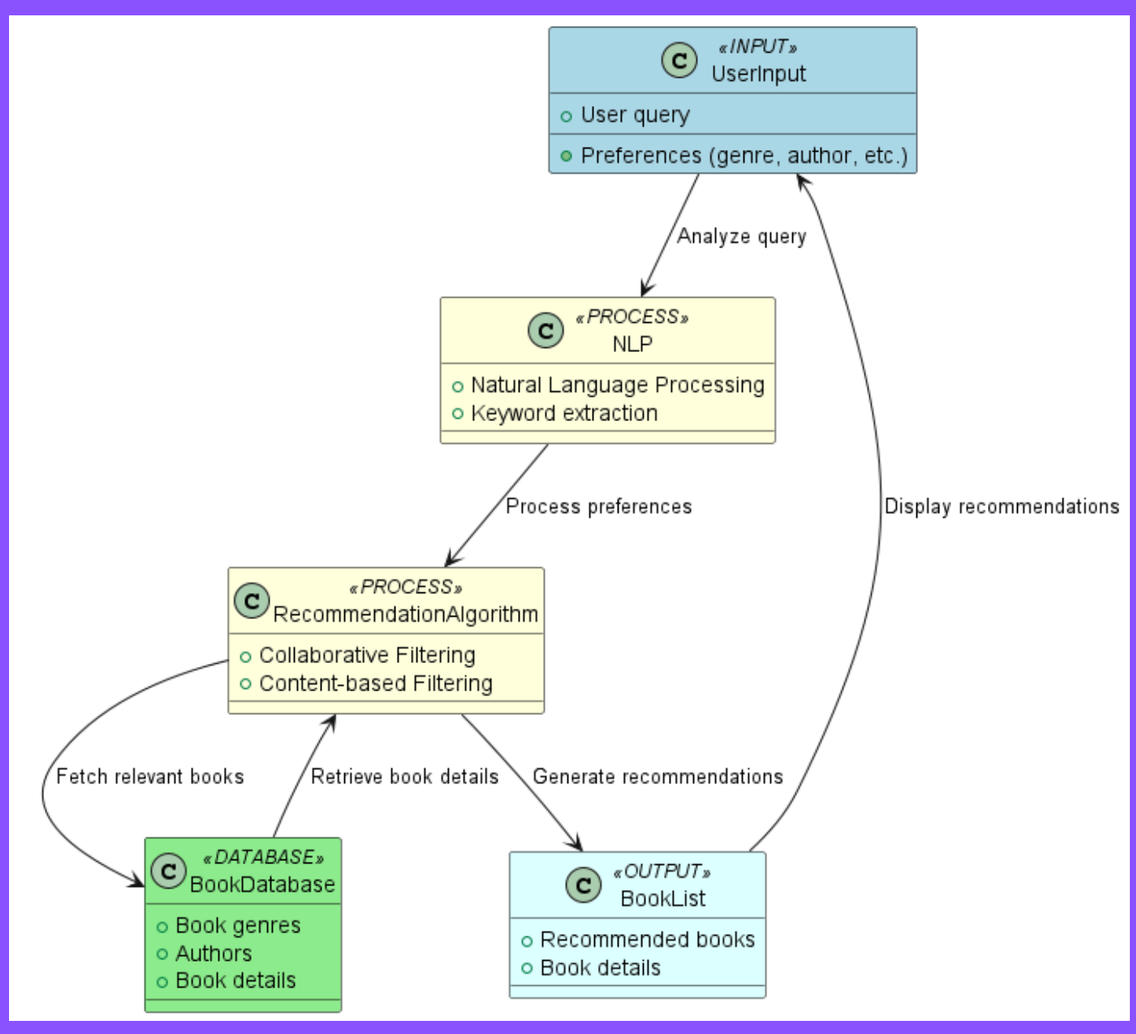
INTRODUCTION

The problem we aim to solve is helping users discover new books based on their preferences, as the overwhelming number of options often makes it difficult to choose. Current solutions include manual searches, basic recommendation systems in e-commerce platforms, and generic booklists, but these approaches either lack personalization or fail to adapt to changing user preferences. The challenge lies in developing a system that not only provides relevant recommendations but also learns and improves with each user interaction, offering more tailored suggestions over time.

GOAL

The main goal of this work is to create a chatbot capable of recommending books based on user input, leveraging machine learning to improve recommendations over time. The research question is: How can we create an intelligent chatbot that provides relevant, personalized book recommendations while adapting to user preferences? The expected final product is a fully functional chatbot that delivers accurate, personalized book recommendations based on user interaction.

PROPOSED SOLUTION



The proposed solution consists of a chatbot that processes user queries using Natural Language Processing (NLP) to understand preferences, such as genres or favorite authors. It accesses a book database, then uses a recommendation algorithm (such as collaborative filtering or content-based filtering) to suggest books that match the user's input. Over time, the chatbot learns from user feedback and interactions, improving the accuracy and relevance of future recommendations. The architecture prioritizes modularity, allowing easy updates to the database or recommendation engine.