

COSC478 ChatBot Development

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Task One: Context for the ChatBot

I have chosen to develop a ChatBot that assists users in navigating a collection of research articles on a specific academic topic. The ChatBot will allow users to :

- search for research articles,
- retrieve summaries of papers, and
- obtain references in a convenient and interactive manner.

The ChatBot's goal is to simplify the process of finding and understanding academic research articles by offering a natural language interface where users can ask specific questions, request article suggestions, or get detailed summaries of selected papers.

Typical Users

The typical users of this ChatBot will be:

- **Students:** research materials on a particular topic for assignments or thesis work.
- **Academic Researchers:** Search for relevant papers for literature reviews, identify gaps in research, or stay updated on recent publications.
- **Educators:** Use the ChatBot to find teaching resources or references for course materials.
- **Professionals:** In fields such as science, technology, or medicine, look quickly access the latest research.

User Actions

Users will be able to interact with the ChatBot in the following ways:

- Search for research articles by keywords or topics.
- Retrieve summaries of selected articles.
- Request references and citations in different formats (e.g., APA, MLA).
- Ask questions about specific research topics, and the ChatBot will guide them to relevant articles.

Knowledge Base

The ChatBot's knowledge base will consist of:

- A database of research articles, possibly from academic repositories like Google Scholar or a custom collection of papers.
- Pre-processed summaries of selected articles for quick access by the ChatBot.
- Metadata for each research article (e.g., author, publication date, abstract, and keywords).