

Bot Design for COSC478 Assignment

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Suggested Bot Nodes with Lifecycle Events

1. Entry Node

- Initiates the bot and provides an introduction.
- Sets user expectations and invites interaction.
- **On Enter:** Display welcome message.
- **Transitions:** Directs user to the prompt for search query.

2. Search Query Prompt

- Prompts the user to enter a search query.
- Ensures that the query matches the intended topic.
- **On Enter:** Prompt the user to enter a search query.
- **On Receive:** Capture the user's input.
- **Transitions:** Check for a valid search term and direct to either search node or error handling.

3. Search for Articles

- Executes the search based on the user's input.
- Communicates the search process to the user.
- **On Enter:** Display a "Searching for articles..." message.
- **On Receive:** Execute code to search the Google API for articles based on the user's query.
- **Transitions:** Direct to Display Article List if articles are found; otherwise, to No Articles Found.

4. No Articles Found

- Informs the user when no articles match the search.
- Provides options to either try again or end the session.
- **On Enter:** Display a "No articles found" message with options to search again or end.
- **Transitions:** Direct to Search Query Prompt for a new query or to End.

5. Display Article List

- Presents a list of articles found.
- Allows the user to select an article to get more details.
- **On Enter:** Show the list of articles to the user.
- **On Receive:** Capture user's selection of an article.

- **Transitions:** Direct to Prompt for User Action (Summary or Citation).

6. Prompt for User Action (Summary or Citation)

- Asks the user if they need a summary or a citation.
- Provides options for the user to choose the type of information.
- **On Enter:** Ask the user if they want a summary or citation of the article.
- **On Receive:** Capture user's choice.
- **Transitions:** Route to either Generate Summary or Generate Citation based on user input.

7. Generate Summary

- Initiates the process of generating a summary.
- Informs the user about the summary creation status.
- **On Enter:** Display a "Generating summary..." message.
- **On Receive:** Execute code to retrieve the article summary.
- **Transitions:** Direct to Display Summary or return to Prompt for User Action.

8. Display Summary

- Shows the summary to the user.
- Invites further queries or ends the session based on user choice.
- **On Enter:** Show the article summary to the user.
- **Transitions:** Prompt to ask if further assistance is needed or if the conversation should end.

9. Generate Citation

- Prepares and displays the citation for the chosen article.
- Ensures that the citation format is accurate and user-friendly.
- **On Enter:** Display a "Generating citation..." message.
- **On Receive:** Execute code to retrieve the article citation.
- **Transitions:** Direct to Display Citation or return to Prompt for User Action.

10. Display Citation

- Presents the citation in the desired format.
- Asks if further assistance is needed or if the session should end.
- **On Enter:** Show the article citation in the requested format.
- **Transitions:** Prompt for further assistance or end the conversation.

11. End

- Completes the session gracefully.
- Displays a farewell or feedback prompt.
- **On Enter:** Display a farewell message.