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C951 Intro to AI

**A.  Explain the functionalities of the chatbot and how they will meet the needs described in the scenario.**

Careerbot is a custom chatbot created to meet the needs described in the scenario. Careerbot accomplishes this by interacting with BSCS students and providing them with 5 career path suggestions based on their responses.

**B.  Identify five computing job types that your chatbot can recommend based on student interaction with the chatbot.**

1. Front End Developer
2. Back End Developer
3. IT Project Manager
4. Data Analyst
5. Database Manager

**C.  Provide the generated chatbot code files to support the five identified job types from part B.**

\**Please refer to the attached/linked files*\*

**D.  Explain how the chatbot training cases were selected and how you used artificial intelligence markup language (AIML) to enhance the functionality of the chatbot. Provide examples of the chatbot’s functionality that represent the selected cases at the end of the training process in support of your explanation.**

Training cases for this chatbot were generated to ensure that each career path outcome was reachable if a student chose answers indicating that they have the characteristics mentioned in the questionnaire. Each characteristic has a unique association with a career path.

Careerbot maintains a simple interface by employing guided conversation along a decision tree, directing the user toward a potential career path. For example, after the user confirms they are ready to begin with career path guidance, the next question determines whether the user enjoys programming. Each question that follows continues to guide the user towards the career path that is most associated with their responses. There are up to 4 questions once the bot is initiated before an outcome is reached.

Examples:

User A is not really into writing code, but is very detail oriented and gifted at analyzing data. Careerbot will recommend the role of Data Analyst to User A.

User B is a gifted programmer and enjoys coding. User B is quite the logical thinker, yet doesn’t really enjoy the creative aspects of designing a GUI. Careerbot will recommend the role of Backend Developer to User B.

**E.  Create an installation manual for the chatbot that includes the web link to access the live chatbot in the Pandorabot platform.**

1. Download and unzip the Careerbot files in a desired location
2. On your browser, go to <https://home.pandorabots.com/home.html> or click [here](https://home.pandorabots.com/home.html)
3. Here you may create a free account or login to pandorabots
4. After loggin in, on the left side of the screen, find and click on the “+” next to MY BOTS
5. A popup dialog box will appear, requesting information for Name, Language, and Content. Fill out the Name section, make sure English is selected in the Language drop down, and select Blank Bot for the Content dropdown. Click Create Bot when fields are completed.
6. On the left side of the screen, select your newly created bot name > Edit > Code Editor
7. On the left side of the main window pane, click File, then click Upload
8. A dialog box will appear. Click Select Files and navigate to the directory where you saved the downloaded Careerbot files. Select the appropriate files and click Open. In the dialog box, click the purple button Upload. Once completed, click Done.
9. Click the orange chatbot icon located on the bottom right of the screen to open the chatbox window. Press any alphanumeric key and enter to begin.

**F.  Assess the strengths and weaknesses of the chatbot development environment and explain how they supported or impeded the construction of the chatbot.**

**G.  Explain how the chatbot will be monitored and maintained to improve the final user experience.**

**H.  Provide a Panopto video recording that includes a verbal summary of the capabilities of your chatbot and an example of human interaction with the chatbot in which it provides meaningful career advice.**

*Note: For instructions on how to access and use Panopto, use the "Panopto How-To Videos" web link provided below. To access Panopto's website, navigate to the web link titled "Panopto Access", and then choose to log in using the “WGU” option. If prompted, log in using your WGU student portal credentials, and then it will forward you to Panopto’s website.*

*To submit your recording, upload it to the Panopto drop box titled "Intro to Artificial Intelligence NIP2 | C951 (student creators) [assignments]." Once the recording has been uploaded and processed in Panopto's system, retrieve the URL of the recording from Panopto and copy and paste it into the Links option. Upload the remaining task requirements using the Attachments option.*

I.  Acknowledge sources, using in-text citations and references, for content that is quoted, paraphrased, or summarized.

J.  Demonstrate professional communication in the content and presentation of your submission.