

COSC478

Special Topic: Applications of GenAI Using Large Language Models

Assignment Two – ChatBot Development

Weighting: 20%

Due Date: 9am Monday 7 October

Overview

For the purposes of this assignment, you are asked to design and develop a ChatBot using BotPress for a context of your choosing. The content could be one of, but not limited to, the following:

- A sports club
- A collection of research articles on a topic
- Choosing the best piece of software for a small business

Submission Requirements

- Please submit one word doc or pdf with:
 - A title page showing your name, email address, student ID number and the name of your ChatBot
 - Each of the Task One, Task Two and Task Four should all start on a new page.
 - Note that in Task Three you are asked to invite the lecturer to your BotPress workspace and record the name of your ChatBot on the title page.

Using a Different Tool to BotPress

If you would like to use a different development tool from BotPress it is important that you discuss this with the lecturer at least two weeks before the assignment is due.

Task One – Choosing and Describing the Context (15 marks)

Write up to one A4 page at the start of your document to cover:

- The context for your ChatBot
- Who the typical users of the ChatBot will be
- What users should be able to do with the ChatBot
- The knowledge bases for the ChatBot

Task Two – Design of ChatBot (30 marks)

Create a 3-4 page section of your document that includes:

- User Personas (at least one)
 - Define your target audience
 - Who will be using the ChatBot?
 - What are their needs and preferences?
- Use Cases and Scenarios (at least two)
 - In what specific situations will the ChatBot be used
 - What problems will it solve?
 - How will it assist users?
- Conversation Flow Diagrams (at least two – can be hand drawn and scanned)
 - Visual representations of the chatbot's conversation paths
 - Includes different ways in which users might interact with the ChatBot and how the ChatBot will respond
- Functional Requirements
 - List the features and functionalities the chatbot must have.
- User Experience (UX) Considerations:
 - Outline how to make the chatbot easy and enjoyable to use.
 - This includes creating a friendly and engaging tone.
- **Task Three – Develop and Publish the ChatBot (40 marks)**
 - Develop the ChatBot in BotPress.
 - You will need to include everything that is specified in the design in Task Two.
 - Publish the ChatBot.
 - In the members area in BotPress, you will see you can invite people to join your workspace – invite trevor.nesbit@canterbury.ac.nz.
 - Record the name of the ChatBot on the front page of the document that you submit.
- **Task Four – Reflection (15 marks)**
 - Write a reflection of half to one page about:
 - Your experience in developing the ChatBot
 - What you would do to extend your ChatBot