

COSC 4P02: Proposal

Objective:

- Problem:
 - Canada Summer Games is looking to have a chatbot developed that can answer user questions
- Objectives:
 - Program a chatbot that can converse with the user
 - Create a web scraper to retrieve pertinent information for Canada Summer Games
 - Utilization of a database for storing user questions and answers
 - Create a website that brings the chatbot and user together
- Importance:
 - To handle FAQs round-the-clock, with minimum waiting time
 - To boost interest for Canada Summer Games
- Overall:
 - To create a website with a chatbot for Canada Summer Games that can answer user questions or direct them to the site if the question cannot be answered

Software Engineering Process:

We will be using the Integration and Configuration process for the development of the chatbot. Since we will be using a database to store the bot's memory and responses, it would be best to reuse a database structure rather than creating one from scratch. Also, we will use strategies previously discovered to be the most efficient to configure our ChatBot for a pleasurable experience when interacting with it.

We are going to follow Scrum which is an agile development approach. This requires a set of sprints that focuses on developing an increment during a fixed set of time. Product Backlog is used for the planning of the order in which the software is to be developed, with the items having the top priorities to be selected for each sprint (Sprint Backlog). Team meetings have an emphasis on the tasks to be done during that particular time period and how they can be achieved. Scrum development is divided into 3 phases which are:

- The initial phase in which the main goals of the project are declared and the system structure is mapped out
- Sprint phase in which sprint cycles take place, where each one gives an increment of the software developed
- The project closure phase is where software is given the final increment. Along with that, user manuals are established and the team reflects on what was learned during the project

Team:

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Github: [hi18cc/ChatBot \(github.com\)](https://github.com/hi18cc/ChatBot)

Timetable:

Daily Meetings:	Mondays and Fridays 4:30 pm
Sprint 1:	January 24 - February 7
Sprint 1 Review:	February 8
Sprint 2:	February 9 - February 22
Sprint 2 Review:	February 23
Sprint 3:	February 24 - March 10
Sprint 3 Review:	March 11
Sprint 4:	March 12 - March 26
Sprint 4 Review:	March 27
Sprint 5:	March 28 - April 11
Sprint 5 Review:	April 12
Finalization:	April 13 - April 18