

CS 476 - Project Proposal Initial Draft

Project Title - My Mental Health

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1. Problem Definition

Develop a website for University of Regina students seeking mental health help. It will function as a resource hub as well as including interactive components such as daily check-ins and volunteering opportunities related to mental health.

2. Requirements Elicitation

Two types of users/roles: Users and Admin

2.1 Functionality for Users

- Create Profile: The User visits the signup page and enters required information. The User needs to create a profile first before they can access the other functionalities.
- Log-In: The User needs to login every time after a session expires to access other functionalities.
- Daily Check-In: The User visits the check-in section and selects an emoji that describes their mood for the day. The history of these check-ins can be checked day-by-day.
- Chat Bot: The User has the option to use a chatbot that will direct the user to the right information regarding the information provided by the user.
- Fill Out Questionnaire: The User can choose to fill out a questionnaire if they do not know which resource they need. After filling out the questionnaire, the software will recommend resources based on their answers.
- Access Resources: The User can access several resources and links provided on the website for additional information, including mental health help as well as volunteer opportunities.
- Access Exercises: The User can choose to do exercises if they need temporary relief for any mental health issue.

2.2 Functionality for Admin

- Update Information/Resources on website: The Admin provides the right information and resources on the website.
- Maintain Databases: The Admin organizes and makes sure the database is running smoothly.
- Manage Profiles (ability to delete): The Admin can modify or delete any profiles.
- View Chat Bot Chats: The Admin will have the access to view the chat bot conversation at any time.

2.3 Quality Requirements

- Correctness:
 1. After filling out the questionnaire, the User should be directed to the relevant resources.
 2. The chatbot should also give the correct answer based on the User selection.
 3. Any changes that the Admin makes should be saved correctly in the database and reflected in the website that the users view.
- Time-efficiency:

1. Profile creation should not take longer than 5 seconds after the required information has been entered and the 'Sign Up' button has been clicked.
 2. The questionnaire should recommend resources within 5 seconds after all of the questions have been answered.
 3. Chat bot responses should take less than 3 seconds.
- Robustness:
 1. If the User/Admin enters the wrong email or password on the login page, the software displays a message to the User/Admin that the login information is wrong.
 2. If the User does not fill all of the required fields on the signup page, an incomplete profile will not be created and a message will be displayed to the User to fill out all of the required fields.
 3. There should be an alert/confirmation input for the Admin everytime they modify/delete a User, so that accidental modifications/deletions do not happen.
 - User-friendliness:
 1. The User should easily find the links and resources they need.
 2. A short description of how to use the daily check-in functionality will be provided to the User.
 3. The Admin should have easy access to add and retrieve information from the database.