



Project Name: Shondesh – A Chat Bot

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Shondesh

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Requirements Document

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Introduction

This document is the requirements document of a chat bot project. The purpose, the scope, the users and stakeholders, the use cases, the functional and nonfunctional requirements of the application.

Purpose and Scope

The purpose of the chat bot is to allow users be able to the chat with a bot assistant, like a normal chat application. The users can ask question and get answer. No voice chatting will be developed, unless there is time to do so. The chat bot is written in python, but due to the lack of experience in python, while developing the program, practicing techniques with python libraries and working on it as much as possible will help have some python skills and be more ready to develop the application.

For the scope of the project, the project will be tested as the program is being developed.

A database for the users registered will be developed and tested, a menu will be developed and tested and GUI's will be developed and tested, for the users' benefits.

When the chat bot is near completion, more testing will be done in order to make it less buggy or more user friendly.

Target Audience

The target audiences are students, teachers, authorities, guardians or any person who wants to know about Daffodil International University can use this chat bot.

Terms and Definitions

GUI - Graphic User Interface

Project Overview

The functionality of the chat application is to give the ability to chat with a bot. Thbot will act like an assistant who will give information about the university. The users and stakeholders will be a small group for now, the use cases will be what is available to the user, and the functional/nonfunctional requirements will be covered, as well as the milestones of the chat application.

Users and Stakeholders

This section will deal with the users and stakeholders. The users will be using the chat application and the stakeholders will develop, maintain, and test the chat application.

Team

We will be developing, maintaining, and testing the chat application through its phases of development.

Users

The users will be anyone who has the chat application and registers for it.

Use cases

These are the use cases for the client of the chat application. The server has access to all of these cases as well.

Main Menu

When the client runs the chat application, the client will see the main menu, which will welcome them, At the main menu, the client will have the choice to register for the chat application, login to the chat application, or exit it.

Register/Login/Logout

The user must register in order to login, the user must login in order to send messages and must be able to logout if the user wants to logout.

Online menu

After the client is logged in, the client can choose to send a message and be able to logout when the client wants to, which will be by logging out by hitting the logout button or by hitting the exit button.

Chat history

When the client wants to see the chat history, the user will be able to do so. The user will be able to clear the history if the user wants to.

Functional Requirements

This section will cover the functional requirements of the chat bot.

Login Menu function

This functional requirement is for prompting the user with the option to register for the chat application, logging in, or exit the program. It will take the form of a GUI

Register function (Login Menu aspect)

This aspect of the login menu will ask the user for the name, username, and password of the client. It will check if the username has been taken and will close if the username is not taken and will go back to the main login menu.

Login function (Login Menu aspect)

This aspect will ask for the username and password. Errors will occur if a space is left blank, the username doesn't exist, or the password doesn't match with the username. If the username and password matches, you are online and able to message.

Exit (Login Menu aspect)

This aspect will close the chat application.

Nonfunctional Requirements

These are the nonfunctional requirements of the chat application. This is basically the section that deals with the quality of the chat application rather than the functionalities of the application.

User Friendly

The chat application needs to be user friendly, when using its user interface.

GUI

By using GUI's, it should make the application more user friendly and better to use instead of a command line. Buttons will be used.

Milestones and Deliverables

This section will deal with the timeline of the development of the chat application

Development/Practice

Due to the lack of Python experience, while we develop the chat application, we will practice with python and use the chat application as the practicing workspace.

Practice

Practice GUI techniques and practice techniques between the client and server.

Develop libraries

Use ANN (Artificial Neural Network) as an algorithm and also using several libraries for it.

Testing during/after development

Test the program and find any bugs or glitches in the chat application. Testing will be done as the application is being developed, but the more developed it gets, the more testing will be done.