System and Unit Test Report - CMPS 115 Software Methodology

Discord Bulletin Bot, discordbotteam, 11/29/2021

System Test Scenarios

Sprint 1 - scrapped frontend interactions.

1. User Story 1: As a discord user I want the bot to react to different commands.
2. User Story 2: As a discord user, I want to be able to subscribe to specific announcements
   a. Scenario: SCRAPPED and replaced with slash commands
      i. User opens up discord and navigates to the server with the bot.
      ii. The user types in a '!' followed by any text.
      iii. The user would receive a direct message from the bot with the text they typed in after '!'
         ● The bot would also react with a thumbs-up emoji to the user's message.

Sprint 2

1. User Story 1: As a discord user, I want to be able to subscribe to specific announcements
2. User Story 2: As a discord user, I want to be able to select tags from the drop down menu to associate with my post.

3. User Story 3: As a discord user, I want to see a list of bot function suggestions when I type in '/' into the chat channel.

4. User Story 4: As a discord user, I want to have a good experience with responsive and interesting GUI, when creating a User Profile.
   a. Scenario:
      i. User opens up discord and goes to favorite server with the bot.
         ● User navigates to any text channel.
         ● User types in '/' into the discord chat channel
         ● User should see the available bot commands.
      ii. User types in '/subscribe'
      iii. User sees a dropdown menu of tags
         ● The bot would respond what tags the user selected

5. User Story 5: As a developer, I want to containerize my database separate from the app, so I can scale when I deploy.
   a. Scenario
      i. User run builds the docker image from Dockerfile
      ii. Run $docker-compose up
      iii. User should see containers running
   b. Note: we scaled down this user story to containerize the app so that we have a more stable dev environment.

Sprint 3

1. User Story 1: As a discord user, I will be notified through a direct message when a post with relevant tags is posted.

2. User Story 2: As a discord user, I would like to be able to register to use the bot and unregister when I no longer need the bot.
   a. Scenario 1:
      i. User opens up discord and goes to favorite server with the bot
         ● User navigates to any text channel
         ● User types in '/register' into the discord chat
         ● The user will be registered inside the database
      ii. User types in '/unregister' then presses the red button with the unregister label
      iii. User should see a notification telling them that their data has been deleted from the database
   b. Scenario 2:
      i. User registers to the bot by typing '/register'.
      Ii. User types in '/subscribe' into the discord chat
         ● User can select one or more tags using the dropdown of all tags they have not subscribed to yet
      iii. The bot replies with the tags the user has selected.
         ● The user will now receive all posts associated with their subscribed tags
   c. Scenario 3:
      i. User registers to the bot by typing '/register'.
      ii. User types in '/unsubscribe' into the discord chat
         ● User can select one or more tags using the dropdown of all available tags they have subscribed to.
      iii. The bot replies with the tags the user has selected.

- The user will now no longer receive all posts associated with their unsubscribed tags

d. Scenario 4:

    i. User registers to the bot by typing '/register'

    ii. User types in '/post' into the discord chat and a message attached to the command.

- The bot then responds with a dropdown menu with a list of all available tags to post to.

    iii. User should be able to post a message to all subscribers. Subscribed users will be pinged through a direct message with the posted message, the tags associated with the post, and the send date of the direct message.

Sprint 4

1. User Story 1: As a discord user, we want to refactor the display menu to display the specific information of each command.
2. User Story 2: As a discord bot user, there should be a slash command (/profile) where it outputs the profile of the user
   a. Scenario 1:
      i. User opens up discord and goes to favorite server with the bot
      ii. User types in a command, ex: '/profile'
      iii. Users should see a list of tags they subscribed to and also see descriptions of the tags. Users should be able to identify the profile given the users' name and users' icon.
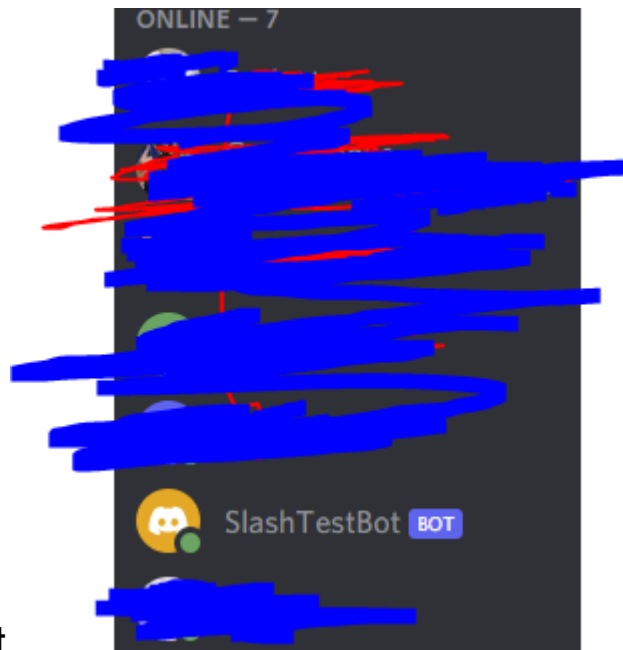   b. Scenario 2:

        i.   User opens up discord and goes to favorite server with the bot

       ii.   User types in a command, ex: '/subscribe

      iii.   Users should only see an instruction message and a drop down menu.

3. User Story 3: As a Server Operator, I want to deploy on the cloud

    a. Scenario:

        i.   User logins to AWS services.

       ii.   User creates instance/setup bot in the VM

            1. Follow the documentation

      iii.   User Starts up

      iv.   User should see bot go online on the server user

list

Unit Tests

See Testing Folder