Martin Price
Dr. Baliga
Senior Project
April 23, 2019

Summary of Work

1. Bubble Database
    a. Researched SQFlite for use in BUBL
    b. Wrote database.dart class for BUBL, this includes:
        i. Implementing 4 datatables
            1. bubble
            2. pop_state
            3. app_state
            4. color_themes
        ii. Writing queries for the databases and their specific attributes
        iii. Writing functions for the databases including
            1. Login feature to help bubble repeatability
            2. Specific queries for bubbles and repeatability
        iv. Testing to ensure database actively stores, updates, retrieves, and removes attributes of bubbles
2. Bubble Settings XML
    a. Researched XML for use in BUBL
    b. Appended database.dart for XML purposes in last sprint, including
        i. Initializing an XML document on startup
        ii. Provide getters and setters for the document
        iii. Save the documents state everytime the app closes
    c. Configured BUBL to store and retrieve app settings, this includes
        i. Modified the main.dart file to open and retrieve settings stored in the XML
        ii. Modified themes.dart file to initialize the settings on startup
        iii. Modified fontSelection.dart and themeSelection.dart file to store settings to XML
3. Modifications to Classes in support of the database
    a. Bubbles.dart
        i. Appended methods to allow Bubbles to be created from the database and insert new bubbles when created.
        ii. Appended setters to actively store updated bubble attributes when edited
    b. BubblesList.dart
        i. Appended methods to work with the bubbles repeatability.
            1. Enters login time to the app

2. Based on this populates bubbles for a new day or the same day

c. Main.dart
    i. Modified to fix the appearing bubbles glitch
    ii. Modified to take in settings stored in XML on startup
d. Bubble_Widget.dart
    i. Modified to work with database
e. Add_Widget.dart
    i. Modified to work with database

Personal Summary

My main role for BUBL was the implementation of the back end processes. While I did edit several class, these modifications were built on top of the code that was already written. I volunteered to make these modifications because I wrote the database and it would be easiest for myself to make these additions.

In regards to GitHub and the commit history, it overall reflects that of the trello board. There were some issues merging with Github, and to get around this, I would usually copy the code from other branches manually. My branch was then used as the master. As a result of this, all classes that I brought in were then committed under my name to branch. This explains the two massive commit records for Brian and I in the later part of the semester, and why some team members may appear to be lacking. All in all the trello board done list is the best gauge for commits in our Team. Everyone on the team was informed and expected to be responsible for updating their own tasks.