SDV602 Portfolio Project

Milestone 1

Lydia Tie
NMIT STUDENT ID: 13510614

1. Design and Documentation

1.1   Application description

Data Source: https://github.com/owid/covid-19-data/tree/master/public/data/
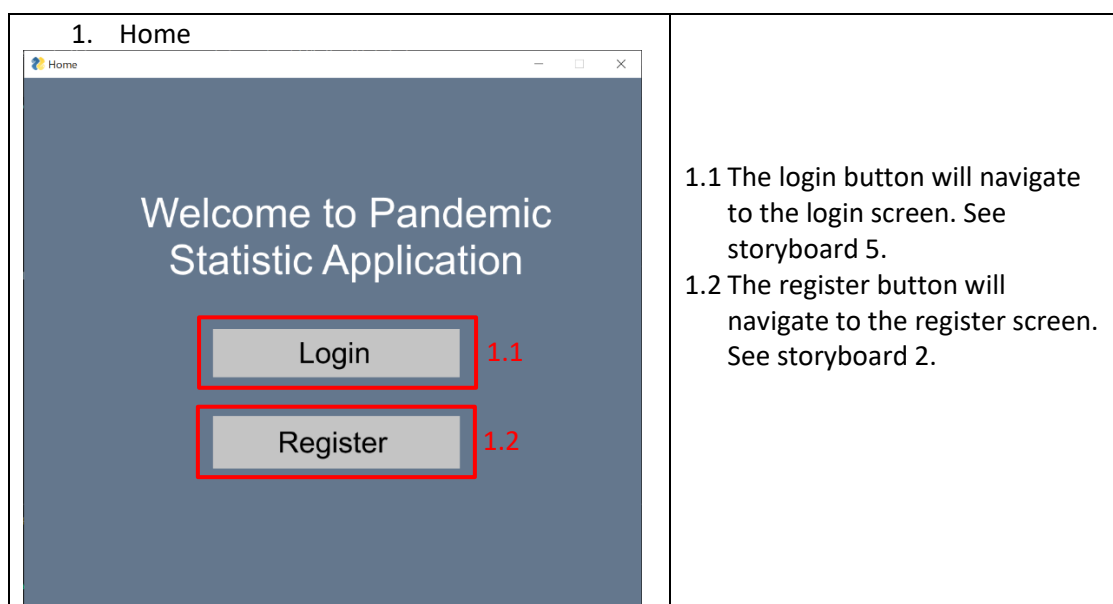
The name of my application will be Pandemic Statistic App. This application allows data analysts to upload a Covid19 dataset and display a chart based on the input entered by the analysts (e.g. countries name, highest, lowest – a keyword to filter the display). The data explorers are likely to display the following chart:
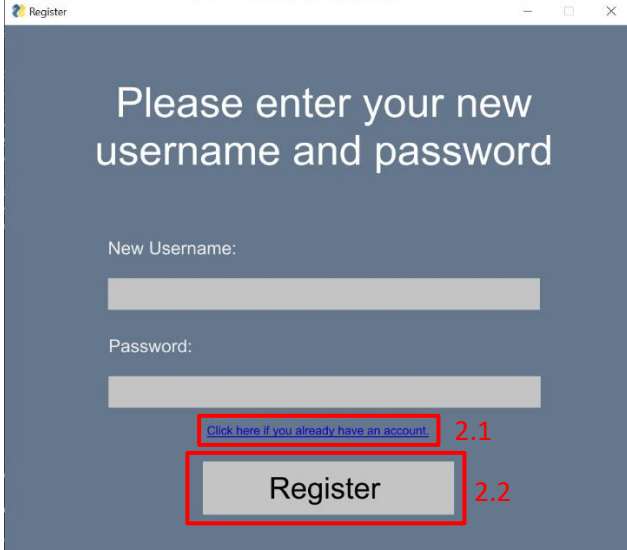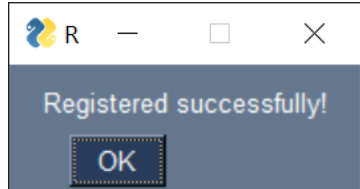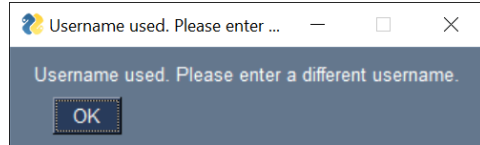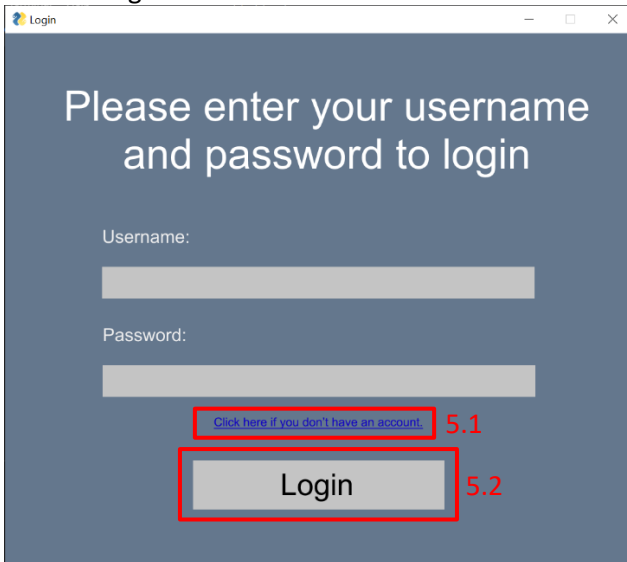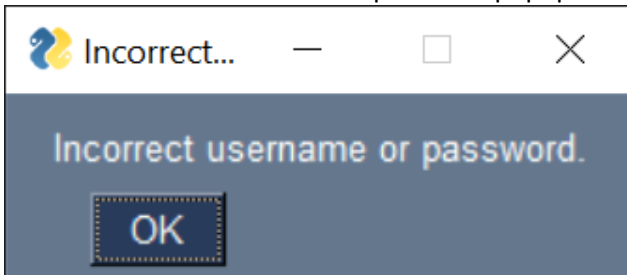
1. Monthly new cases statistic for worldwide and by country – time series plot
2. Top 5 highest or lowest death rates by country – pie chart
3. Top 10 highest or lowest number of people fully vaccinated by country – bar chart
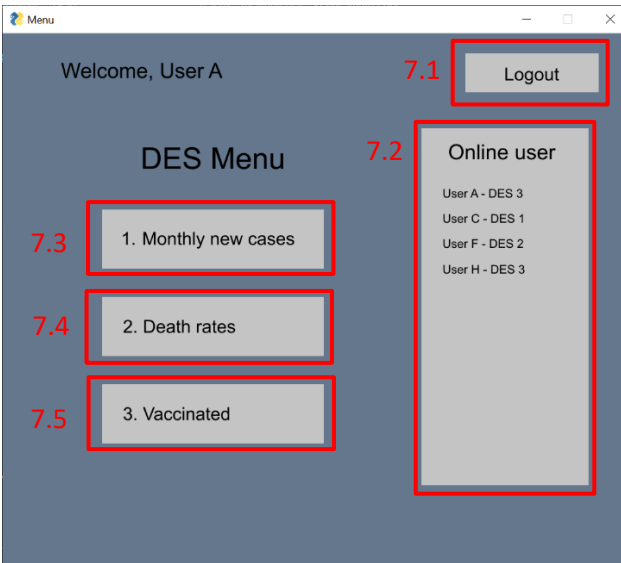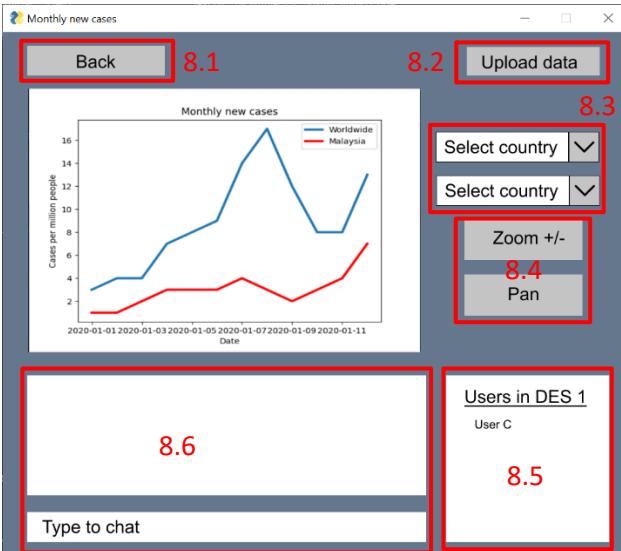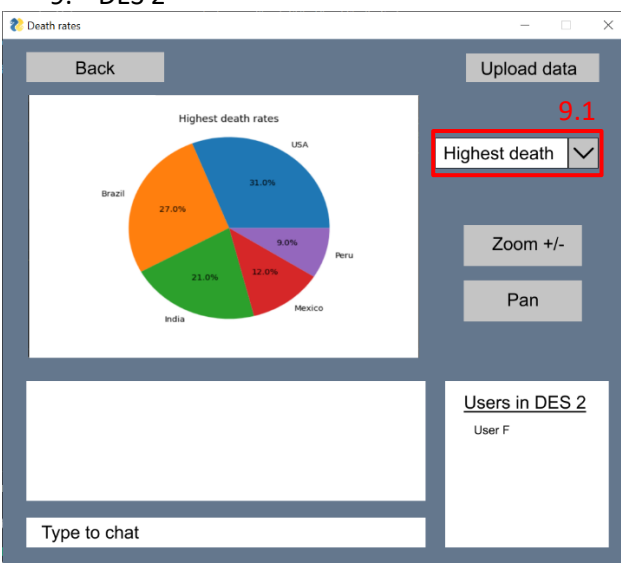
By using the application, the analysts can use the result as a reference and determine which country is the safest to travel during this pandemic event. This could be a useful data result for airline companies.

Each data explorer screen will have a dropdown list for analysts to filter the display, an upload data source button, settings button such as zoom in/out or pan, and a chat system in the same data explorer screen. The application is for multiple data analysts and there will be a registration and login system for analysts to create their own account.

1.2   Storyboards

1. Home	
	1.1 The login button will navigate to the login screen. See storyboard 5. 1.2 The register button will navigate to the register screen. See storyboard 2.

2. Register **Please enter your new username and password** New Username: Password: Click here if you already have an account. **2.1** **Register** **2.2**	2.1 A hyperlink to navigate user to the login screen if user has an account. 2.2 If user entered a new username that doesn't exist in the database, clicking the register button will popup a successful window. See storyboard 3. Or else, another popup will be shown. See storyboard 4.
3. Success popup R — □ ✕ **Registered successfully!** OK	**4. Username used popup** Username used. Please enter … — □ ✕ Username used. Please enter a different username. OK
5. Login **Please enter your username and password to login** Username: Password: Click here if you don't have an account. **5.1** **Login** **5.2**	5.1 A hyperlink to navigate user to the register screen if user does not have an account. 5.2 If user inputs a wrong username or password, clicking the login button will pop up incorrect username or password window. See storyboard 6. Else, login is successful, and user will be navigated to the menu screen. See storyboard 7.
6. Incorrect username or password popup Incorrect... — □ ✕ **Incorrect username or password.** OK	

7. Menu
 	
Welcome, User A   **7.1**   Logout
 	
DES Menu   **7.2**   Online user
                              User A - DES 3
7.3   1. Monthly new cases   User C - DES 1
                              User F - DES 2
7.4   2. Death rates   User H - DES 3
 	
7.5   3. Vaccinated
	7.1 The logout button will navigate to the login screen.
	7.2 This will show all users that is online and in which DES they are located.
	7.3 DES 1 will navigate to storyboard 8.
	7.4 DES 2 will navigate to storyboard 9.
	7.5 DES 3 will navigate to storyboard 10.

8. DES 1
 	
Monthly new cases
Back   **8.1**   **8.2**   Upload data
                                  8.3
Monthly new cases
Select country ▼
Select country ▼
Zoom +/-
8.4   Pan
 	
8.6   Users in DES 1
                  User C
               8.5
Type to chat
	8.1 The back button will navigate user back to the menu screen.
	8.2 The upload data button is used for user to upload csv file that contains the data.
	8.3 Two dropdown lists for user to select the country and update the display of the plot.
	8.4 Settings to zoom in/out and pan the plot.
	8.5 Display the user that is currently in that DES.
	8.6 A chat room for users to interact in the DES.

9. DES 2
 	
Death rates
Back   Upload data
                                 9.1
Highest death rates
Highest death ▼
Zoom +/-
Pan
 	
                          Users in DES 2
                  User F
Type to chat
	DES 2 will have the same features as DES 1 except:
	
	9.1 Drop down list for user to filter and update the display of the plot.

10. DES 3	
10.1	DES will have the same features as DES 1 except: 10.1 Drop down list for user to filter and update the display of the plot.

2. Test Scripts

Separate file attached. (Milestone1_prototype.py)