

## **Programming Assignment 3: Report Draft**

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Programming: The Next Step

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## **Description**

This package allows users to track safety for LGBTQ+ individuals around the world. Users can enter a country name and learn which local laws apply to LGBTQ+ individuals in terms of same-sex marriage, legal gender change, and anti-discrimination laws, as well as receiving a safety rating for this country. This package will be created in R, with an R shiny user interface.

## **Scenario**

**Purpose:** scenario which describes the use of this LGBTQ+ safety tracker by an interested traveler.

**Individual:** An LGBTQ+ user who is interested in seeing whether a country they plan to travel is safe for their identity.

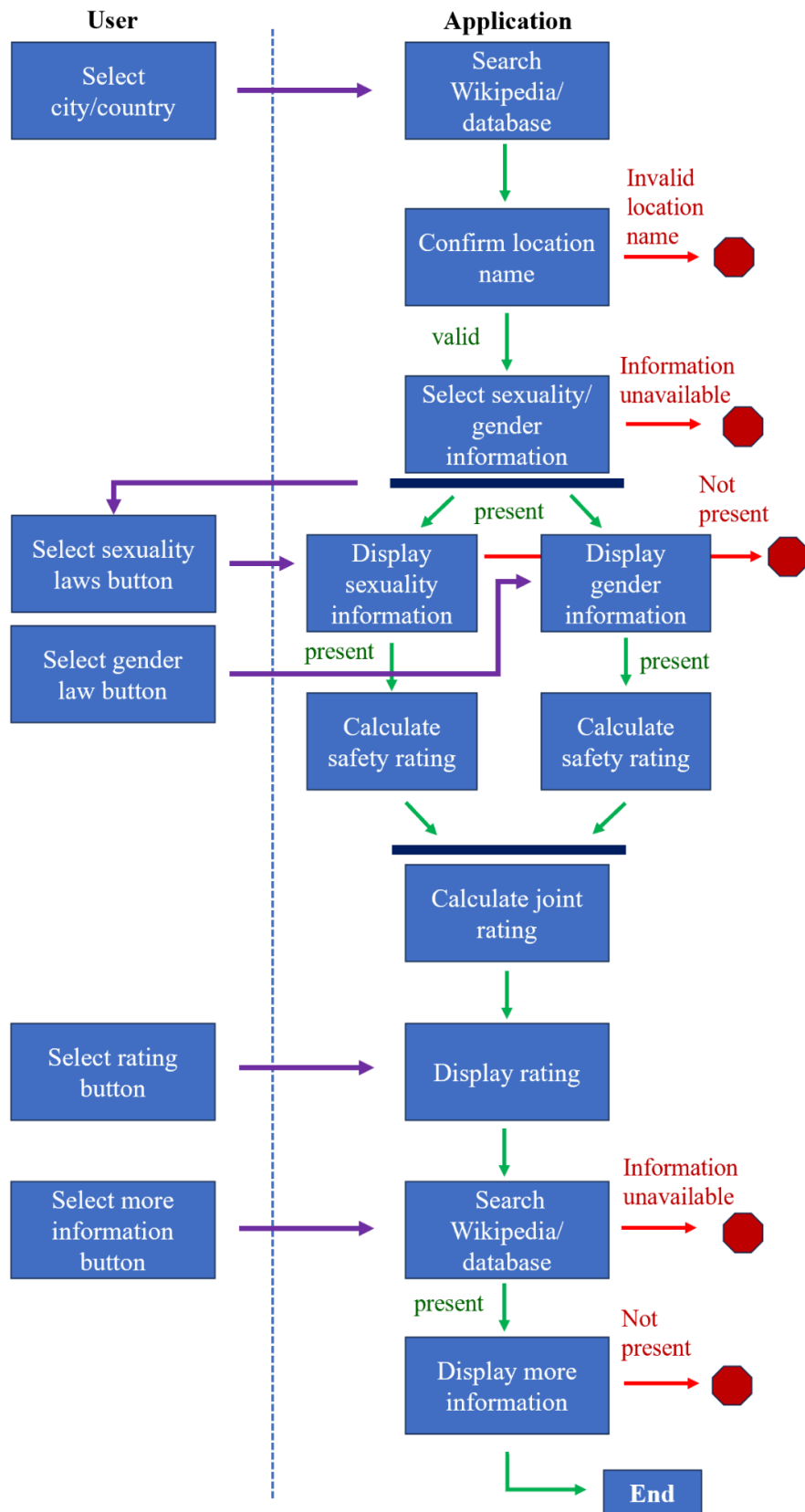
**Equipment:** A browser with access to the internet. Users also require the dplyr package, and R shiny.

### **Scenario:**

1. The user opens the application in R shiny.
2. The user sees a button titled “press here to begin”. The user presses this to start.
3. The application will load the dataset which includes the necessary information on LGBTQ+ laws in different countries.
4. The application prompts the user to enter a country name in a box titled “Choose a country”. The country name should be capitalized and spelled correctly.
5. The shiny application will display several boxes with questions which the user look at. sexuality laws, gender laws, safety rating, and more information.
6. Under the first box, titled, “Is same sex marriage legal”? The application will display a word or phrase which shows whether same sex marriage is legal in the chosen country, and under what conditions.

7. Under the second box, titled “Is gender change legal”? The application will display a word or phrase which shows whether gender change is legal in the chosen country, and under what conditions.
8. Under the third box, titled “Any forms of discrimination against LGBTQ+ people banned”? The application will display a word or phrase which shows whether anti-LGBTQ+ discrimination is banned in the chosen country, and to what extent.
9. Under the fourth box, titled “Overall Safety rating”, the application will show the safety rating for LGBTQ+ individuals on a scale of 1-5. This takes into account legalization of homosexuality, legalization of same-sex marriage, legalization of gender change, and anti-LGBTQ+ discrimination laws.

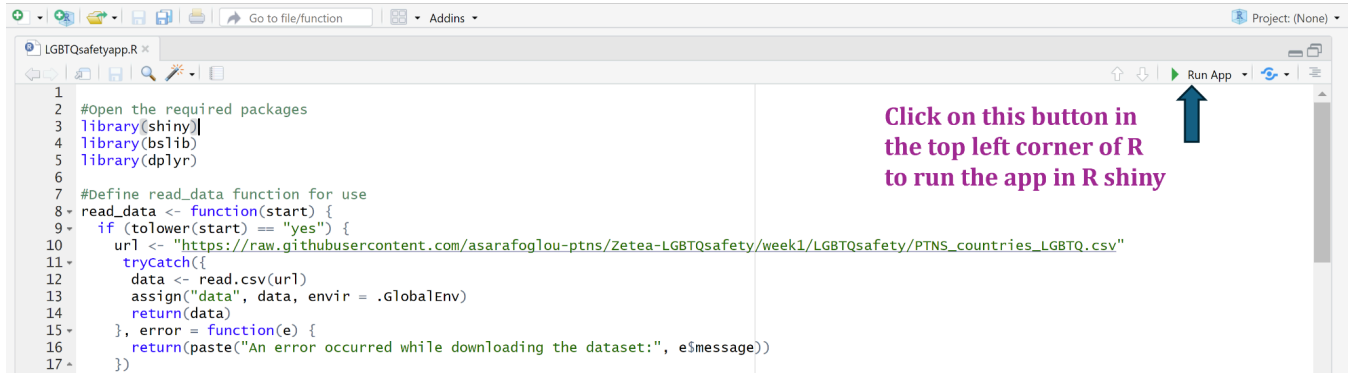
## Flowchart



*Note. An edited version of this will reflect the final version of the app/package functions.*

## How to Use LGBTQsafety Shiny App

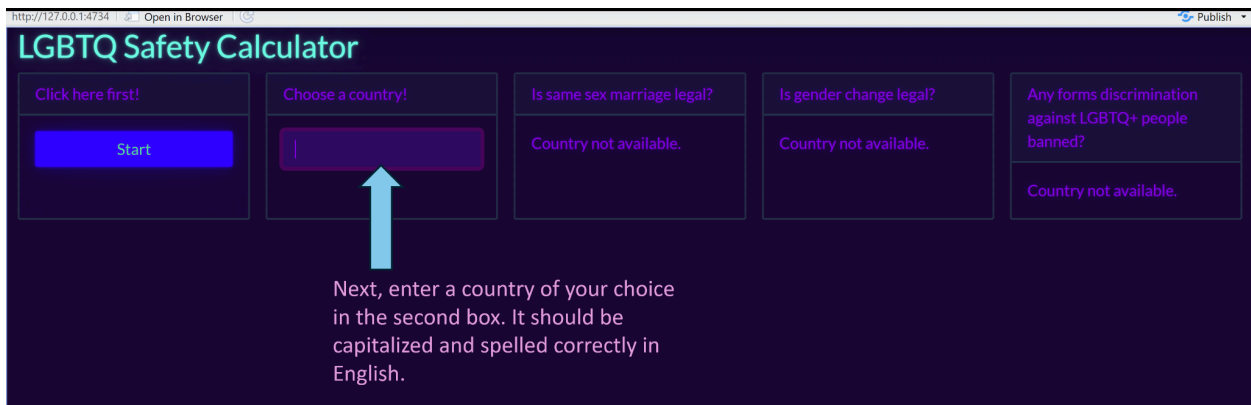
1. Open the file for the application, which can be found in github, in RStudio.



- 2.



- 3.



4.

### LGBTQ Safety Calculator

Click here first!	Choose a country!	Is same sex marriage legal?	Is gender change legal?	Any forms discrimination against LGBTQ+ people banned?
<a href="#">Start</a>	Equatorial Guinea	Illegal	Illegal	No

This box will display whether same sex marriage is legal or illegal in this country. Some countries also have further details.

This box displays whether gender change in this country is legal, and under what conditions.

This box displays whether there are any laws that ban discrimination against LGBTQ+ individuals in this country

5. *Note: I may add functions for calculating a safety rating for the country. If possible, this will be present in the final version.*