# **Team Burgers and Fries**

Benjamin Avrahami: Frontend and Bootstrap Framework

Ethan Chen: Backend Flask/API

Peihua Huang: Database

Jionghao Wu: Project Manager

### **Core Components:**

### • Login Mechanism

- After they click login, their info is checked with the database to make sure that the username and password are correct
- If either is incorrect, they will be returned to the login page with a flashed error
- If the user correctly signs in, a new session will be created and they will be redirected to the homepage

### • Sign up Mechanism

- Users also have the option to create a new user, which will be on a different page
- They have to put in a username and password, neither of which can be blank
- If the username is already taken, they will be returned to the page with a flashed error
- If the signup is successful, a new session will be created and they will be redirected to the homepage

### • Home page

- The home page will welcome the user and guide them either to the quiz or to search for country facts
- There will be a link redirecting to the quiz, and a search bar to look for countries,
   which will autocomplete countries the user types

#### Quiz

- The quiz will be to list out all the countries of the world.
- Quiz progress will be saved until user logs out.
- User can also choose to reset quiz.
- As the user enters each one in, there will be a table displaying the results,
   organized by continent

## • Country page

- Each country will have their own page, which can be accessed by the search bar on the home page
- Many facts about each country will be provided by the Countries and UNdata
   APIs
- There will also be a currency converter for most countries, which will convert some amount of that country's currency into a number of other currencies

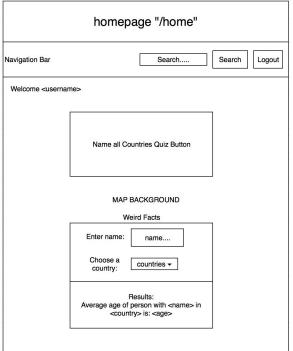
## **APIs used:**

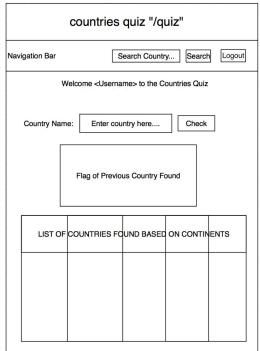
REST Countries - basic info about countries

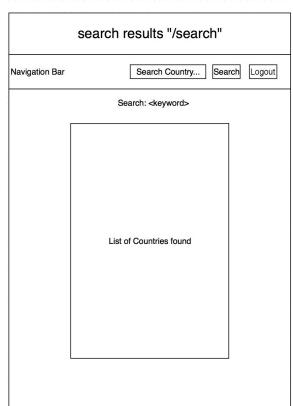
Currency Exchange - exchange rates between base country and other countries on record Agify.io - number people and average age of a person with a given name in a given country

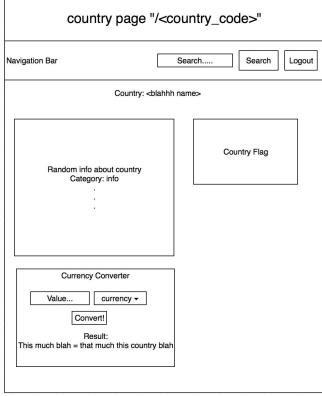
# **Component Map:**

login page "/login"	create-account page "/create-acc"
Username: Password: Login Create Account	Username:  Password:  Re-enter Password:  Create Account  Return to Login

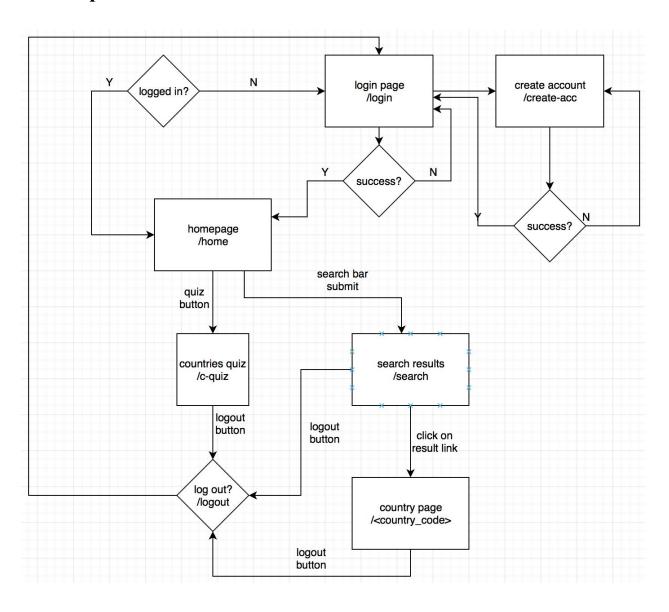








# Site Map:



# **Database:**

### users

Username	Password
TEXT UNIQUE	TEXT

## countries

name	alpha_2	alpha_3	region
TEXT UNIQUE COLLATE NOCASE (case insensitive)	TEXT UNIQUE	TEXT UNIQUE	TEXT

### stat

name	calling_code	capital	population	lang	flag	currency
TEXT UNIQUE COLLATE NOCASE	TEXT	TEXT	INTEGER	TEXT	TEXT	TEXT

## currency

currency_1	value_1	currency_2	value_2
TEXT	REAL	TEXT	REAL

## name

name	code	count	age
TEXT	TEXT	INTEGER	INTEGER

## quiz

name	country	region
TEXT	TEXT	TEXT

Functions (for app.py to call, does not include helpers):

```
add login(username, password)
```

- Returns empty string if credentials are added successfully to the database
- Returns error message as a string if credentials already exist or if either username/password is empty

```
verify login(username, password)
```

- Returns empty string if credentials are correct.
- Returns error message as string if credentials are incorrect or if username/password is empty

```
convert currency(curr 1, value, curr 2)
```

- Returns a double of how much value in currency 1 is in currency 2.
- Returns -1 if value is invalid (ie: a negative number) or if the conversion rate is not in database

```
reset quiz(username)
```

- Resets the country quiz for the given username

```
get name stats(name, alpha 2)
```

- Returns a list of the average age of people with the given name in the country with the given alpha-2 code
- If the name is not found in the given country, [0, null] is returned

```
get_currency(country)
```

- Return the currency code of the given country

```
get currency list(currency)
```

- Return the list of currencies that the given currency can be converted into
- Returns an empty list if conversion is not available

```
search country(keyword)
```

- Return a list of countries with given keyword in its name.

```
found country(country)
```

- Set found column for given country to 1 (meaning user found it in quiz)

```
get found countries()
```

- Returns a dictionary, with the keys being the 5 regions of the world (Americas, Asia, Europe, Africa, Oceania) and the values being the list of countries found in each region

```
alpha to country(alpha 3)
```

- Converts alpha 3 code to country name and returns it

```
get country stat(country)
```

- Returns a dictionary of the name, alpha-2 code, alpha-3 code, calling code, capital, population, language, flag, currency, region of the given country