

Team Three Stooges

Members: Saad Bhuiyan (PM), Hannah Fried, Benjamin Avrahami

Project Name: Wack Travel Plans

Frontend Framework: BootStrap is better suited to our project due to the use of cards and carousels, as well as other tools that are well suited for browser usage.

Division of Labor:

- **Database**: sqlite3 commands, facilitating adding/editing data, creation of databases, interaction with APIs to cache data
- **Frontend**: HTML templating files, using blocks, Jinja interactions, Javascript
- **Backend**: linking form data from site to database functions, Flask routing to different stories, API implementation

Role Assignments:

- Saad: **Project Manager**, **Database**
- Hannah: **Backend**
- Benjamin: **Frontend**

Component/Page Description:

- /login
 - Takes in user data for username and password
 - Authenticates user data entered
 - Flashes error message if data authentication fails
 - If authentication successful redirects to /home and adds user to session
 - Able to register for a new account by clicking the button
 - Redirects to /register
- /register
 - Takes in user data for username and passwords
 - Checks if username or passwords are empty
 - Flashes appropriate error
 - Checks if username is unique
 - Flashes error if not unique
 - If unique, redirects to /home and adds user to session
- /home
 - Welcomes the user currently logged in
 - Shows favorite nations and allows users to remove nations
 - The card can be clicked to go to detailed stats as well
 - Able to sign out
 - Redirects to /login
 - Removes session data for user
- /settings
 - Allows users to update password
- /browse
 - Lists all the nations in our database and allows users to access the nation's specific page in cards
 - Rating included in the card as well as a picture of the flag
 - Allows user to add the nation to favorites, or remove if it is already favorited
- /nation/<nation>
 - Depends on the GET request received from whichever button was pressed
 - Contains API-retrieved data for every nation on the website
 - Displays flag, description, and other data like area, population, capital, etc.

Countries included are the world's 62 largest economies by gross national income (2016):

| | |
|----|---|
| 1 |  United States |
| 2 |  China ^[n 5] |
| 3 |  Japan |
| 4 |  Germany |
| 5 |  United Kingdom |
| 6 |  France |
| 7 |  India |
| 8 |  Italy |
| 9 |  Brazil |
| 10 |  Canada |
| 11 |  Russia ^[n 3] |
| 12 |  Korea, South |
| 13 |  Australia |
| 14 |  Spain |
| 15 |  Mexico |
| 16 |  Indonesia |
| 17 |  Netherlands |

| | |
|----|--|
| 18 |  Saudi Arabia |
| 19 |  Turkey |
| 20 |  Switzerland |
| 21 |  Poland |
| — |  Taiwan |
| 22 |  Sweden |
| 23 |  Belgium |
| 24 |  Argentina |
| 25 |  Thailand |
| 26 |  Austria |
| 27 |  Iran |
| 28 |  Norway |
| 29 |  United Arab Emirates |
| 30 |  Nigeria |
| 31 |  Ireland |
| 32 |  Israel |
| 33 |  South Africa |
| 34 |  Singapore |

| | |
|----|--|
| — |  <i>Hong Kong</i> |
| 35 |  Malaysia |
| 36 |  Denmark |
| 37 |  Philippines |
| 38 |  Colombia |
| 39 |  Pakistan |
| 40 |  Chile |
| 41 |  Bangladesh |
| 42 |  Finland |
| 43 |  Egypt |
| 44 |  Czech Republic |
| 45 |  Vietnam |
| 46 |  Romania |
| 47 |  Portugal |
| 48 |  Iraq |
| 49 |  Peru |
| 50 |  Greece |
| 51 |  New Zealand |

| | |
|----|--|
| 52 |  Qatar |
| 53 |  Algeria |
| 54 |  Kazakhstan |
| 55 |  Hungary |
| 56 |  Kuwait |
| 57 |  Ukraine |
| 58 |  Morocco ^[n 6] |
| 59 |  Ecuador |
| 60 |  Slovak Republic |

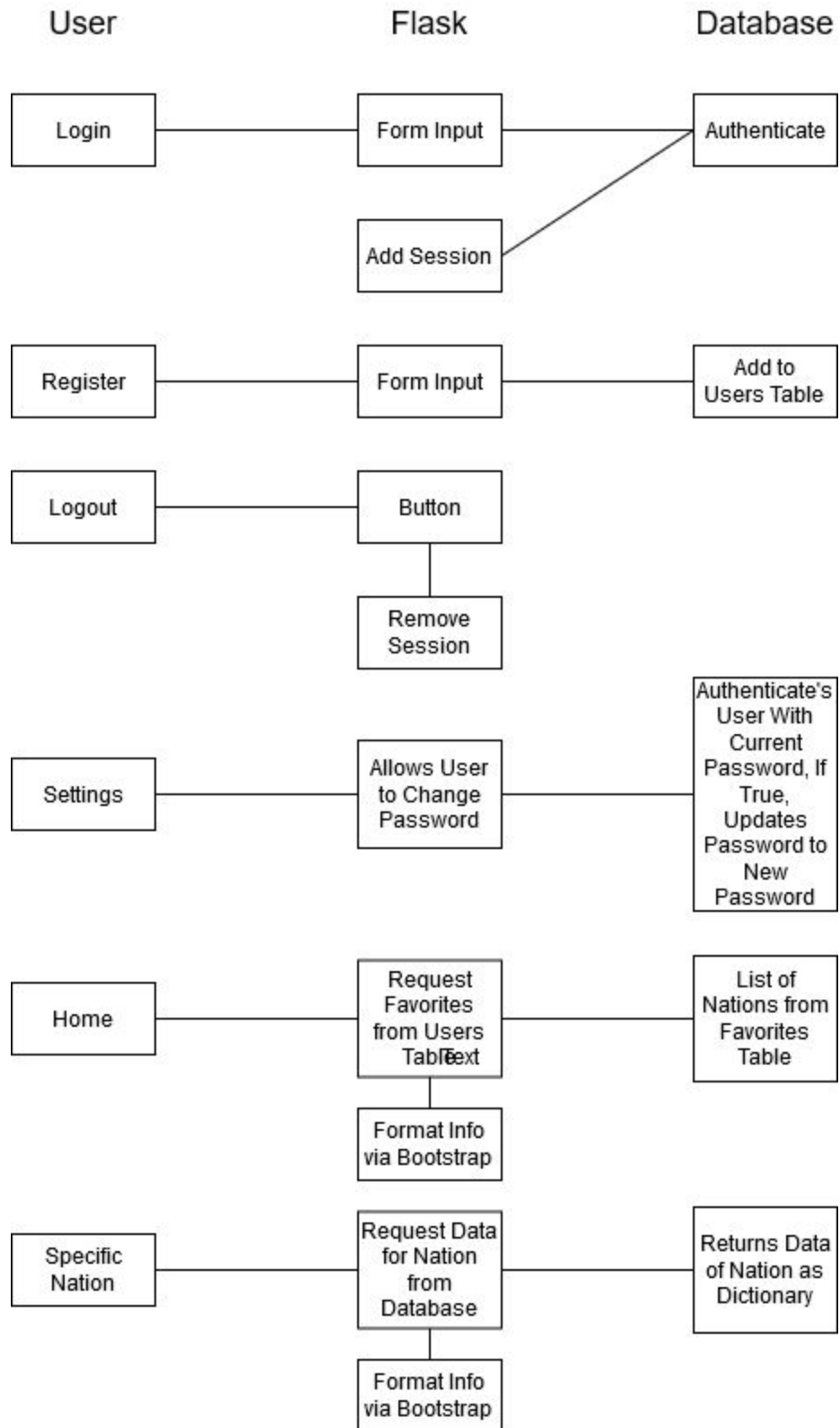
APIs

REST Countries

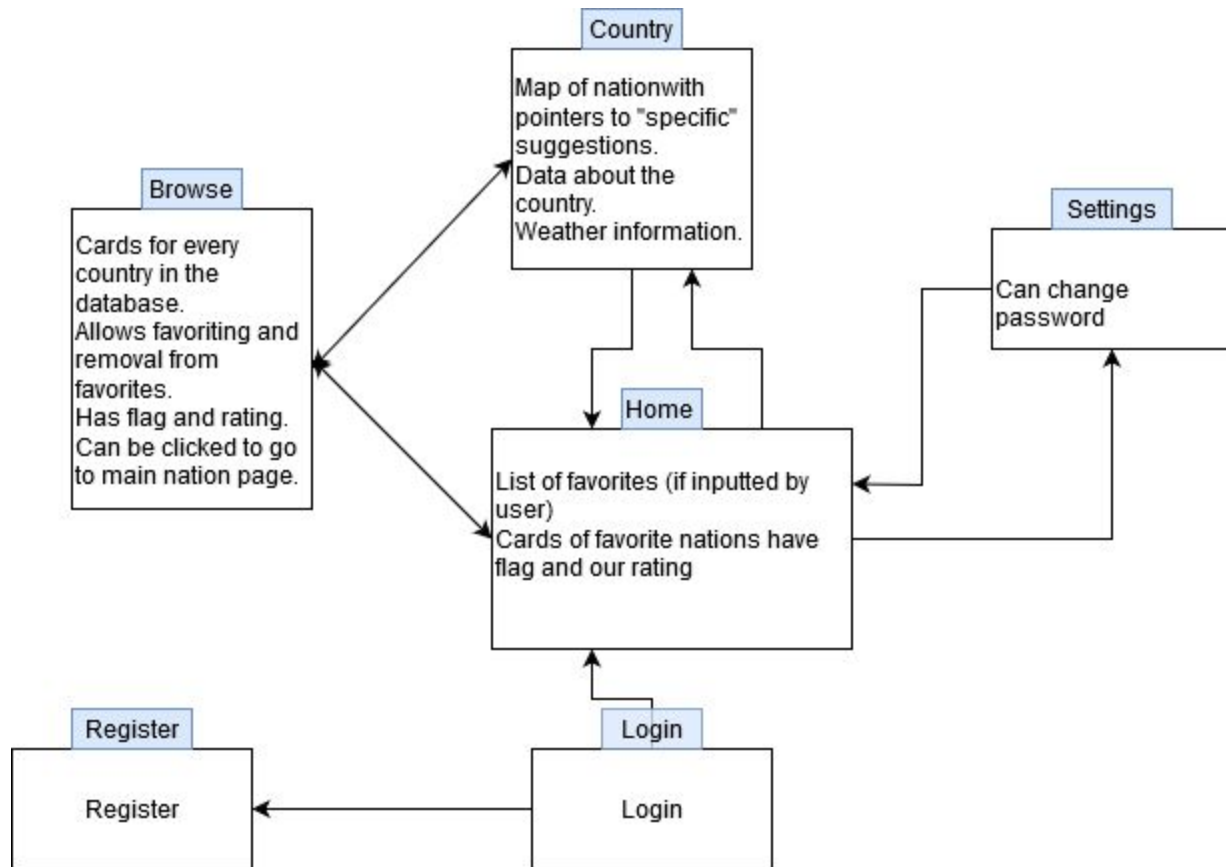
MetaWeather

LocationIQ

Component Map



Site Map



Database Layout

Nations - table holds the data needed for each country being featured. This includes information necessary to make API calls as well as information that is displayed through frontend.

Users - table holds the authentication data necessary to check users' login information and their favorite nations.

| users | | nations | |
|-----------|------|------------|---------|
| user_id | int | nation_id | int |
| username | TEXT | nation | TEXT |
| password | TEXT | code | TEXT |
| favorites | TEXT | rating | TEXT |
| | | flag | TEXT |
| | | capital | TEXT |
| | | population | INTEGER |
| | | area | INTEGER |
| | | nationlat | TEXT |
| | | nationlon | TEXT |
| | | capitallat | TEXT |
| | | capitallon | TEXT |
| | | zoom | TEXT |