Team Three Stooges

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

Project Name: Wack Travel Plans

Frontend framework: BOOTSTRAP (because there are more tools available to use and is better 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

Tentative 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 password
    - Checks if username or password 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
    - Able to sign out
        - Redirects to /login
        - Removes session data for user
    - List of favorited countries with stats that could update with each refresh, like weather for example
- /settings
    - Toggles allowing location tracking or not
    - Save favorite nations
- /browse
    - Search bar for filtering nations
    - Criteria like average rating and travel time
    - Has buttons for each individual nation, but each nation is sifted into one of three categories for danger to Americans:
        - Vanilla(green)
        - Spicy(yellow)
        - North Korea(red)
- /<nation>
    - Depends on the GET request received from whichever button was pressed
    - Contains API-retrieved data for every nation on the website
    - Perhaps we would write our own humorous descriptions for each country?
    - Possible candidates for display data are:

- Pollution
- Crime
- Weather
- Human rights records
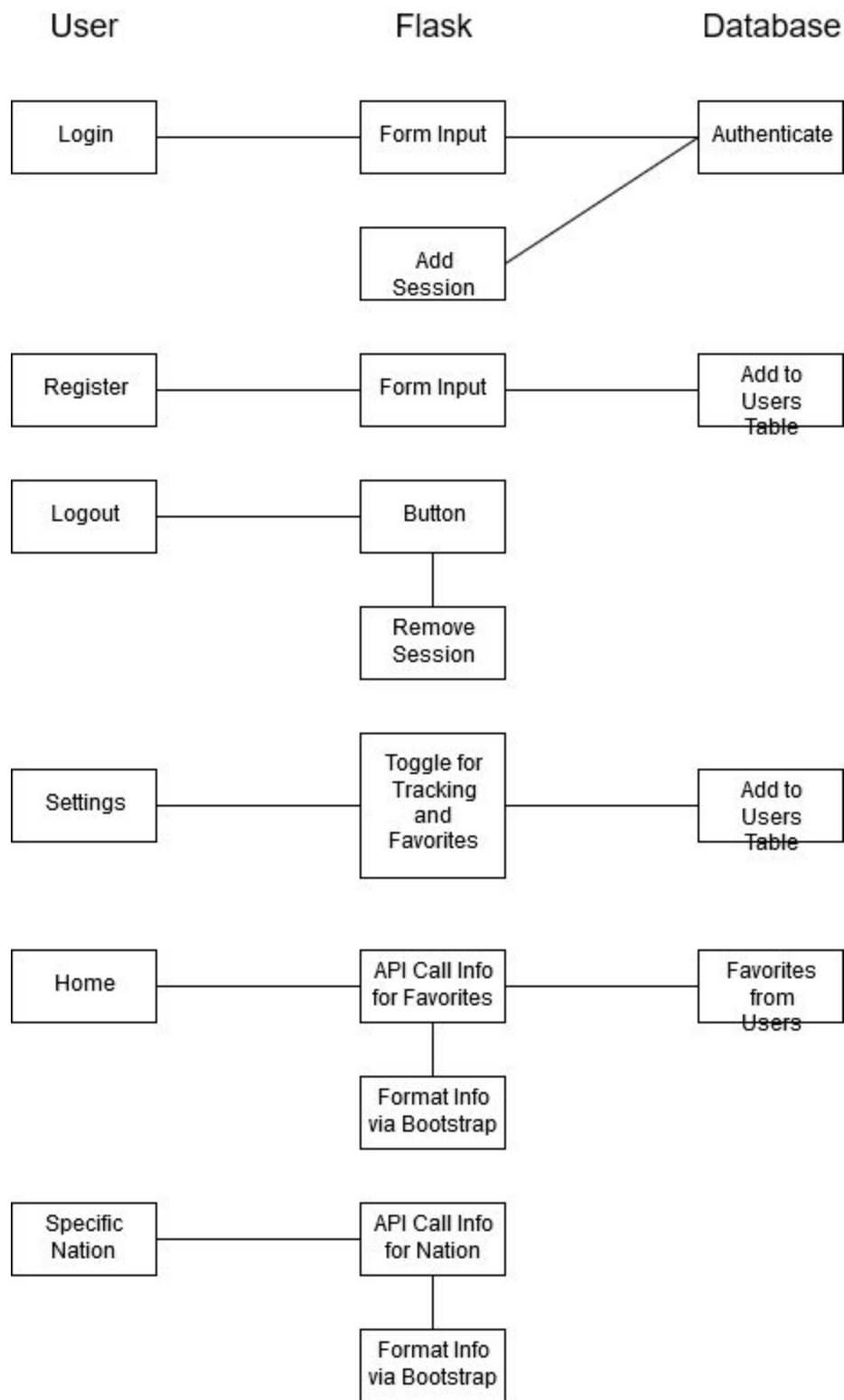- etc

Potential APIs
Forecast.io
LocationIQ
IP Location
Yelp
UNdata

<u>Component Map</u>

User	Flask	Database
Login	Form Input	Authenticate
	Add Session	
Register	Form Input	Add to Users ~~Table~~
Logout	Button	
	Remove Session	
Settings	Toggle for Tracking and Favorites	Add to Users ~~Table~~
Home	API Call Info for Favorites	Favorites from ~~Users~~
	Format Info via Bootstrap	
Specific Nation	API Call Info for Nation	
	Format Info via Bootstrap	

Site Map

Location

Provides information about that place (weather, businesses near you, stats if available)

Country

Background of map of country, where the user can click on their location

Settings

Can set IP address and favorites
Can change password

Search

Can put filters on where they want to go (rating, distance, etc) and then choose one

Home

List of favorites (if inputted by user)
List of all countries by level of "danger" or something fun like that
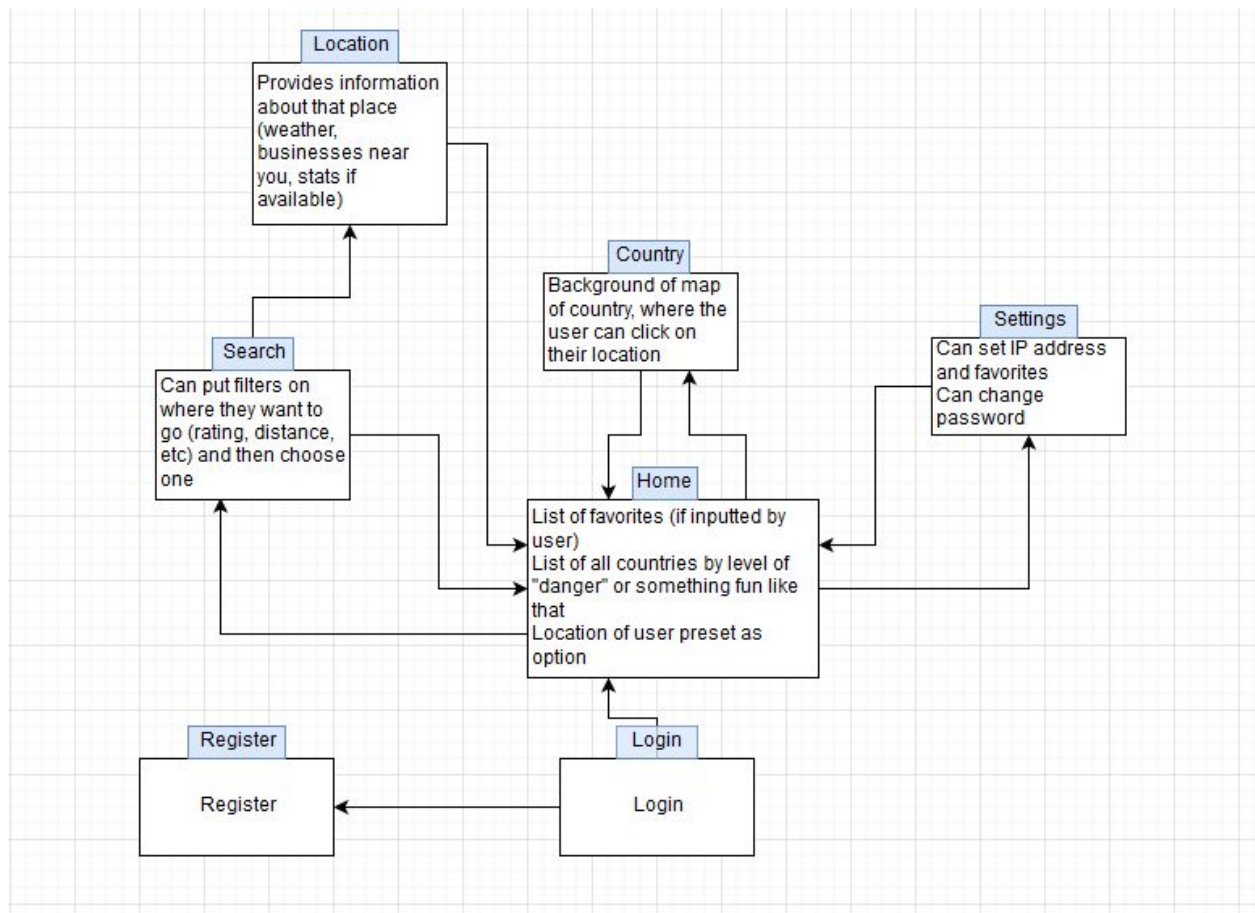Location of user preset as option

Register

Register

Login

Login

Database Layout

Nations - this table holds the data needed for each country being featured. There will be three tiers of danger. More columns may be added in the future.

Name	Danger	Designated coordinates
"The Democratic Republic of the Canada"	"Vanilla"	(0,0)
"True Korea"	"North Korea"	(180,180)
"Czechoslo-India"	"Spicy"	(4,20)
... (TEXT, UNIQUE)	... (TEXT)	... (UNIQUE PAIR OF INTS FOR LATITUDE AND LONGITUDE)

Users - this table holds the authentication data necessary to check users' login information

Username	Password	Favorites	Allow IP location tracking? Y/N
"CobyEatsHorseMeat"	"dontTellMyWife"	"True Korea"	Y
"PETAisONyourBUTT"	"passableword"	"Czechoslo-India", "The Democratic Republic of the Canada"	N
... (TEXT, UNIQUE)	... (TEXT)	"True Korea", "True Korea", "True Korea"	... (BOOLEAN)