Happy Meal: Craig Chen(PM), William Guo, Nada Hameed, Erica Li
Target Ship Date: May 26th, 2023

Idea :) !

- Coffee Consumption & Production
    - https://www.kaggle.com/datasets/yamaerenay/ico-coffee-dataset-worldwide
    - Coffee Production (1991-2020) - Data from ICO | Kaggle

-> 17 Important Data Visualization Techniques | HBS Online
- bar graph (each country export volume)
- pie chart
- choropleth map (of world?)

Program Component:

- HTML/CSS/JS Scripting
    - Templates to be served to the Flask app
- Python Files
    - Flask app that runs the whole thing
        - Our web server and delivery framework
        - Utilizes database functions
        - Calls from APIs
- Backend databases
    - SQLite

Component Relations:

- Home page where the data set is presented using data from the databases (world map of coffee consumption)
    - Click on country that redirects to another page that shows consumption by year in a bar graph and pie chart

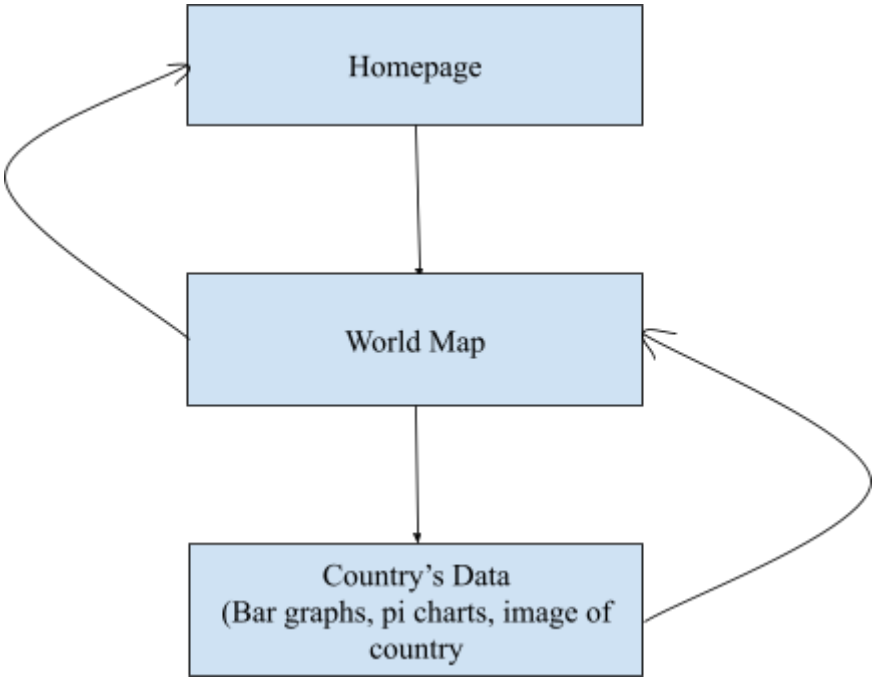
- Search option that allows users to find coffee shops nearby through APIs

Database Organization:

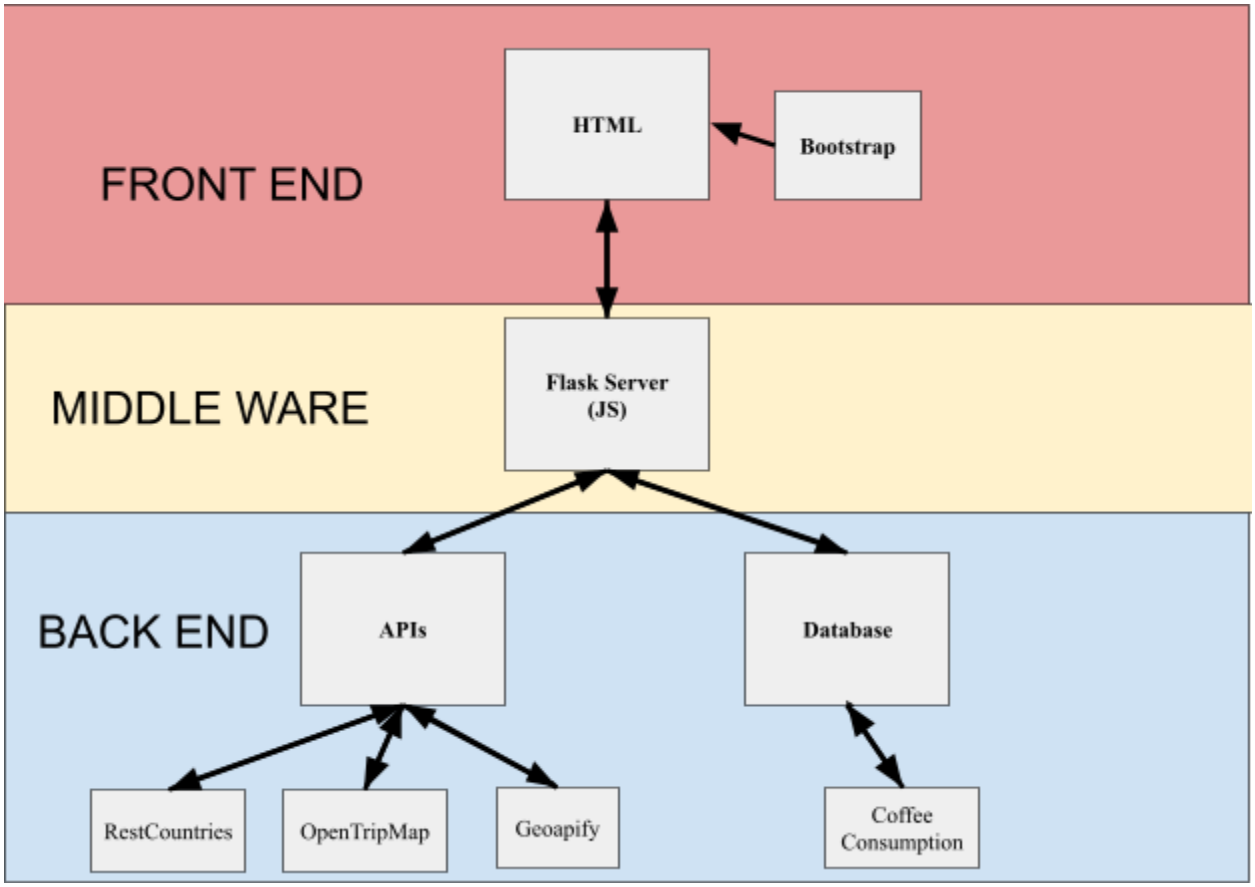
- Table with 3 rows
    - Country where the coffee is exported
    - Amount of coffee exported in thousands of 60kg bags
    - Year of export

Country	Amount Exported	Year

Front-End Site Map:



Component Map:



APIs:

- Geoapify: Pulls a static image of a specified location
- RestCountries: Gives a specific country's population, currency, language, capital
- OpenTripMap: Returns a list of places with addresses based on a location, type, etc (in our case: coffee shops)

FeF Used:

Bootstrap because of its comprehensive labeling as well as the ability to organize our pages with the nav bars.

Task Assignments:

- Craig: API & Flask app
- Erica: HTML/CSS work
- William: JS visualization
- Nada: databases

TED TOPICS possibly used and why:

- Python Pandas (has a lot of built in data visualization too