Project FTC Web App  
CIS 598 – Computer Science Project  
Initial Writeup and Feature List

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(*your advisor must agree to supervise your project before submission)*

# Overview

I am working with the sensitive federal trade commission, FTC, data. The FTC data contains every information of imports and exports for every country. This dataset generally categories products each country trades, who trades with who, what product each a country trades, and when the trade occurred. The dataset is important since it allows the common people to understand the political consequences of international trade. Understand the international trade will help common people to understand the good and services prices in an international level as well as domestic level.

With this sensitive data it is important to visualize the said data to understand how different countries trade with each other. To achieve this goal, I am planning to create a small web application using python to show this data. As of this time the main library I am planning to use is plottly to visualize the information.

## Problem/Solution

The problem I am trying to solve is finding a way to actively visualize the data. To achieve the said goal, I am planning create a web app to clearly show the visualization as an online dash bord.

## Algorithmic Functionality

My web app has to contain a sorting algorithm and classification algorithm.

## Qualifications

My qualification for this project is that I took a class with Dr.Hsu which takes about managing and analyzing the data with visualization. I also took a web development course, CIS, with Dr. Bean.

# Feature Lists

## Minimum Viable Product (MVP)

1. Have a map on my web page
2. Add button to filter based on product
3. Create an informational visual to show the country products they trade

## Version 1.0

1. Add more buttons for sorting
2. Create an informational visual to show the countries products they trade
3. Create AI for classification

## Version 2.0

1. Present in Lawrence
2. Visually show the intensity of trade between different countries.
3. Make the web app better
4. Use react for the web application