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CSC 415-02

Assignment 2B

VM username: student1@csc415-server33.hpc.tcnj.edu
VM pass: Operator02!
path: /home/student1/vm-csc415/OpenSourceSoftware
Github repo: https://github.com/dhayalytcnj/OpenSourceSoftware

Option 2: Visual Outlook into Racism & Poverty in NJ

This project's focus is on putting some visibility on the racism/prejudice side of poverty. This is to be accomplished by implementing NJ Census data going back up to the past few years, display that data through an interactive NJ county map, and providing viewers with ways to help with the issue. The reason I chose this method is to deal with the fact that people tend to focus on poverty at face value, but don't see the underlying causes or issues that are presented within it, racism being one of them.

The end result is to have 2 components:
1. Display the correlation of poverty and ethnicity via an interactive NJ county map to select county of choice, and visually communicate the data of that county on ethnicities in poverty.

2. Present ways for the user to assist in this issue, such as contacting county officials via template petition email and donation options for existing organizations that deal with poverty.

I will be utilizing gems such as FusionCharts for assistance in creating the map and charts, and Spreadsheet for dealing with excel files (if needed). Other than that, I'd be web-crawling and scraping data from US Census site, and inserting that data within 2D arrays or hashed arrays, since I would only need data for each county, in which each county could be a row. Most of this will be done in methods.

Proposed Timeline:

Part	Due Date
Code webcrawler, scraper, & basic data analysis portions in arrays / hashed arrays	3/10/21
Learn Rails	3/15/21
Develop visual charts	3/27/21
Develop NJ county map	4/5/21

Add email petition to each county's office & donation to poverty organizations options	4/12/21	
Debug and finalize	4/19/21	

Use Case Diagram: