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Innovation-Software Engineering Project Specifications

Project Title: ConCensus

Github: <https://github.com/kimc16/ConCensus>

Description of Problem: Census data that is published every year are all available for governments to use, but the data is not published in a format that is easy to read or understand. In addition, much of the Census Data visualization is focused on Federal and State level data, but there aren't many visualizations of municipal level Census data.

Objective of Project: Create a web application that visualizes census data for municipalities in New Jersey.

Value of Project: This web application will provide local governments with important visualized data to allow them to see trends and to identify problems that may have been sustained or increased year after year. Local governments will be able to make important decisions for their cities and towns after viewing this data. Residents will also be able to use the web application in order to see what their town/city is like and what changes need to be made based on the data.

Stakeholders in Project: Sustainable Jersey, Randy Solomon, Calvin Kim, Lisa Walker, Danielle Pernice, Russell Vancleve, Sarem Shalforoosh, Teeghen Haer, Residents, Municipalities, and State Government.

Similar Systems/Why ours is Different: Gov Pilot is another web application that provides data for municipalities that run on a subscription-based service. Our web application is different because we provide visualized data that is open to all users of the application.

Innovative Aspects: Census data visualization is mainly done for federal/state-level data sets. Not many services are focusing on data for municipalities. In addition, we will use innovative frameworks like the React JS framework in order to visualize data in a unique way. Users will be able to customize their visualization experience and select what types of graphs the data will be viewed in.

Technologies/Concepts to be learned: Rails, React, Javascript, HTML, CSS, Github, Ruby are all technologies that need to be learned. A free tutorial on Rails/React web development will be followed in order to understand the fundamentals of web development and the MVC model. Github will be learned as we create the application and share our work with one another.

Use Case Diagram:

