

# Team 17 - COVID-19 Restaurant Precautions

## Project Proposal and Plan

### 1. Introduction

#### 1.1 Project Overview and Statement of Proposal

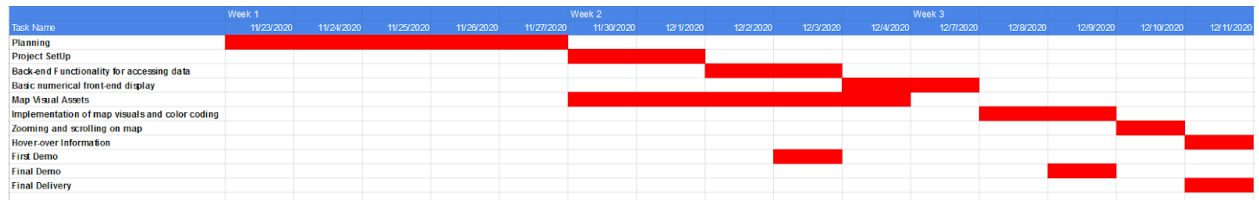
Within the United States poverty is an ever-present issue. Many charities and organizations do their part to support these populations through more funding and support is always needed. To help the wider public gain awareness to these issues we intend to create a visualization tool that leverages the US census database on household income. Our target users would be active internet users who may want to volunteer for a charitable organization and those with spending money that would be willing to donate to charitable causes. This project would allow a user to view data on poverty rates within their state and potentially county through an intuitive visualization.

#### 1.2 Project Scope and Objectives

For this project we intend to create a MVP that contains data on North Carolina and the counties therein. For each county we would like to collect the average poverty rate and use that data to color code each area on the map.

### 2. Plan

#### 2.1 Timeline Chart



#### 2.2 Task Descriptions

Planning - Finish planning aspects of project.

Project Set-Up - Set up the project environment and database connection.

Back-end Functionality for data access - Set up back-end methods and functionality for accessing and organizing data.

Basic Front-End - Simple numerical list display of information taken from database.

Map Visual Assets - Art for the map visualization.

Implementation of Visuals - Transfer the data being displayed onto the map visuals and set individual county colors based on data.

Zooming and scrolling - Allow the user to zoom and pan around the map.

Hover-over Information - Display numerical data and county names when hovering over.

#### 2.3 Resource Table

Task	People	Hardware & Software	Special
Planning	All	Trello/Google Drive	N/A
Project Set-Up	Spencer Jackson	Pycharm/Database	N/A

<b>Back-End functionality</b>	<b>Spencer Jackson</b>	<b>Pycharm/Database</b>	<b>N/A</b>
<b>Basic Front-End</b>	<b>Chris Fong</b>	<b>Pycharm/Database/HTML</b>	<b>N/A</b>
<b>Map Visuals</b>	<b>Christopher Dean</b>	<b>GIMP/Photoshop</b>	<b>N/A</b>
<b>Implementati on of Visuals</b>	<b>Paul Craft</b>	<b>Pycharm/Database/HTML</b>	<b>N/A</b>
<b>Zooming and Scrolling</b>	<b>Paul Craft</b>	<b>Pycharm/Database/HTML</b>	<b>N/A</b>
<b>Hover-over Info</b>	<b>Chris Fong</b>	<b>Pycharm/Database/HTML</b>	<b>N/A</b>

### **3. Project Resources**

#### **3.1 Group Members**

1. Paul Craft
2. Christopher Dean
3. Christopher Fong
4. Spencer Jackson

#### **3.2 Hardware and Software Resources**

Python, Pycharm IDE, Yelp Open Datasets, Browser Dev Tools (chrome/firefox/etc.), Gimp/photoshop

#### **3.3 Special Resources**

N/A

### **4. Appendices**

The initial plan and final implementation may vary from what is described as we move forward with the planning process.