2-C: Analysis & Design

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 $VM\ username:\ student 1 @csc 415-server 33.hpc.tcnj.edu$

VM pass: Operator02!

path: /home/student1/vm-csc415/OpenSourceSoftware

Github repo: https://github.com/dhayalytcnj/OpenSourceSoftware

Use Case Descriptions

Use Case: Interact with each county

Primary Actor: Users

Goal in Context: Let users click any NJ county to see that county's graphical analysis based

on its data.

Preconditions: User is on the map page with the NJ map with counties

Trigger: User clicks on a county

Scenario:

• User is on NJ map page

• User clicks on a county

• Selected county links to a page with that county's graphical data and contact info for

that county's officials

Exception:

• Not on map page: get on map page

Priority: Essential

When available: First increment

Frequency of Use: Every time on map page

Channel to actor: Via map page

Use Case: Access contact methods for county officials

Primary Actor: Users

Goal in Context: Provides contact info for the specified county's officials

Preconditions: User clicked onto a county from map page

Trigger: Is on a county's data page

Scenario:

• User is on NJ map page

• User clicks on a county

• Selected county links to a page with that county's graphical data and contact info for

that county's officials

Exception:

• None?

Priority: Essential

When available: First increment

Frequency of Use: Every time on county page

Channel to actor: county is selected from map page

Use Case: See charts/graphs of data

Primary Actor: Users

Goal in Context: Provides visual analysis of county's data
Preconditions: User clicked onto a county from map page

Trigger: Is on a county's data page

Scenario:

- User is on NJ map page
- User clicks on a county
- Selected county links to a page with that county's graphical data and contact info for that county's officials

Exception:

• None?

Priority: Essential

When available: First increment

Frequency of Use: Every time on county page

Channel to actor: county is selected from map page

Use Case: Insert/Edit datasets used for each county

Primary Actor: Administrator

Goal in Context: Modify county datasets

Preconditions: Admin is within the repository location and in the program folder

Trigger: None

Scenario:

- Admin goes within dataset folder containing datasets and sourcecode
- Admin inserts new data or modifies existing datasets, and includes in the sourcecode

Exception:

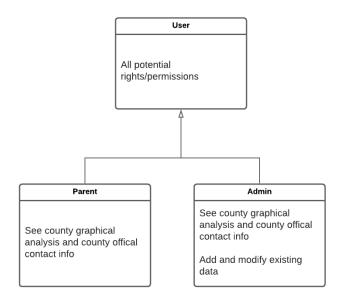
• None?

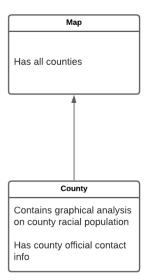
Priority: Essential

When available: When base program finished

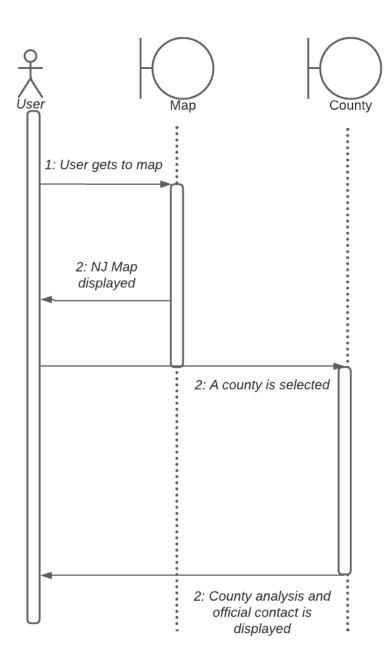
Frequency of Use: Whenever new data needs to be implemented or old data modified

Design Class Diagram

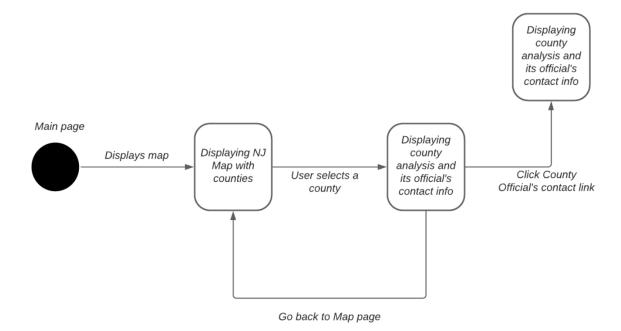




Detailed System Sequence Diagram



Statechart



Test Case Diagram

Functionality Tested	Input	Expected Output	Actual Output
Мар	load page, click a county	map should load, clicking a county should load a page with county info	
County data	Clicked a county from map	Page of the right selected county displayed, should have graphical analysis and county official's con- tact info	