**Project Structure**

Data (Folder)

* Excel File
* app.py

OpiodOverdoseStatsApi (Folder)

* flaskApi.py

OpiodOverdoseStatsApp (Folder)

* Dashboard.html
* App.js
* Style.css

**Tasks**

1. **app.py** => Python import Excel data file to MongoDb (State, Year, Month, Indiciator, DataValue)
2. **flaskApi.py** => routes to get data from mongo

*Routes*

* getDeathsCounts(state, year (optional), month (optional) – Chart 1
* getDeathCountsByState(state) – Chart 2
* getDeathCountsByYear(year, month) – Chart 3, Slide 2 Bubble Chart
* getDeathCountsByDrugs(Indicator, year, month) – Chart 4
* slide 2 – Bar and Line – categories = Indicator?

1. **OpiodOverdoseStatApp**

*Dashboard.html*

* + - Header – Opiod Overdose Statistics (2015 – 2020)
    - Row 1, Col1 (Chart 1 and Filters)
    - Row 1, Col2(Chart 2 and Filters)
    - Row 2, Col1 (Chart 3 and Filters)
    - Row 2, Col2(Slide 2 Bubble and Filters)
    - Row 3, (Span 2 Cols) – Chart 4 Heat or Map?

*App.js*

* + Use D3 and Plotly
  + D3 Events handlers (filters)
    - Load D3 by calling appropriate flask route and draw chart

*Style.css*