

## Injury Analysis

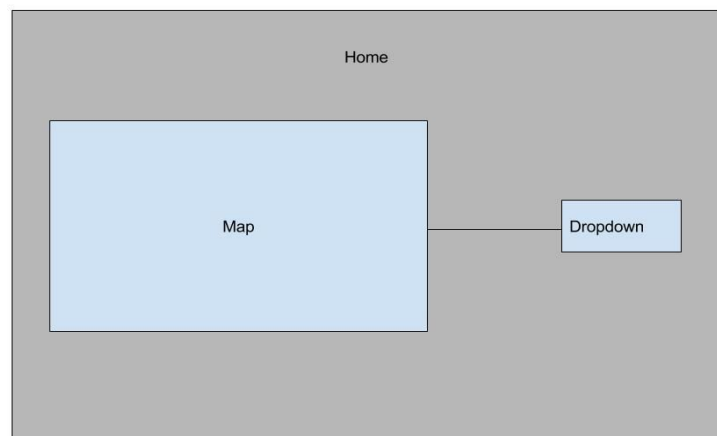
Team COAL - Daniel Chiu, Will Ostlund, Shaeq Ahmed, Kenneth Li  
Softdev Period 6 - Data Analysis Project

### COMPONENTS

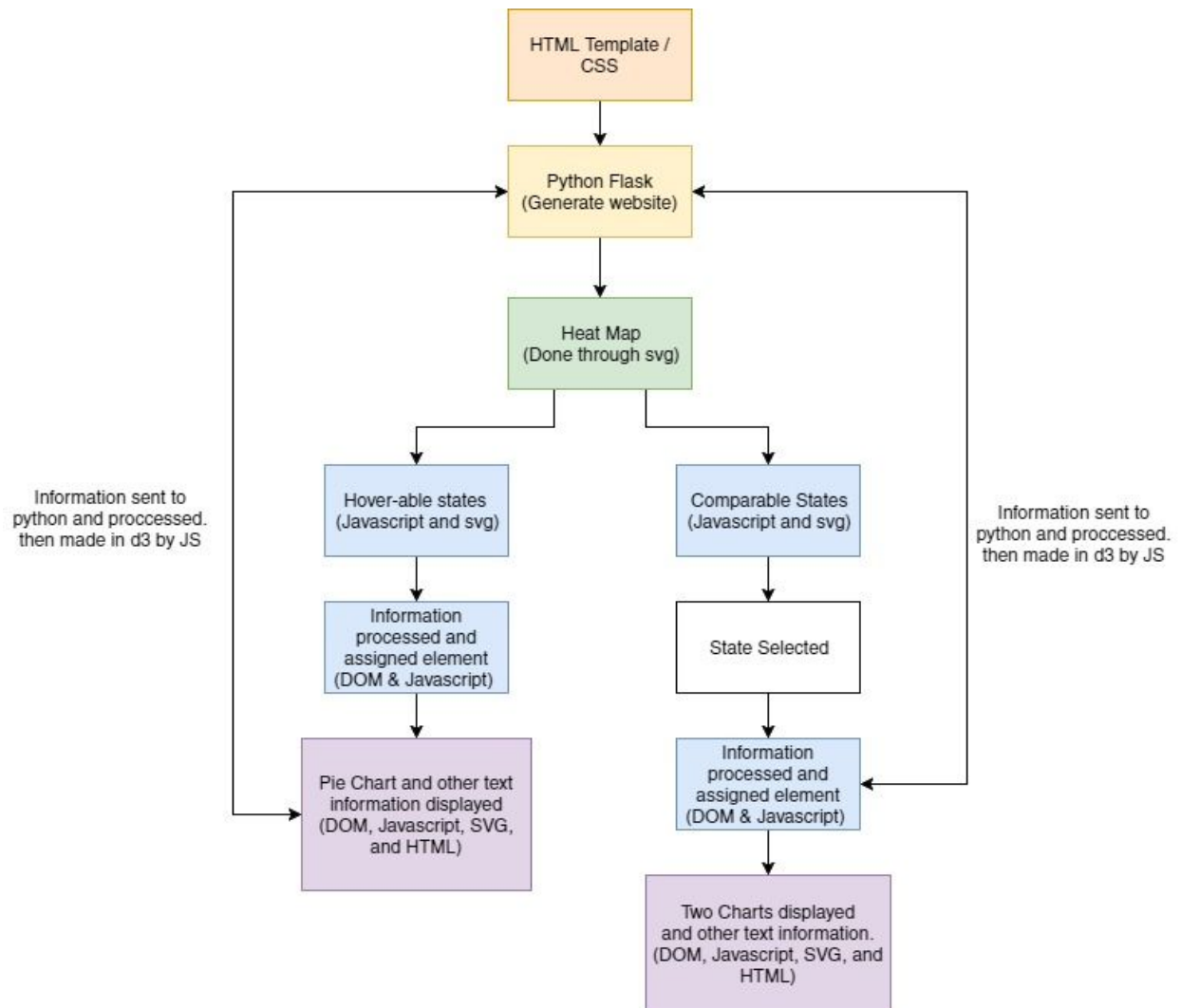
- Client side
  - Heat Map (using SVG)
    - US map broken down into states with different levels of color intensity for each state
    - Variable corresponding to color intensity can be selected from dropdown
      - Number of injuries
      - Average days of leave for injury
  - Hoverable states
    - Hovering mouse over each state will display a pie chart breaking down the types of injuries and their percentages
  - Compare states
    - Click on two states to compare selected statistics
  - Dropdown to select data to be displayed in state comparison
- Server side
  - Flask app with two routes
  - One route renders main site page
  - One route used for AJAX calls to fetch data
    - Data fetched using Python file provided by CORGIS

### SITE MAP

Site Map



## COMPONENT MAP



## TASK DELEGATION

Daniel Chiu - CSS styling / HTML template  
Shaeq Ahmed - Visual JS  
Will Ostlund - Python data aggregation / Flask  
Kenneth Li - D3 / Data processing JS

## TIMELINE

- 03-30
  - Working heat map
  - HTML template finished
  - Python Flask finished
- 03-31
  - Hoverable states working
  - Data retrieval working (get required information)
  - HTML for graphs finished
- 04-01
  - D3 implementation finished (data binding)
  - Data visualizations finished
  - Finish CSS styling
- 04-02
  - Debugging