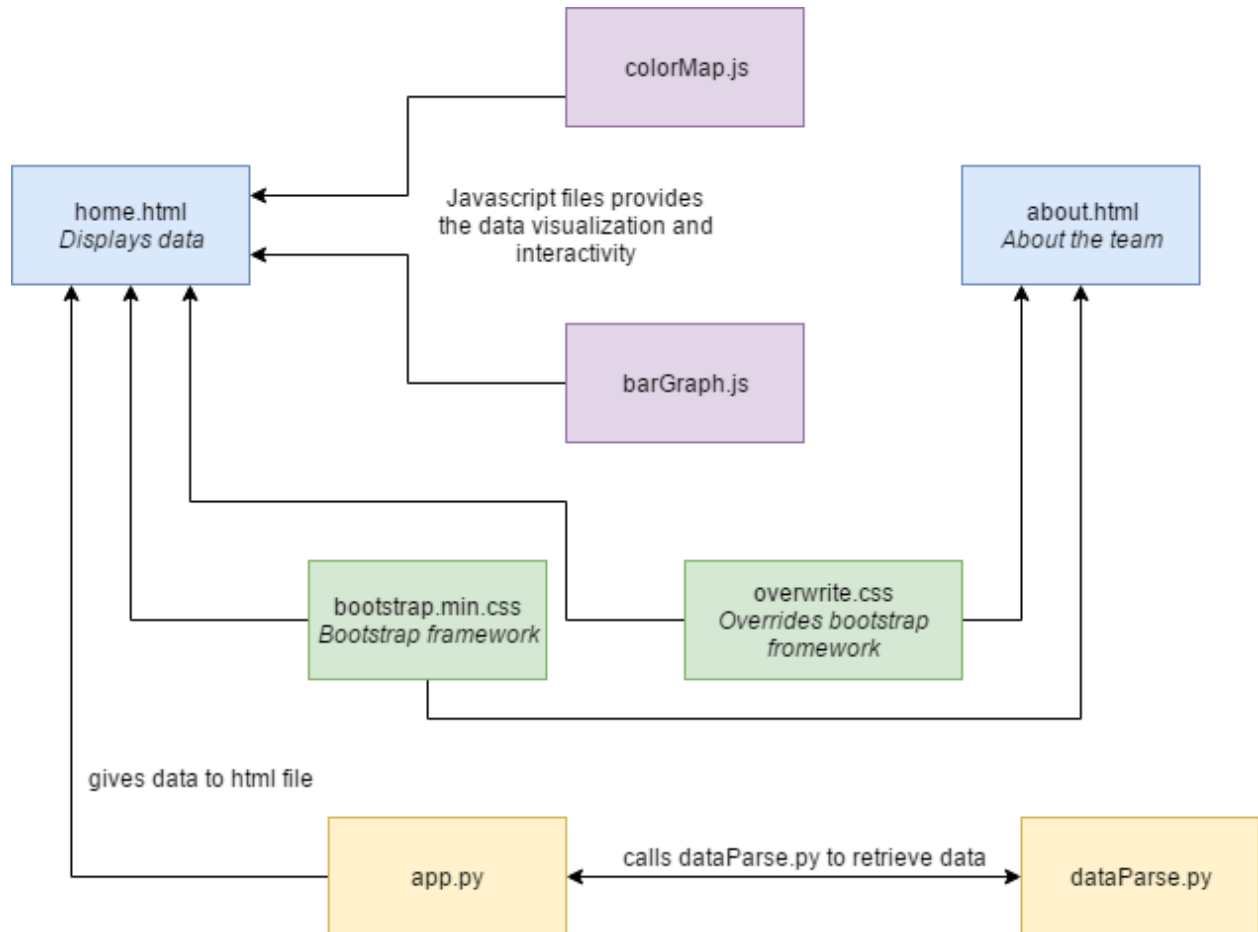


Lightsteelblue Menaces: Design Doc

Components



- `home.html`
 - Displays the data
- `about.html`
 - About
- `Bootstrap.min.css`
 - Bootstrap template
- `Overwrite.css`
 - For overwriting bootstrap
- `barGraph.js`
 - Javascript file for bar graph
- `colorMap.js`
 - Javascript file for color map
- `app.py`

- Uses dataParse.py to display data for home.html
- dataParse.py
 - Inputs data from the APIs into the MongoDB given a specific year/state

APIs:

<https://www.npmjs.com/package/billboard-top-100>

<https://developer.spotify.com/web-api/migration-guide/>

<http://www.last.fm/api>

Database

- MongoDB
 - *StackedBarGraph*
 - Year: {Genre: Percentage}
 - *ColorMap*
 - Year: {State: Data}

Estimated Timeline

- BackEnd
 - Find API (Richard, 3/28)
 - Flask Foundation (PChan, 3/29)
 - Data Parsing (Richard, 3/30)
 - Ajax (PChan, 4/1)
 - Ironing out Bugs (PChan, Richard; 4/2)
- FrontEnd
 - Basic Layout of HTML page (Yikai, 3/29)
 - StackedBarGraph (Zicheng, 3/30)
 - ColorMap (Zicheng, 4/1)
 - CSS (Yikai, 4/1)
 - Ironing out Bugs (Yikai, Zicheng; 4/2)

Roles

Patrick Chan (Project Manager) - Backend

- Flask App and Routing
- AJAX Integration and Data Retrieval

Richard Wang - Backend

- Data Parsing
- Find Data Sources

Yikai Wang - Frontend

- HTML/CSS Templates
- Organizing Pages, Simple UX

Zicheng Zhen - Frontend

- Dava Visualization
- Javascript/D3