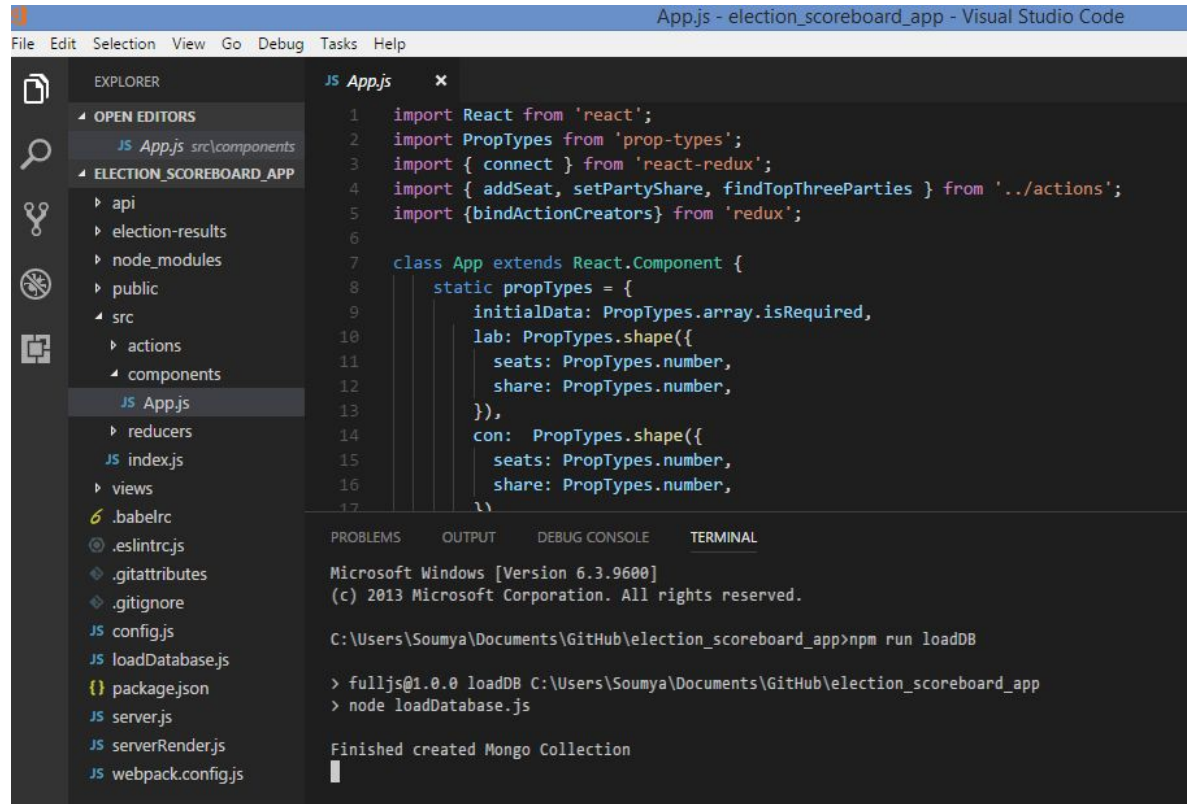


Installation Guide

- 1) Download the latest node version from <https://nodejs.org/en/download/>.
- 2) Election_scoreboard_app is a GitHub project.
 - a) If you choose to install GitHub desktop and Git Shell then the project could be downloaded using command “git clone https://github.com/soumya-sundar/election_scoreboard_app.git” in Git shell. GitHub downloads are available here - <https://desktop.github.com/>
 - b) If you choose not to use GitHub tools you could simply download and extract the project from the link - https://github.com/soumya-sundar/election_scoreboard_app
- 3) The App uses MongoDB hence MongoDB installation is essential. Downloads are available in <https://www.mongodb.com/download-center#community>.
- 4) After extracting the project, navigate to the project root path and locate package.json file. This file contains all the necessary libraries/packages to run the application. Using your preferred terminal (i.e., Git shell or cmd prompt) navigate to the project root path and run “npm install” command. After successful installation you will be able to find node_modules folder in the same path.
- 5) Run the following commands to start the application -
 - a) Start MongoDB server - “npm run mongo”
 - b) Load “Election-results” in MongoDB. A collection named ‘constituency’ will be created. This command should be run only once - “npm run loadDB”



The screenshot shows the Visual Studio Code interface for the 'election_scoreboard_app' project. The Explorer panel on the left displays the project structure, including folders like 'api', 'election-results', 'node_modules', 'public', 'src', and files like 'App.js', 'index.js', 'server.js', and 'webpack.config.js'. The main editor window shows the code for 'App.js', which imports React, PropTypes, and Redux, and defines a class component. The Terminal panel at the bottom shows the command prompt output for running 'npm run loadDB', which successfully creates the 'constituency' collection in MongoDB.

```
App.js - election_scoreboard_app - Visual Studio Code
File Edit Selection View Go Debug Tasks Help

EXPLORER
├─ OPEN EDITORS
│   └─ JS App.js src\components
├─ ELECTION_SCOREBOARD_APP
│   ├── api
│   ├── election-results
│   ├── node_modules
│   ├── public
│   └── src
│       ├── actions
│       ├── components
│       │   └─ JS App.js
│       ├── reducers
│       ├── JS index.js
│       ├── views
│       ├── .babelrc
│       ├── .eslintrc.js
│       ├── .gitattributes
│       ├── .gitignore
│       ├── JS config.js
│       ├── JS loadDatabase.js
│       ├── package.json
│       ├── JS server.js
│       ├── JS serverRender.js
│       └── JS webpack.config.js
└─ ...

JS App.js
1  import React from 'react';
2  import PropTypes from 'prop-types';
3  import { connect } from 'react-redux';
4  import { addSeat, setPartyShare, findTopThreeParties } from '../actions';
5  import { bindActionCreators } from 'redux';
6
7  class App extends React.Component {
8      static propTypes = {
9          initData: PropTypes.array.isRequired,
10         lab: PropTypes.shape({
11             seats: PropTypes.number,
12             share: PropTypes.number,
13         }),
14         con: PropTypes.shape({
15             seats: PropTypes.number,
16             share: PropTypes.number,
17         })
18     };
19
20     render() {
21         // ...
22     }
23 }
24
25 export default connect()(App);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\Soumya\Documents\GitHub\election_scoreboard_app>npm run loadDB

> fulljs@1.0.0 loadDB C:\Users\Soumya\Documents\GitHub\election_scoreboard_app
> node loadDatabase.js

Finished created Mongo Collection

As soon as the Mongo collection is created the process can be stopped.

c) Start Server side Node Express program - "npm run server"

```
C:\Users\Soumya\Documents\GitHub\election_scoreboard_app>npm run server  
  
> fulljs@1.0.0 server C:\Users\Soumya\Documents\GitHub\election_scoreboard_app  
> nodemon --exec babel-node server.js --ignore public  
  
[nodemon] 1.14.11  
[nodemon] to restart at any time, enter `rs`  
[nodemon] watching: *.*  
[nodemon] starting `babel-node server.js`  
Express listening on port 3000 and host 127.0.0.1
```

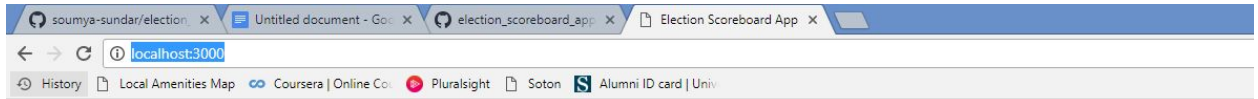
d) Start Client side program - "npm run client"

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL  
  
Webpack is watching the files...  
  
[BABEL] Note: The code generator has deoptimised the styling of "C:/Use  
om.development.js" as it exceeds the max of "500KB".  
Hash: 39f224bd9a0ed0be6f43  
Version: webpack 3.10.0  
Time: 16675ms  


| Asset                            | Size           | Chunks            | Chunk Names |
|----------------------------------|----------------|-------------------|-------------|
| <b>bundle.js</b>                 | <b>2.11 MB</b> | 0 [emitted] [big] | main        |
| [24] (webpack)/buildin/global.js | 823 bytes      | {0} [built]       |             |
| [29] ./src/index.js              | 814 bytes      | {0} [built]       |             |
| [60] (webpack)/buildin/module.js | 521 bytes      | {0} [built]       |             |
| [69] ./src/reducers/index.js     | 7.5 kB         | {0} [built]       |             |
| [71] ./src/actions/index.js      | 458 bytes      | {0} [built]       |             |
| + 67 hidden modules              |                |                   |             |


```

6) Open <http://localhost:3000/> in your browser.



UK Election Scoreboard Application

Scoreboard

Party Name	Share of vote	Seats won
Labour	0%	0
Conservative	0%	0
Liberal Democrats	0%	0
Plaid Cymru	0%	0
UK Independence Party	0%	0
Green Party	0%	0
Scottish National Party	0%	0
Scottish Socialist Party	0%	0
Independent Kidderminster Hospital and Health Concern	0%	0
Respect-Unity Coalition	0%	0
Sinn Féin	0%	0
Social Democratic and Labour Party	0%	0
Democratic Unionist Party	0%	0
Ulster Unionist Party	0%	0
Workers' Party	0%	0
VFY	0%	0
Independent Party	0%	0
Others	0%	0



Click on the play button to start processing the election results.



UK Election Scoreboard Application

Scoreboard

Party Name	Share of vote	Seats won
Labour	53.69%	349
Conservative	32.31%	210
Liberal Democrats	9.54%	62
Plaid Cymru	0.31%	2
UK Independence Party	0%	0
Green Party	0%	0
Scottish National Party	0.92%	6
Scottish Socialist Party	0%	0
Independent Kidderminster Hospital and Health Concern	0.15%	1
Respect-Unity Coalition	0.15%	1
Sinn Féin	0.77%	5
Social Democratic and Labour Party	0.46%	3
Democratic Unionist Party	1.38%	9
Ulster Unionist Party	0.15%	1
Workers' Party	0%	0
VFY	0%	0
Independent Party	0%	0
Others	0.15%	1

Top three parties

Party Code	No. of seats
lab	349
con	210
ld	62
Others	29

Party [lab] won with absolute majority.