Merquery
Software & UI Prototype

Team Green

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1. Prototype

Prototype will be shown to our TA, Prabhu, during office hours in week 8 and 10.

2. URL to the Source Code

https://github.com/inf191-viant/DataExplorationTool

3. Brief Explanation

Our final software is intended to function as a web tool that filters data based on user input and displays the data either as a list of data points or as a profile for an individual.

Currently, we have an interface for our data exploration tool. We have four main things in our directory: CSS folder, fonts folder, JS folder, and index.html. The template used is the Dashboard example provided by Bootstrap. Most of the files in the CSS, fonts, and JS directory are from Bootstrap. The main CSS file we are using to style our page is the stylesheet.css file. We have a number of files in the JS directory which we have written.

The JS files are designed to be intelligent - if the sponsor was to change the database that it draws information from, it will be able to adapt dynamically to accommodate the changes. In that case, we expect the schema of the data to change. Our code should have a function that pulls the schema from the datasource.js and creates the left navigation bar accordingly. In addition, there should be a function that facilitates a popup appearing with profile details whenever the icon next to the last name, device, or IP address fields are clicked.

We are able to run queries in the left navigation bar. The user can search by clicking the search button or pressing enter. We are running a SQL statement from which we draw information to build our left navigation bar. By matching the schema's properties with the data we get from GBQ, we can then push the values to an array. Ultimately with the headers and data appended, we can now create a table in the main screen. After the table is created, we have another function for traversing which can query the presented data by string typed values such as city, email, etc.