Front-End Portfolio

By Michael Ong Ming Hao

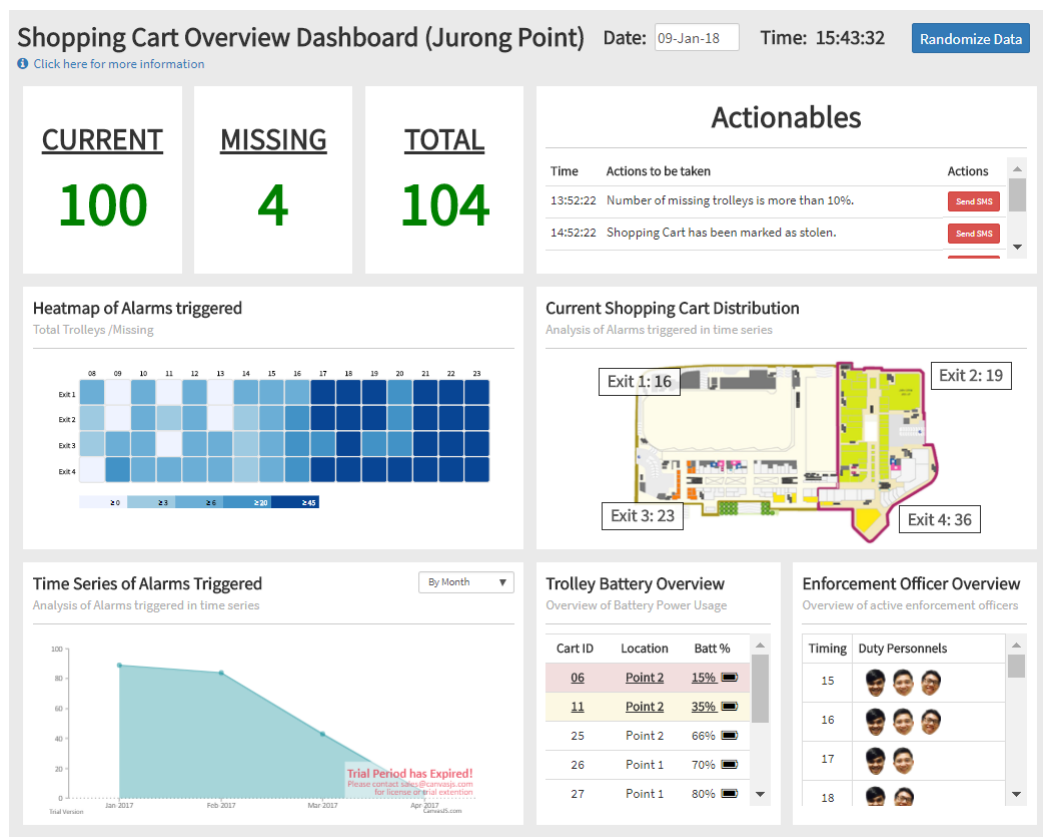## Shopping Trolley Misuse Monitoring Dashboard

Project Page: http://www.datayse.com/my_projects/2017/04/10/IOT-shoppingcartDashboard.html

Description

My team created an application using Internet of Things (IoT) to solve the issue of unreturned shopping carts. My role as the Front-end developer and UX designer was to create an intuitive shopping cart monitoring dashboard for its users and notify them if there someone was going to take a shopping trolley out of a shopping mall. I managed to create a prototype for the users to test and tweaked the dashboard according to their feedback and learnt a lot about UX design and dashboard visualisation

Tools Used: Java, HTML/CSS, JavaScript, jQuery, MySQL, D3.js.

Visualisation: https://michaelomh.github.io/Iot_dashboard/
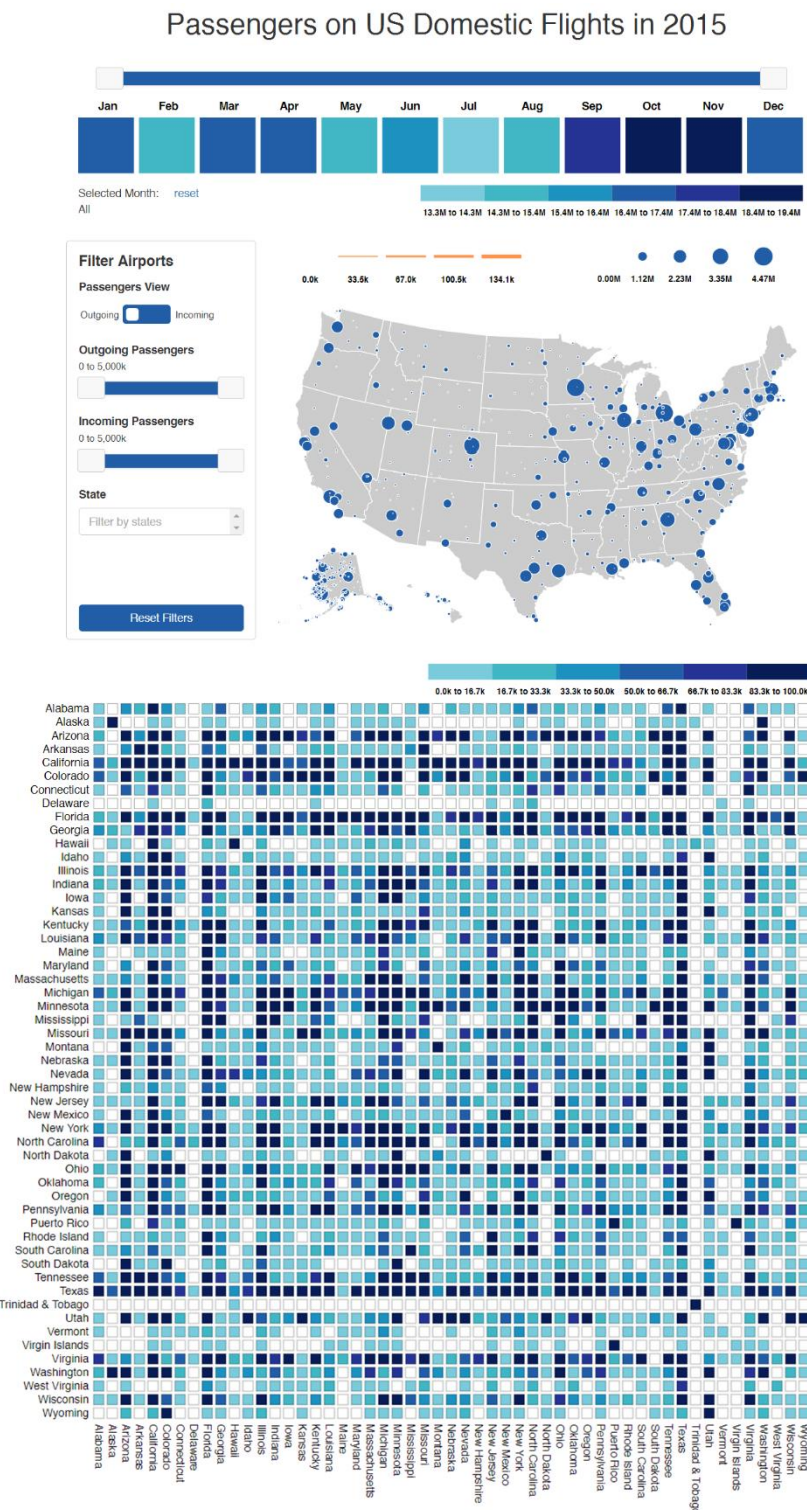
Visualising US Domestic Flights in 2015

Project Page: http://www.datayse.com/my_projects/2017/01/29/VisualisingPassengers-within-US-in-2015.html

Description

I created an interactive visualisation of the number of passengers travelling within United States. The visualisation allows you to visualise the number of passengers a month, the more popular states, more popular routes and the detailed breakdown of how many passengers travel to and from each state via a co-occurrence matrix.

Tools Used: Python (Data Cleaning and Exploratory Analysis), HTML/CSS, JavaScript, d3.js

Visualisation: https://michaelomh.github.io/VAFinalProj/

SMUBIA Live Analytics Dashboard

Project Page: http://www.datayse.com/my_projects/2017/08/12/SMUBIA-Live-Analytics-Dashboard.html

Description

A dashboard showing a live visualisation of students who are joining SMU Business Intelligence and Analytics Club (SMUBIA). The data is obtained directly from Google Sheets, and updated in 5 seconds intervals. This dashboard is mobile friendly and responsive to whatever resolution. This dashboard was shown during Singapore Management University's CCA Fair. As a result of the various marketing strategies and this real time dashboard, we have reached a total of 250-member sign ups as a result.

Tools Used: HTML/CSS, JavaScript, jQuery, Adobe Photoshop, Google Sheets APIs