

5/17/2020, Treyvion Johnson

## Project Proposal: **My Drop List**

### **Project Summary:**

The goal of this application is to increase the average warehouse employee's communication, and efficiency, by eliminating data inaccuracies and standardizing parts of their workflow. This application will also allow users to generate graphs and charts that will help management interpret information and draw conclusions to create strategies that will increase worker performance.

### **The Problem:**

Costco Wholesale is a retail warehouse that provides members with a variety of products. If an employee does not stock a product before the store opens, Costco loses out on potential sales of that product.

There are multiple reasons why products do not get stocked. One reason is because of miscommunication between stockers and forklift drivers. Stockers make a list of products(drop list) for a forklift driver to retrieve from storage. The drop list is written on paper and can be difficult or confusing to read. Because of this, forklift drivers will drop the wrong items, which causes delays within the stocker's workflow.

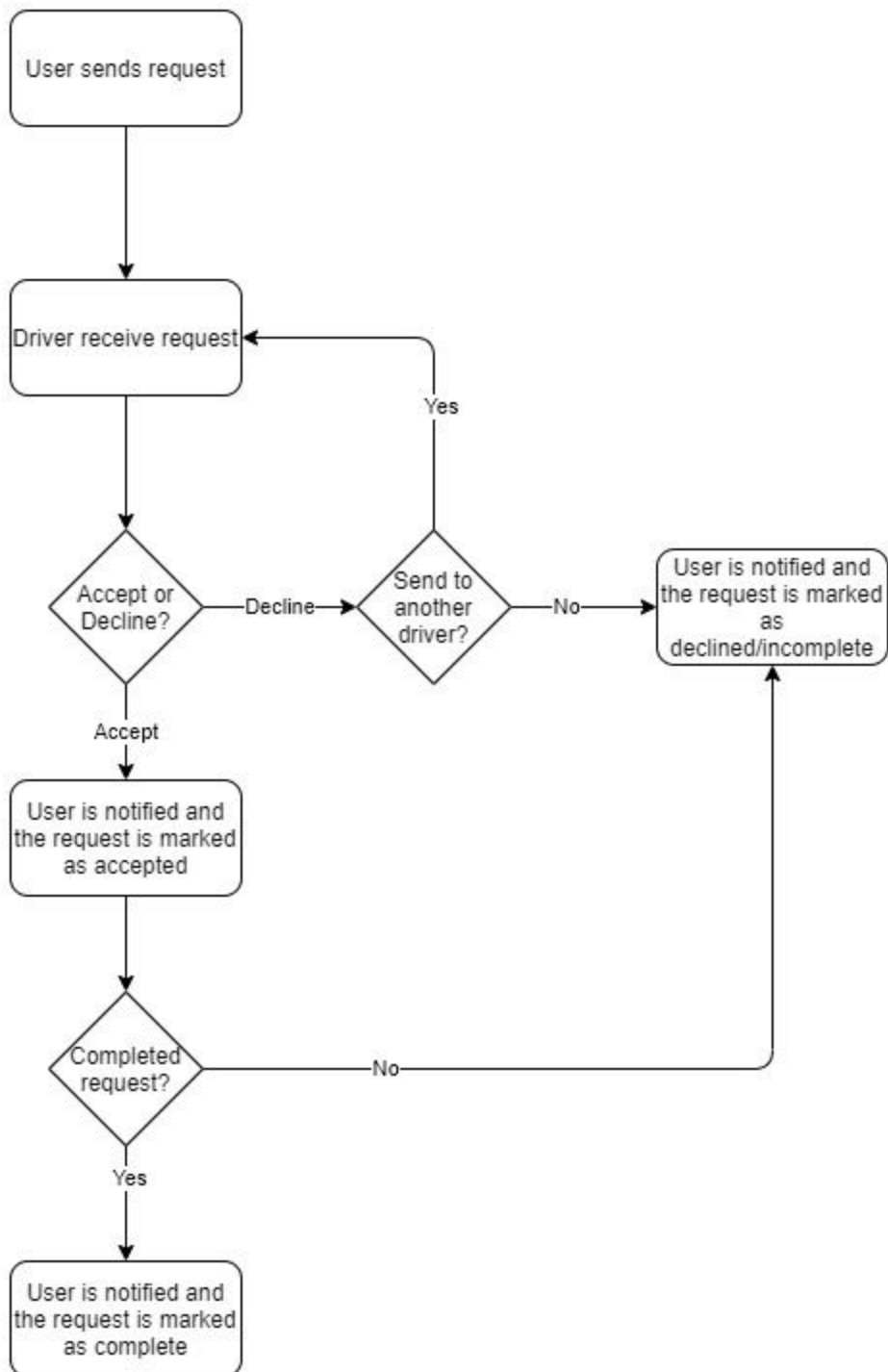
### **The Solution:**

This project will involve producing flexible web pages that will render on cellular and desktop devices with various screen sizes. The tools to build the Front-end will consist of HTML, JavaScript, CSS, BootStrap, and JQuery. The Back-end tools will be Python, Flask, and PostgreSQL.

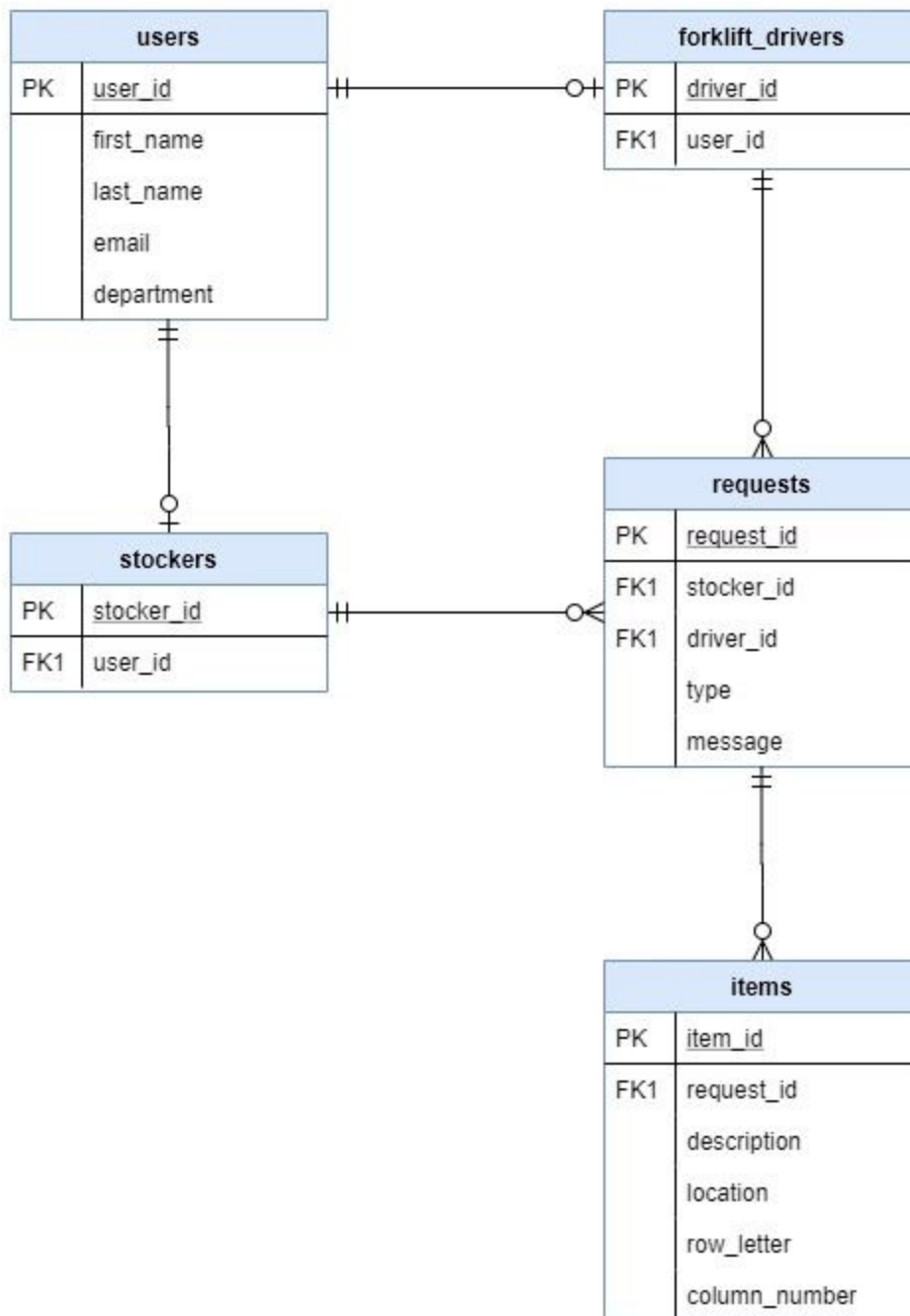
The application will signup users as forklift drivers or stockers. Stockers will have the opportunity to send requests to a forklift driver. The forklift driver can reject or approve the request. The request status will be labeled if the driver completes or fails to finish the task.

The completed and uncompleted requests' data will be sent to an API to generate charts and graphs. There are concerns about the API's online availability, and if it can create charts and graphs using requests' data.

User Flow:



## Database Design:



## Time Table:

<https://docs.google.com/spreadsheets/d/1HnECJTxRGAJM5TfmNZ8INOoaZw4SxkqEHbepCPkYD9k/edit?usp=sharing>

Stretch Goals:

- User online status (online, away, offline)
- Request expiration when not accepted or declined
- Forwarding requests to other drivers