Project 13 – Feet of Delivery and pick-up Vehicle management System

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1 The environment

Table 1.1: Programming resources

Python, Java Script
gedit
Eclipse
PostgreSQL
Bootstrap,
CSS, HTML
TexStudio
Git/Github

2 REQUIREMENTS ANALYSIS

- Make a website for managing delivery trucks:
 - * The website should serve as a management and tracking system for the fleet of vehicles
 - * There are two main types of users, the dispatcher and a driver
 - * Both types of users will use a desktop version of the website

- * The dispatcher should be able to see all available trucks and all non-available trucks and should enter the destination, type of goods, duration of trip and ultimately assign a driver to a destination
- * Algorithms for determining the driver, and other variables on the system should be researched/developed and implemented
- Find project data or make dummy data on fleet of delivery vehicles
- Design the back end structure and front end interface
- · Implement the design
- Unit test the system as progress is being made

2.1 BACK-END: LINDA, PHUMZILE

- make a database and populate it
- implement algorithms which can calculate things related to the front end, such as:
 - scheduling
 - capacity
 - goods transferred/pickup
- set up a server
- · link database to server
- link front end to server
- · write unit tests

2.2 FRONT END: KESSIGAN, SHEENA

- Make user interfaces for the different users
 - Choose a bootstrap template and make minor modifications
 - Plot the views and visualisations using JavaScript libraries such as d3, google charts, am charts on the template Users: For each user there is a User Interface based on the design:
 - * Program
 - * scheduling
 - * Dispatcher (inputs the variables so the algorithms can run and return a result)
 - * capacity
 - * goods transferred/pickup

- * location
- * Truck driver
- * schedule
- * goods transferred/pickup
- * location
- Write unit tests