

TAXI BOSS

CLIENT: EPI-USE (DJ JANSE VAN RENSBURG)

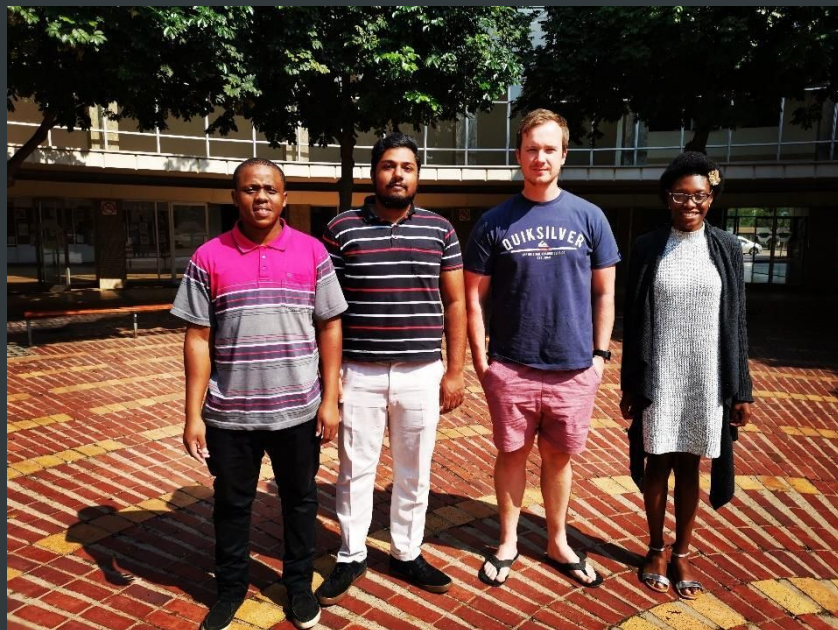
SODALICIUM MEMBERS:

BAVEN PAVADAY

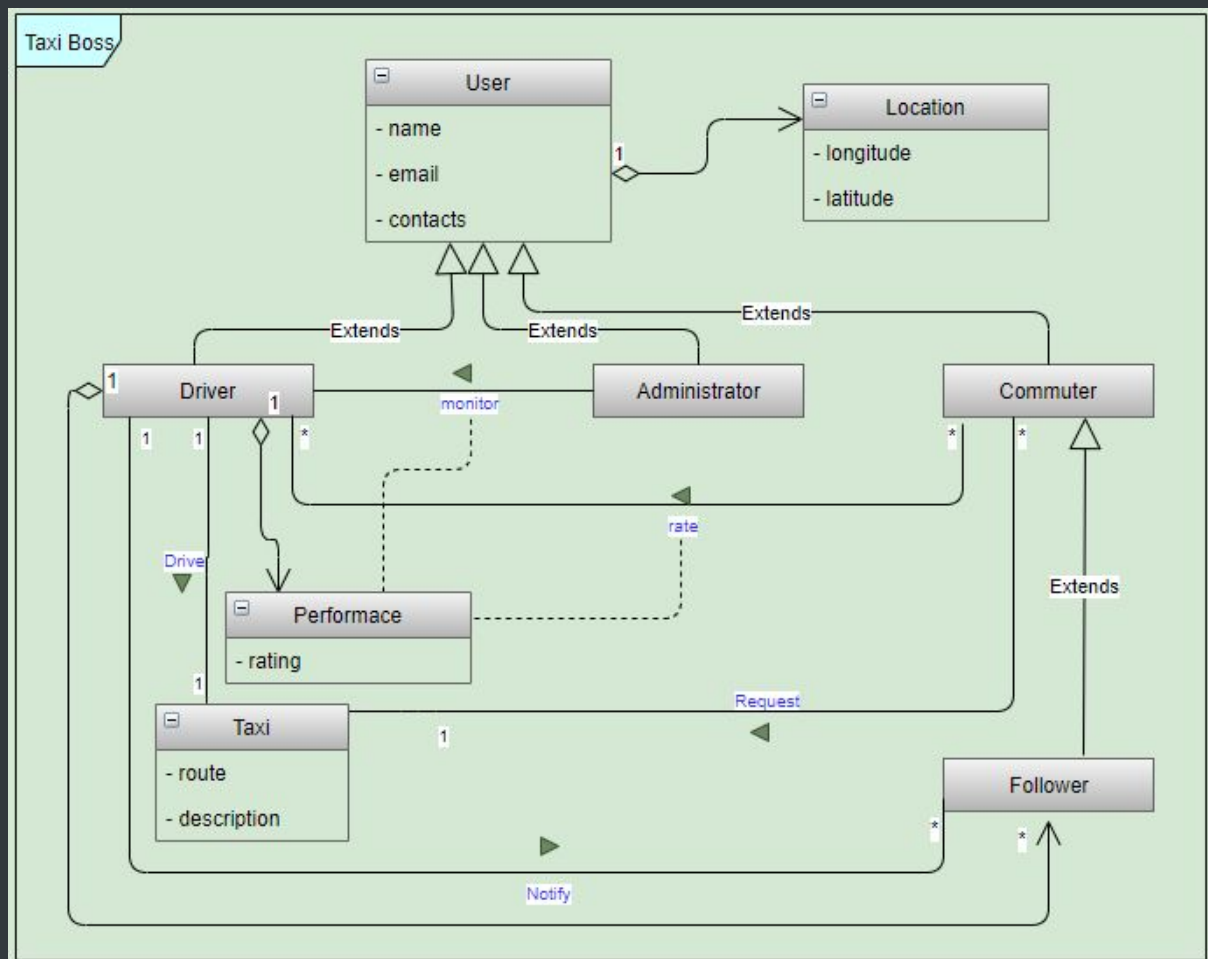
OLUWATOSIN BOTI

RYAN HARTLEY

TLOU LEBELO



DOMAIN MODEL



DESCRIPTION:

Taxi Boss is a system that aims to archive a level of safety in the taxi industry by allowing taxi commuters the opportunity to rate drivers on a real time bases. The system also integrate an intelligent aspect which allow drivers to be rated based on the GPS information, with regard to their behavior on a daily basis. The primary functions of the system is to:

- allow commuters to view and request taxis in their surrounding areas.
- allow commuters to rate the drivers based on their driving behavior during the trip.

SUBSYSTEMS IDENTIFIED:

- Notification
- Data Analysis (Gamification)
- GIS & Navigation
- User Interaction
- Data Access Control
- User account management

TECHNOLOGIES TO BE USED:

FRONT END:

- Application - OpenUI5
- Website – HTML, CSS, Bootstrap, Angular

BACKEND:

- Business Logic – Java

DATABASE:

- Database: MongoDB
- Cloud Service: MongoDB Atlas/Stitch

DEVELOPMENT METHODOLOGY:

Tools:

	Tools
Project Management	Zenhub
Source Code Management	Github
Team Collaboration	Slack

The Team:

- We are willing to put in as many work hours in as possible, we hope to develop multiple versions that will be available for client testing as soon as possible.
- We hope to involve our client using this iterative development process to not only develop an adequate product but also reaches the expectations of the client. We want to spend a large portion of the development time immersing ourselves in the problem to better understand and solve the project.
- We plan on creating solid communication channels between our group members using not only weekly face to face meetings but also a host of mediums that will allow us to collaborate and share ideas.
- We want to set strict deadlines for ourselves in order to deliver a well-constructed and timely product.

Client Expectation:

- We expect our client to be actively involved in the project, they should open to regular communication and occasional consultation.
- The client must provide regular feedback based on the work that will be presented to them at certain developmental intervals.

SKILLS AND KNOWLEDGE:

BAVEN PAVADAY:

- Web Development Skills - HTML, CSS, Bootstrap, Javascript, Node JS
- Database Skills – MySQL, SQLite, MongoDB
- Application – Java, C++, C

RYAN HARTLEY:

- Web Development Skills – HTML, CSS, Bootstrap, Javascript, PHP

- Database Skills – MySQL, SQLite, Postgresql, MongoDB
- Application – Java, C++, Python

TLOU LEBELO:

- Server Setup and Configuration
- Web Development Skills – HTML, CSS, Bootstrap, Javascript, PHP
- Database Skills – MySQL, SQLite, Postgresql, MongoDB
- Application – Java, C++, Python

OLUWATOSIN BOTI:

- Web Development Skills – HTML, CSS, Bootstrap, Javascript, PHP
- Database Skills – MySQL, SQLite, Postgresql, MongoDB
- Application – Java, C++, C#

Our web development skills will be used to deliver a friendly and responsive user interface. With our Application knowledge and database skill a desirable object oriented application system will be archived, which in hand allows for rigorous system testing.

Shortcomings may include a lack of experience and expertise in this domain. This will be solved through extensive research and interactions with the client to gather all the information needed to be able to implement the system