Fleet Management

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https://github.com/Keystone-Fleet-Management/Fleet-Tracker

Description

Our fleet tracker application is designed to support vehicle fleet management and job dispatch operations for small to medium sized businesses. Through our application, managers and drivers can access a variety of features designed specifically for their role within the organization - whether that is checking out a vehicle for use or creating new jobs to be dispatched.

Features

DRIVER FEATURES	MANAGER FEATURES
Check in and check out vehicles	Create new jobs
View jobs	Add vehicles to the fleet
Claim available jobs	View job and vehicle statuses
Submit repair requests	Add new drivers

User Stories

As a manager, I need to create jobs so there is work available for the drivers.

As a manager, I want to be able to add vehicles to the database so that they are available
for use.

As a manager, I want to be able to mark vehicles as needing repair.

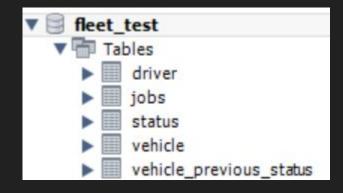As a driver, I want to see available jobs so I can claim them.

As a repairman, I want to be able to see when a vehicle is out of service.

As a user, I want to login using authentication so I can perform actions appropriate to
my role.

As a user, I want to be able to view a spreadsheet with all vehicles and their statuses.

SQL Database

Sql database is set up to store our drivers, jobs and vehicles as well as 2 different statuses. Drivers, Jobs, and vehicles are linked with one-to-one relationships. Statuses are linked to vehicles with Many-to-one relationship. Website checks database for currently logged in user based on username. Specified Driver is updated with vehicle and job information as they check out/check in vehicles and accept/complete jobs. Statuses are created and added to database dependant upon Driver action.

Technology Stack

- Java
- Spring Security
- Spring
- Thymeleaf
- Hibernate, MySQL
- HTML, CSS

Demo

What We Learned

How to deploy Spring Security and create role-based page restrictions.

How to efficiently work as a team using GitHub to manage branches and merges.

How to produce a MVP in a group setting.

How to delegate tasks and use individual strengths to our advantage.

What's Next

Would like to add features to create and assign repair tasks.

More driver tracking features.

More detailed job tracking functionality and Google Maps integration

More responsive web design

Add features for fleet repairmen