Abstract

Parksy solves the problem of collecting parking payments. Parksy reduces costs by not requiring any specialized equipment. It improves the customer experience by putting everything the user needs into the palm of their hands. Take a picture, put in your information, and park. With this application, no specialized equipment will be needed and no extra individual help will be needed. With this project, drivers do not have to wait for an attendant to make a transaction. Moreover, transactions will be accurately computed without errors. All the users have to do is create an account and register their car and credit card information and they are good to go.

Results

The application lets user create an account and register their car information which is then stored into the database. Whenever the user uses the application, the car picture is compared to the database to bill accordingly.

Database
- Written in MYSQL using Oracle.
- User table, account table, car information table, and credit card information tables created.
- Entities created to serialize classes to represent objects in tables created.
- Implemented Spring Web services.

Server Side User Interface
- Written in Java.
- Displays user vehicle images, confirming that image persistence and reading works correctly.
- Lets a customer service representative look up an account and modify user’s request.

Android Application
- Written in Java.
- Logic included to handle input validation.
- User registration for an account.

Summary

During the semester, our team worked on Parksy, the android application for ETCC.

While switching over to 0.010 jar from 0.0.09 jar, we ran into issues which only our company mentor was able to fix because he wrote those changes. The application will be handed over to ETCC so that they can polish and make improvements on the application before the release it to the public for use.

The team would like to thank our faculty advisor, Professor Mehra, and our company sponsor, Brad Jestis for their guidance and expertise during the project.

Impact

Our project's impact is going to make paid parking a whole lot easier. Instead of having to wait in line for an attendant or going to a kiosk or using an application for a kiosk, the user only has to register their car once and every time they use the parking spaces, their credit cards are automatically charged.

In today’s world where everyone is in such a rush, this application will save everyone a lot of time. This application also reduces costs by not requiring any specialized equipment or hiring parking attendants.