Garage Automation: User Documentation

Software Engineering – 14:332:452

Group #10: Kendric Postrero, Gao Pan, Vatsal Pandya, Peter Luo, Yunqi Shen, Arthur Rafal, Guy Rubinstein

URL:

https://vatsal09.github.io/Garage-Automation/

Submission Date:

April 30, 2017

User Documentation: Using the Web Application

Registration

Sign Up Form

Username:
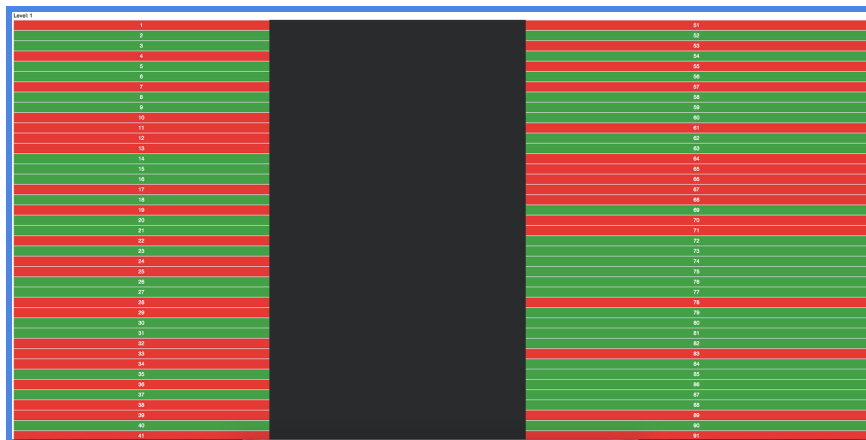
Password:

Password confirmation:

First Name:

Last Name:

Phone Number:

Payment Info

Registration is a simple process where users provide some personal information and a payment method. Payment methods are necessary for identifying users in unregistered vehicles and for charging them.

Check the Parking Lot Map

After logging in, the parking lot map closest to your geographic location is displayed on the home page. If the system detects that you have entered the parking lot, it will navigate you to a suggest parking spot.

The Home Menu

Payment

History

Settings

From here, the user can access the Payment, History, and Settings pages.

Add Payment Methods

Manage your payment methods using the payment screen. Here the user has the ability to review which payment methods exist on your account, add additional payment methods, or remove any extra ones.

✕

Payment

Payment Methods

Credit •••• 9876

Add Payment Method

←

Add Payment Method

○ Credit

○ Debit

Card Number

Exp. Date (xx/xx)

CVV

Country

Zip Code

Save

←

Credit

Card Number
•••• •••• •••• 9876

Expiry Date
11/20

Remove

When adding a payment, the information submitted is verified before it is accepted.

Review Past Parking Session

✕

History

Parking Session

March 28, 2017, 10:23 p.m. - NB Parking Lot

March 28, 2017, 10:27 p.m. - Rutgers Parking Lot

The history page displays the user's parking history.

By clicking on a specific parking session, the user can review specific details regarding it.

←

March 28, 2017, 10:23 p.m. - NB Parking Lot

Cost
$40

License Plate
DEF123

Card Number
•••• •••• •••• 9876

Review Account Settings and Vehicles

The settings pages displays account information.

Settings

Guy Rubinstein

(328) 856-9877

Vehicles

DEF123 ✖

XYZ789 ✖

Delete Account

This includes the vehicles registered to the account.
By pressing the x button, the user has the ability to remove vehicles from their account. They will be asked to confirm this decision.

Edit Account ☑

First Name
Guy

Last Name
Rubinstein

Phone Number
(328) 856-9877

When the user presses on their name, they are directed to the Edit Account page, where they can update their name and phone number.

Pressing Delete Account will remove the account from the database. The user will be asked to confirm this decision.

Registering Vehicles

Registering a vehicle happens automatically when a customer arrives at a parking lot. When they provide the payment method they added to their account, the system will register the vehicle to the same account. This is why a payment method can only be registered to a single account.

On future visits, the vehicle will be identified and the customer will be allowed entry without providing anything.

Unregistered Customers

Unregistered customers do not have access to all the benefits of registered users. However, they can still enjoy the convenience of a ticketless parking system. When they arrive at the parking lot, they can swipe their credit or debit card and be provided entry. On exit, they will be automatically charged. This is made possible by our sensor system at the turnstiles.

Cash only Customers

Customers who arrive with only cash will have the option of using a ticket system.