GarageMonkey – user manual

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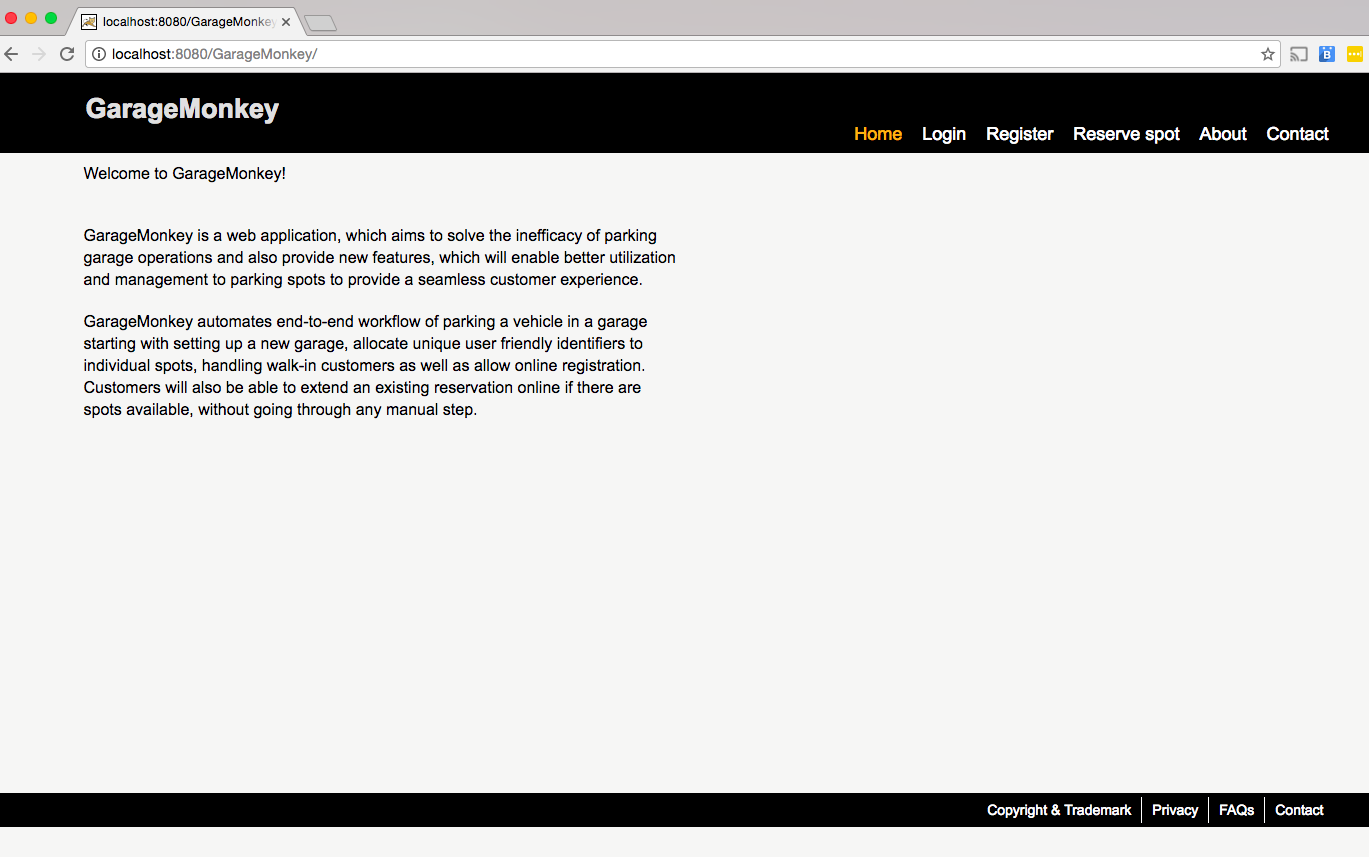
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## Introduction:

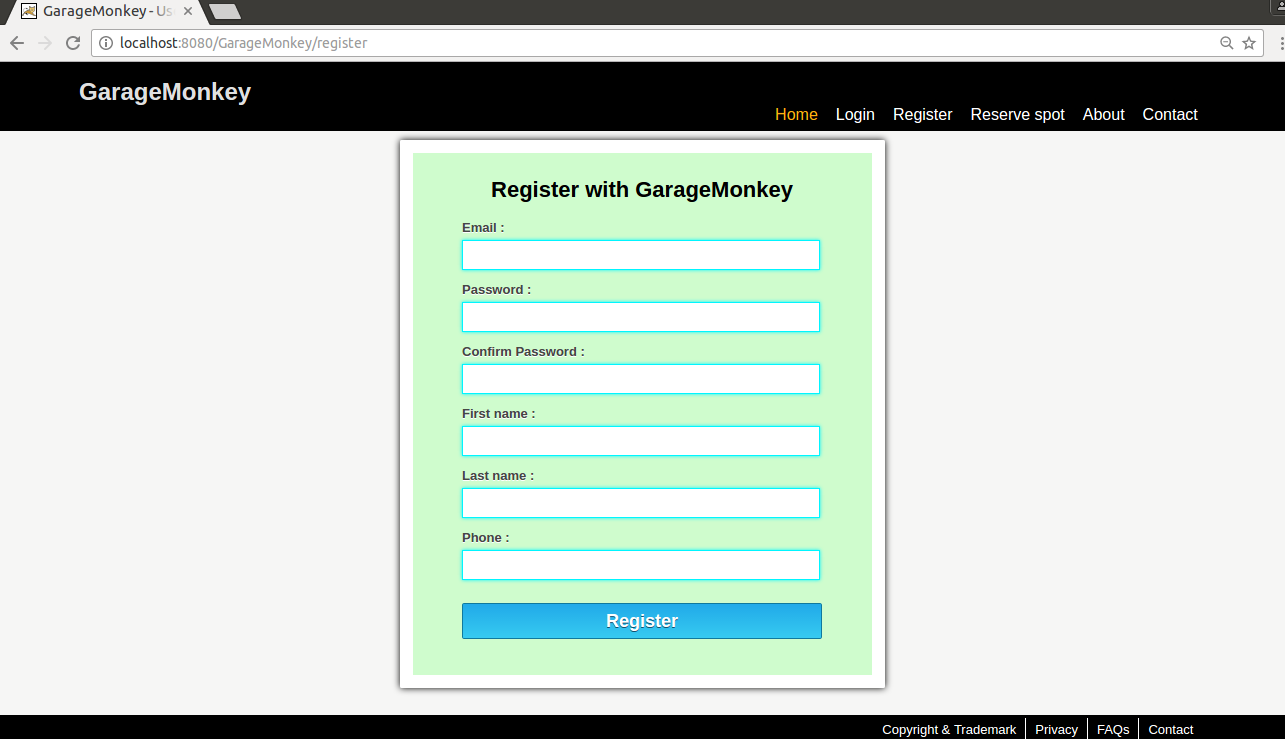
GarageMonkey is a web application, which aims to solve the inefficacy of parking garage operations and also provide new features, which will enable better utilization and management to parking spots to provide a seamless customer experience.

GarageMonkey automates end-to-end workflow of parking a vehicle in a garage starting with setting up a new garage, allocate unique user friendly identifiers to individual spots, handling walk-in customers as well as allow online registration. Customers will also be able to extend an existing reservation online if there are spots available, without going through any manual step.



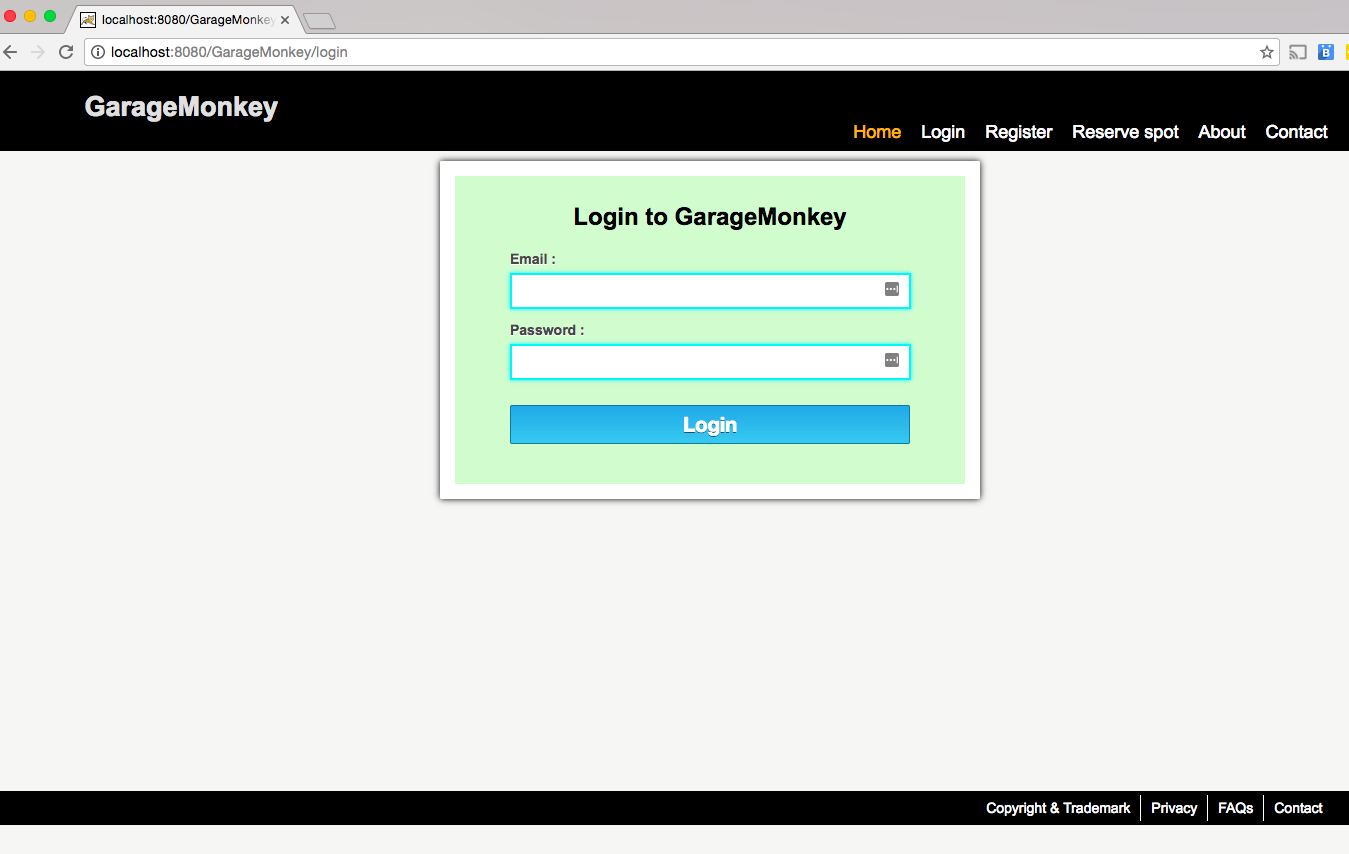
## Register with GarageMonkey:

You can register to GarageMonkey by clicking on Register tab and then filling out a simple registration form. You need to enter a valid email, password of your choice, confirm the password and then enter your first name, last name and phone number (optional). After you are register you can go to login screen and login to GarageMonkey.



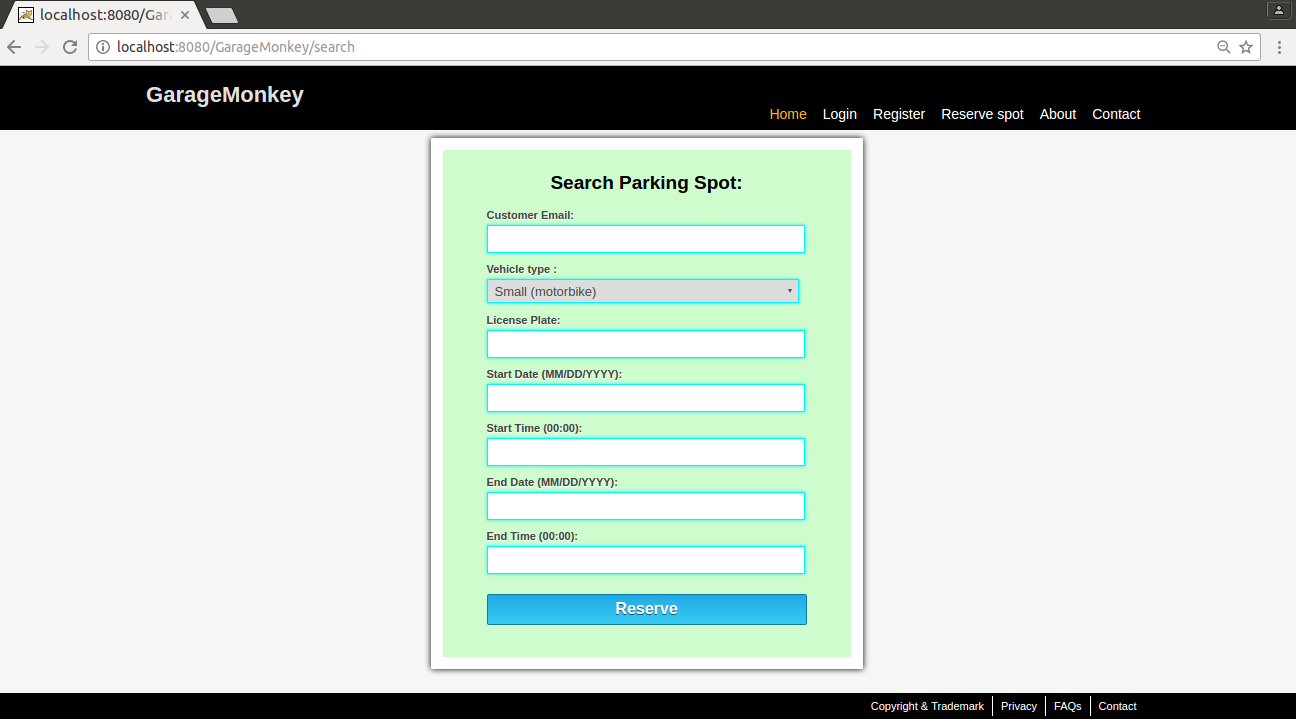
## Login to GarageMonkey:

Simply navigate to GarageMonkey and then click on the login button. Enter your login credentials and press “Login” button. Once you are logged in you can access to the profile page and you have an option to logout as well.

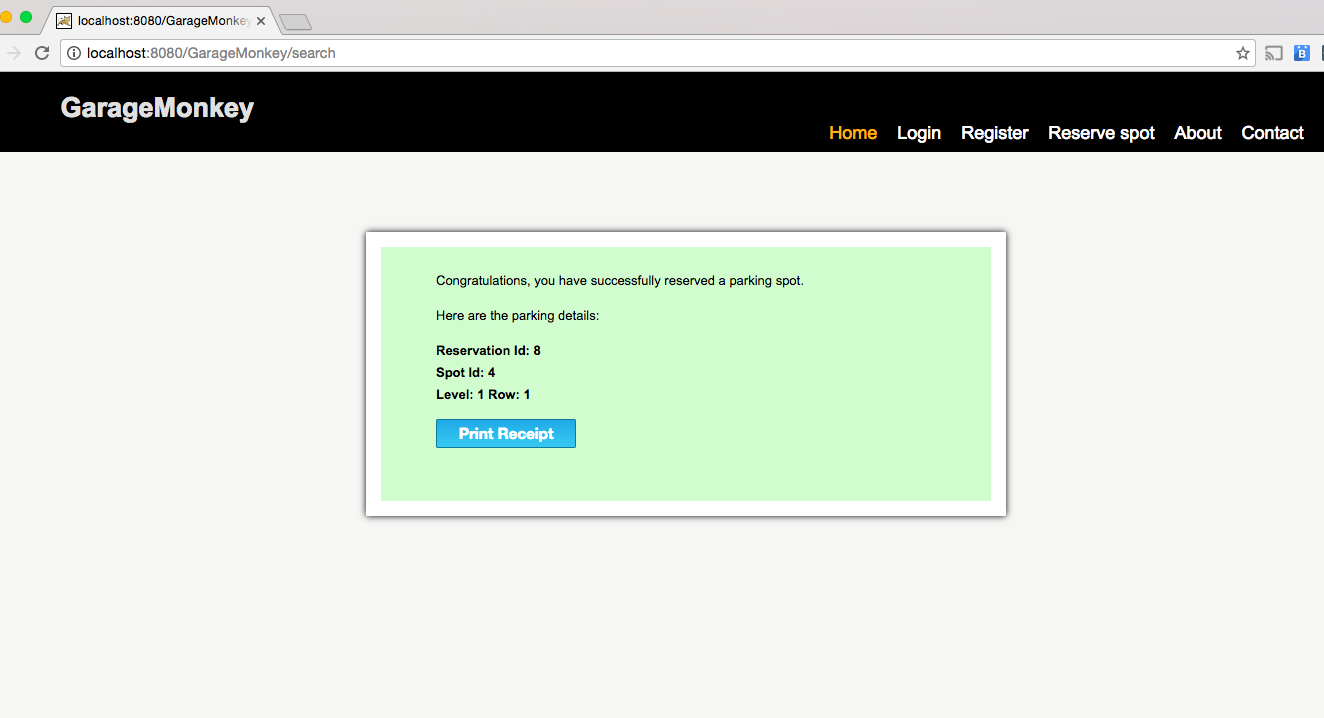


## Searching for Parking Spot:

You can search for an available parking spot entering your email, vehicle type (Categories: Small, compact, regular, large), License Plate, Start Date (MM/DD/YYYY), Start Time(00:00), End Date (MM/DD/YYYY) and End Time (00:00). Hit Reserve button and GarageMonkey will find and reserve an available parking spot for you.



If the parking spot was successfully reserved, user is provided the reservation details and an option to print these details:



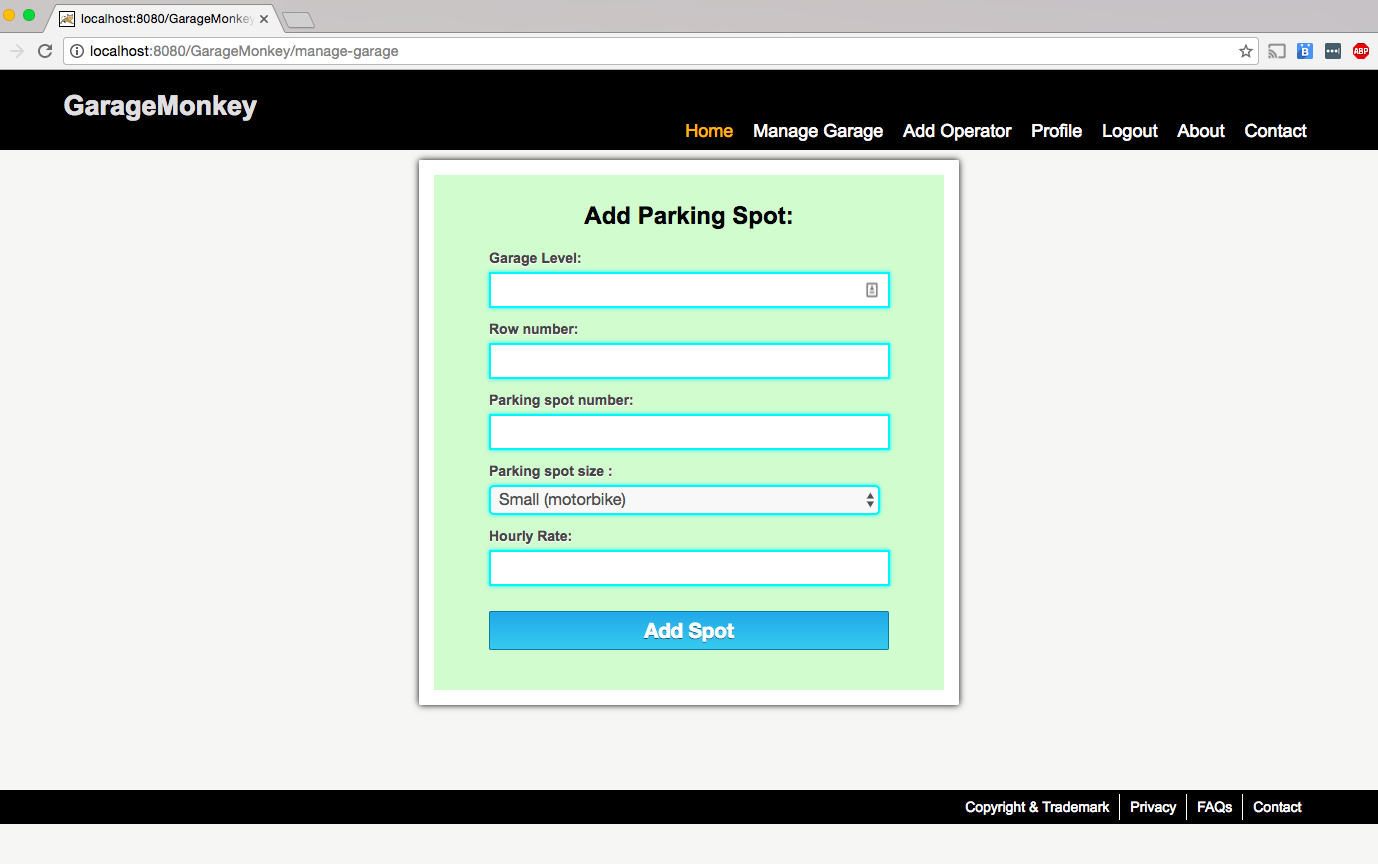
## Managing Garage – adding parking spots

Administrators are able to manage parking garage by adding parking spots, editing existing parking spots or removing already created parking spots.

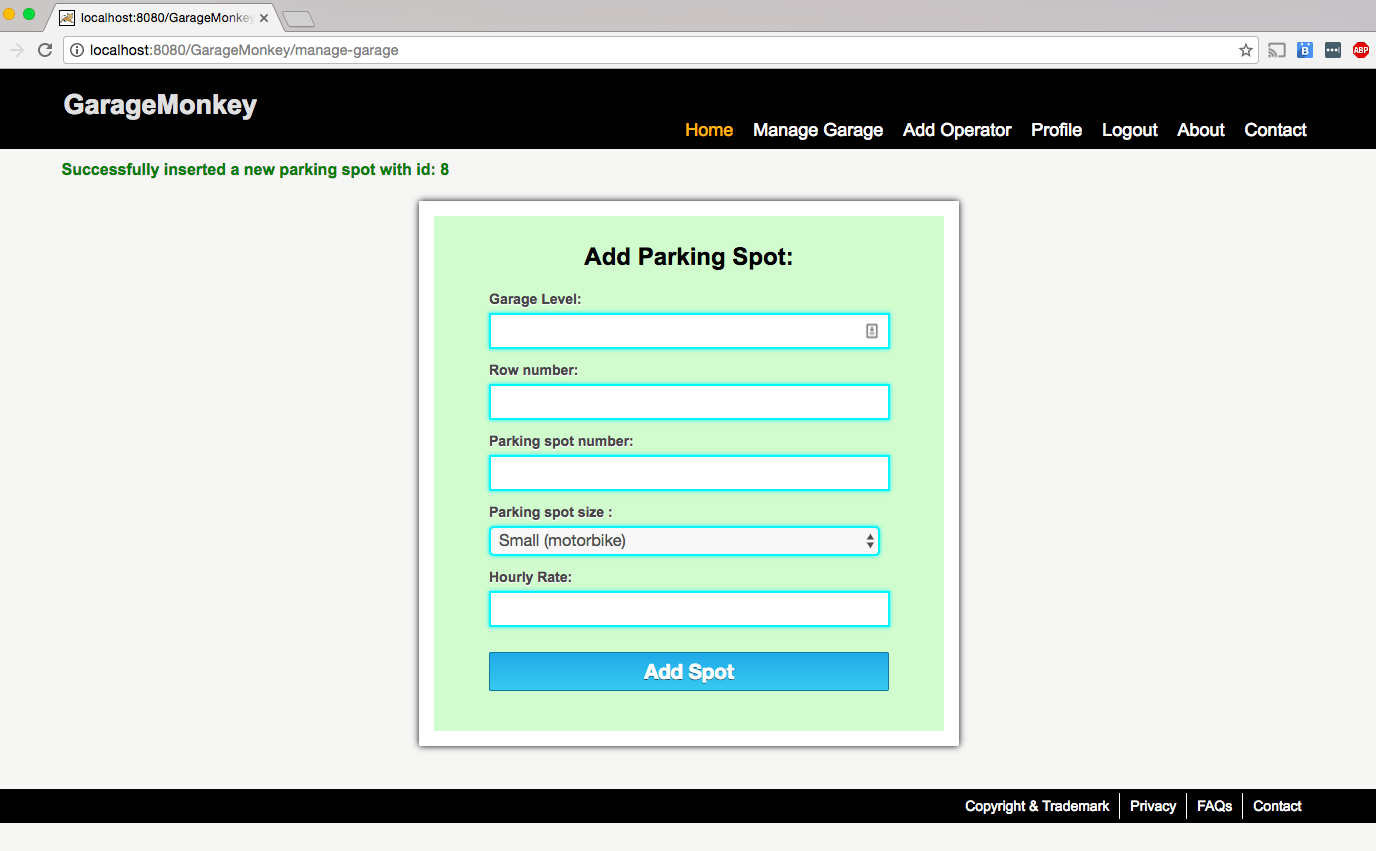
In order to insert a new parking spot:

a). Navigate to login page and log in using admin credentials. Default admin credentials are provided in the readme file. Please change default credentials once you are logged in.

b) Once you are logged in, navigate to Manage Garage page by using the link from top navigation bar (<http://localhost:8080/GarageMonkey/manage-garage>).



All the details are required in this page. Once you have entered all the details, press “Add Spot button” and a message similar to below picture will be displayed, confirming that a new parking spot has been added along with its id.



## Installation and Configuration:

### 1. Configure database

database.sql in the root directory contains SQL script to create garagemonkey database, create a new database user and create all the database tables.

To install the database, use the following command

a) Go to the directory where database.sql is stored

b) Make sure mysql server is running. On Unix environment, you can start it using "mysql.server restart"

c) Install the database using:

mysql -u root -p < database.sql

### 2. Install and configure Apache Tomcat

a) Download Apache Tomcat web server for your operating system.

b) Extract the download zip/tar file and edit tomcat-users.xml under <tomcat-directory>/conf.

Add user and password specified in build.properties (in the project resources folder)

Also add "manager-script" role. Here is an example:

<role rolename="manager-script"/>

<user username="garageadmin" password="admin123" roles="manager-script"/>

### 4. Start tomcat

a) Go to bin directory in the tomcat folder

b) run ./startup.sh

### 5. Install GarageMonkey web application

Install the web application using the ant script. Make sure you have Apache ant installed in the system.

a) Update build.properties path in edu.asu.garagemonkey.common.Globals to point to your tomcat directory

b) Go to project directory where build.xml is stored (its in the root directory of project)

c) Run ant execute -lib <tomcat-directory>/lib/

In the above command make sure to specify the path of lib directory of tomcat as part of ant command

### 6. Run the application

The above command should open home page of GarageMonkey in Google Chrome. If this doesn't work, nagivate to

http://localhost:8080/GarageMonkey/