Test Plan for GarageMonkey

The test plan for GarageMonkey is developed using Black Box Testing model. Application is tested against all the user requirements that we have determined in the SRS document to validate that all the requirements have been successfully met.

## Test cases for User Registration

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case name** | **Flow** | **Input** | **Expected output** |
| Registration | 1. Navigate to registration page  2. Enter required information  3. Press Register button | All the required inputs are present and they confirm to the requirements for each type | User receives successful registration manage and a link to login to the system |
| Registration without required information | 1. Navigate to registration page  2. Do not provide required information  3. Press Register button | User doesn’t enter required details | System generates error message prompting user to enter information |
| Registration with invalid information | 1. Navigate to registration page  2. Provide incorrect email id (email is not in the correct form)  3. Press Register button | User enters invalid email | System generates error message prompting user to enter information |
| Registration without matching password | 1. Navigate to registration page  2. Enter different passwords for both the password fields  3. Press Register button | User enters invalid passwords | System generates error message prompting user to enter information |

## Test cases for User Login

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case name** | **Flow** | **Input** | **Expected output** |
| Valid login | 1. Navigate to login page  2. Enter valid user details  3. Press Login button | A valid userid and password which has already been registered in the system | Login is successful and user is taken to the home page |
| Login without required information | 1. Navigate to registration page  2. Do not provide required information  3. Press Login button | User doesn’t enter required details | System generates error message prompting user to enter information |
| Login with invalid information | 1. Navigate to registration page  2. Provide incorrect email id (email is not in the system)  3. Press Login button | User enters invalid user credentials | System generates error message prompting user to enter correct information |

## Integration testing

Since the web application uses Database to permanently store all the information in the web application, we need to exhaustively test this integration point.

Integration testing for this project has been focused on:

* Testing the installation and configuration of GarageMonkey database scripts on MySQL database.
* Ensuring that the web application user exists and has all the roles to create tables, insert records and perform other required database tasks.
* Ensuring that all the required tables are created before the application starts.
* Ensure that application is able to connect to database using the default properties configuration specified in the property file of the application.
* Test that user registration module insert records correctly in the system
* Test that login module is able to select existing user from the database for validation purposes.
* Test that records inserted by admins for parking spots exist in the database.