

# ONLINE CAR PARKING RESERVATION SYSTEM

## Group 5

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# BLACK BOX TESTING

## Overview:

Black Box testing is a software testing method used when design/structure/implementation is not known to the tester. The tests can be functional or Non-functional. Here we have only covered the functional requirements. This method attempts to find errors in the following categories:

- Incorrect or missing functions
- Interface errors
- Errors in data structures or external database access
- Behavior or performance errors
- Initialization and termination errors

Following are the functional requirements of our project covered using Black Box testing:

## 1. SIGNUP, UPDATE OWNER, UPDATE USER

### Invalid:

- 1) Registered user tries to register again with the same email address
  - Eg. if temp@gmail.com is already registered user tries to register again then an error message will be prompted.
- 2) Password and Confirm password don't match
  - Eg. If the password is: temp1234 and the confirm password is temp123 then an error.
- 3) Password is less than 8 characters.
  - Eg. Password is 'temp123' that is 7 characters long.
- 4) Mobile no. contains characters other than numbers.
  - Eg. Mobile number is 78384#9^7!, an error message will be prompted.
- 5) Mobile no. contains doesn't contain 10 characters.
  - Eg. Mobile number is 999979687, which is 9 characters, an error message will be prompted.
- 6) Parking owner registers with google account

### Valid:

- 1) Unique email address
  - Eg. email address: qwerty@gmail.com
- 2) Password and confirm password match
  - Eg. password: tyuiop123, confirm password: tyuiop123
- 3) Password is more than 8 characters.

- Eg. Password: tyuiop123
- 4) Mobile number is numeric
  - Eg. Mobile number: 9345678990
- 5) Mobile number contains exactly 10 characters.
  - Eg. Mobile number: 9345678909

## 2. LOGIN:

### Invalid:

- 1) Registered user tries to login in as a parking owner and vice versa
  - Eg: If [temp@gmail.com](mailto:temp@gmail.com) is registered as a user and if he/she selects the category as “parking owner” then an error message will be prompted.
- 2) Registered email address and password don’t match
  - Eg: If a user/ parking owner is registered with [temp@gmail.com](mailto:temp@gmail.com) and password as qwertyuiop but when he/she enters a password as qwertyui then an error flash message will be prompted.
- 3) Email address not found
  - Eg: If a user/ parking owner tries to enter an email address as temp, then it will show that email does not exist.
- 4) The user who has registered with a google account will not be able to log in with his/her google credentials.

### Valid:

- 1) Registered email address and password match
  - Eg: If a user/ parking owner is registered with [temp@gmail.com](mailto:temp@gmail.com) and password as qwertyuiop but when he/she enters a password as qwertyuiop then he/she will be redirected to the respective page
- 2) The user who has registered with google account logs in with a google account.

## 3. Date time entry: Where user books the slot in the selected parking area

### Invalid:

- 1) User selects a previous date
  - Eg. If the current date is 05-05-2021 and the user tries to enter 04-05-2021
- 2) User selects the current date and previous time.
  - Eg. If the current date is 05-05-2021 and time is 20:00 and the user tries to enter 05-05-2021 date and time 19:00
- 3) A user enters a non-positive or a decimal value in the duration field.

- Eg. -1hr or 0hr
- 4) User tries to book a slot for a particular date and time in which all slots are already booked.  
Eg.if all slots are full of parking for date:05-05-2021and time:12:00 to 15:00

Then user can't book slot for below type of cases:

date:05-05-2021and time:11:00 to 13:00  
date:05-05-2021and time:14:00 to 16:00  
date:05-05-2021and time:13:00 to 14:00  
date:05-05-2021and time:11:00 to 16:00

#### **Valid:**

- 1) User selects the current date and current or future time.
  - Eg. If the current date is 05-05-2021 and the user tries to enter 05-05-2021 or 06-05-2021
- 2) The user enters a positive integer in the duration field.
  - Eg. >=1
- 3) User tries to book an available slot.

Eg.if all slots are full of parking for date:05-05-2021and time:12:00 to 15:00

Then user can book slot for below type of cases:

date:05-05-2021and time:10:00 to 12:00  
date:05-05-2021and time:after 15:00  
date:06-05-2021(or future date)and time:any

## **4. OWNER:**

(Add parking)

#### **Invalid:**

- 1) Owner tries to enter a non positive or decimal value for no. of slots and price for each slot.
  - Eg. slot2w=-1,slot4w=2,price2w=3,price4w=4  
slot2w=-1,slot4w=2,price2w=-3,price4w=4  
slot2w=-1,slot4w=2.5,price2w=3,price4w=4  
slot2w=1,slot4w=2,price2w=3.3,price4w=4
- 2) Owner tries to enter just the city name without mentioning the state name in the Location field.
  - Eg. location=surat (which will locate in Malaysia)

#### **Valid:**

- 1) Owner enter a positive integer for no. of slots and price for each slot
  - Eg. slot2w=1,slot4w=2,price2w=3,price4w=4
- 2) Owner enters the complete location of the parking area
  - Eg. location=surat, Gujarat