

## **CS 40800: Test Plan**

**Project Title:** Boileride

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**User story 1:** As a user, I would like to create an account.

### Test Case 1.1: Create account with valid input

Instructions:

1. Create an account with following info:

Nickname: boiler

Password: Ride1@

Confirm Password: Ride1@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

An user account created with following info:

Nickname: boiler

Password: Ride1@

Confirm Password: Ride1@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Severity: Critical

### Test Case 1.2: Create account with invalid input (nickname length exceeds limit)

Instructions:

1. Create an account with following info:

Nickname: boilerboilerboilerboilerboilerboilerboilerboilerboiler ----> 54 characters

Password: Ride1@

Confirm Password: Ride1@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

No account will be create

Severity: Critical

Test Case 1.3: Create account with invalid input (duplicate email)

Instructions:

1. Create an account with following info:

Nickname: boiler

Password: Ride1@

Confirm Password: Ride1@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

2. Create another account with following info:

Nickname: boiler2

Password: Ride2@

Confirm Password: Ride2@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

Duplicate account will not be create

Severity: Critical

Test Case 1.4: Create account with invalid input (invalid password with no capital letter)

Instructions:

Create an account with following info:

Nickname: boiler

Password: ride1@

Confirm Password: ride1@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

System will show an error message: Invalid password.

Severity: Critical

Test Case 1.5: Create account with invalid input (invalid password with no number)

Instructions:

Create an account with following info:

Nickname: boiler

Password: Ridee@

Confirm Password: Ridee@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

System will show an error message: Invalid password.

Severity: Critical

Test Case 1.6: Create account with invalid input (invalid password with no special character)

Instructions:

Create an account with following info:

Nickname: boiler

Password: Ride1

Confirm Password: Ride1

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

System will show an error message: Invalid password.

Severity: Critical

Test Case 1.7: Create account with invalid input (invalid password length)

Instructions:

Create an account with following info:

Nickname: boiler

Password: R1@

Confirm Password: R1@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

System will show an error message: Invalid password.

Severity: Critical

Test Case 1.8: Create account with invalid input (password confirm does not matched password)

Instructions:

Create an account with following info:

Nickname: boiler

Password: Ride1@

Confirm Password: Ride2@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 7563234567

Expected results:

System will show an error message: Password mismatched.

Severity: Critical

Test Case 1.9: Create account with invalid input (phone number length invalid)

Instructions:

Create an account with following info:

Nickname: boiler

Password: Ride1@

Confirm Password: Ride2@

Email: [boiler@gmail.com](mailto:boiler@gmail.com)

Phone: 756323

Expected results:

System will show an error message: Invalid phone number.

Severity: Critical

**User story 2: As a user, I would like to reset my password if I forgot my password.**

Test Case 2.1: Reset password

Instructions:

1. Assume there's an account created as shown in case 1.1

2. User clicks forgot password
3. System sends an email with randomly generated password to user's email
4. User login with the randomly generated password
5. User reset password.

Expected results:

System successfully send out an email containing randomly generated password, and modified the password in the database to the randomly generated password.

User then will be able to login with that randomly generated password, and reset his/her password.

Severity: Important

#### Test Case 2.2: Reset password failed (system did not send out email)

Instructions:

1. Assume there's an account created as shown in case 1.1
2. User clicks forgot password
3. User check email for the email sent by system

Expected results:

System failed to send out an email containing randomly generated password, but modified the password in the database to the randomly generated password.

Severity: important

#### Test Case 2.3: Reset password failed (randomly generated password doesn't work)

Instructions:

1. Assume there's an account created as shown in case 1.1
2. User clicks forgot password
3. System sends an email with randomly generated password to user's email
4. User can't login with the randomly generated password

Expected results:

System successfully send out an email containing randomly generated password, but failed to modify the password in the database to the randomly generated password.

User then failed to login with that randomly generated password, and reset his/hers password.

Severity: important

**User story 3: As a user, I would like to update account info.**

Test Case 3.1: Update account info

Instructions:

1. Assume there's an account created as shown in case 1.1
2. User logs into system to update account info to following:  
    Nickname: boiler  
    Password: Ride2@  
    Confirm Password: Ride2@  
    Email: [boiler@gmail.com](mailto:boiler@gmail.com)  
    Phone: 7563234567
3. User modified account info
4. User clicks "save" button

Expected results:

System successfully saves the modified info

Severity: important

Test Case 3.2: Update account info failed

Instructions:

1. Assume there's an account created as shown in case 1.1
2. User logs into system to update account info to following:  
    Nickname: boiler  
    Password: Ride2@  
    Confirm Password: Ride2@  
    Email: [boiler@gmail.com](mailto:boiler@gmail.com)  
    Phone: 7563234567
3. User modified account info
4. User clicks "save" button

Expected results:

System did not save the modified info

Severity: important

**User story 4: As a user, I would like to login to my account.**

Test Case 4.1: Login with valid account

Instructions:

1. Assume there's a valid account in the system as shown in test case 1.1
2. Login with the following info:
  - a. Email: [boiler@gmail.com](mailto:boiler@gmail.com)
  - b. Password: Ride1@

Expected results:

User successfully logged in, and the goes directly to ride page

Severity: Critical

Test Case 4.2: Login with invalid account (Email address not matched)

Instructions:

1. Assume there's a valid account in the system as shown in test case 1.1
2. Login with the following info:
  - a. Email: [boiler1@gmail.com](mailto:boiler1@gmail.com)
  - b. Password: Ride1@

Expected results:

Error message: No matched user

Severity: Critical

Test Case 4.3: Login with invalid account (Email address without "@")

Instructions:

1. Assume there's a valid account in the system as shown in test case 1.1
2. Login with the following info:
  - a. Email: boiler1@gmail.com
  - b. Password: Ride1@

Expected results:

Error message: Invalid email input

Severity: Critical

#### Test Case 4.4: Login with invalid account (Email address without domain)

##### Instructions:

1. Assume there's a valid account in the system as shown in test case 1.1
2. Login with the following info:
  - a. Email: boiler1@.com
  - b. Password: Ride1@

##### Expected results:

Error message: Invalid email input

Severity: Critical

#### Test Case 4.5: Login with invalid account (Password not match)

##### Instructions:

1. Assume there's a valid account in the system as shown in test case 1.1
2. Login with the following info:
  - a. Email: boiler1@.com
  - b. Password: Ride2@

##### Expected results:

Error message: No matched user

Severity: Critical

**User story 5: As a user, I would like to logout from my account.**

#### Test Case 5.1: Logout

##### Instructions:

1. Assume user logged in with the user info in case 1.1
2. User clicks logout button

##### Expected results:

User successfully logged out, and goes back to login page

Severity: Important



**User story 6: As a user, I would like to post a ride request as a passenger by providing these details:**

- 1. pickup location and destination**
- 2. date and time**
- 3. number of passengers**
- 4. number of luggage**
- 5. preferences (smoking allowed, food and drinks allowed, pets allowed and air conditioning available)**

Test Case 6.1: Posting a request as passenger with invalid address

Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: 75, Kg Sg Ramal Luar, 43000, Kajang, Selangor, Malaysia
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid address!

Severity: Important

Test Case 6.2: Posting a request as passenger with invalid number of passenger

Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: -3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for number of passenger!

Severity: Important

Test Case 6.3: Posting a request as passenger with invalid number of luggage

Instructions:

1. Create the following post:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am
- number of passengers: 3
- number of luggage: -10
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for number of luggage!

Severity: Important

Test Case 6.4: Posting a request as passenger with invalid date

Instructions:

1. Create the following post:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of yesterday
- time: 9:00am
- number of passengers: 3
- number of luggage: 1
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for date!

Severity: Important

### Test Case 6.5: Posting a request as passenger with invalid time

#### Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of today
  - time: 9:00am (it is already 11:00 am)
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

#### Expected results:

- Invalid input for time!

Severity: Important

### Test Case 6.6: Posting a request as passenger with valid inputs

#### Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

#### Expected results:

- Successfully created!

Severity: Important

**User story 7: As a user, I would like to post a ride offer as a driver by providing these details:**

- 1. pickup location and destination**
- 2. date and time**
- 3. number of seats available**
- 4. room for luggage**
- 5. available amenities (smoking allowed, food and drinks allowed, pets allowed and air conditioning available)**

Test Case 7.1: Posting a request as driver with invalid address

Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: 75, Kg Sg Ramal Luar, 43000, Kajang, Selangor, Malaysia
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid address!

Severity: Important

Test Case 7.2: Posting a request as driver with invalid number of passenger

Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: -3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for number of passenger!

Severity: Important

Test Case 7.3: Posting a request as driver with invalid number of luggage

Instructions:

1. Create the following post:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am
- number of passengers: 3
- number of luggage: -10
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for number of luggage!

Severity: Important

Test Case 7.4: Posting a request as driver with invalid date

Instructions:

1. Create the following post:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of yesterday
- time: 9:00am
- number of passengers: 3
- number of luggage: 1
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for date!

Severity: Important

#### Test Case 7.5: Posting a request as driver with invalid time

##### Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of today
  - time: 9:00am (it is already 11:00 am)
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

##### Expected results:

- Invalid input for time!

Severity: Important

#### Test Case 7.6: Posting a request as driver with valid inputs

##### Instructions:

1. Create the following post:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

##### Expected results:

- Successfully created!

Severity: Important

**User story 8: As a user, I would like to cancel my posted ride request or offer.**

Test Case 8.1: Cancel a posted ride request for both driver and passenger

Instructions:

1. Create the following ride requests with another user account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)
2. Click on the cancel button:
  - a pop out box appeared asking “Are you sure you want to cancel the ride?”
3. Click on the “yes” button if you want to cancel the ride request, if not then click on “no” button

Expected results:

- “yes”: Successfully cancelled it!
  - Email will be sent out to both the driver and passengers.
- “no“ : nothing happen.

Severity: Important

Test Case 8.2: Cancel a posted ride request for both driver and passenger but it’s not recorded by the server

Instructions:

1. Create the following ride requests with another user account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1

- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)
2. Click on the cancel button:
    - a pop out box appeared asking “Are you sure you want to cancel the ride?”
  3. Click on the “yes” button
  4. User search by entering the following details with current account:
    - pickup location: PMU, 101 Grant Street, West Lafayette, IN
    - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
    - date: date of tomorrow
    - time: 9:00am

Expected results:

- Result found

Severity: Critical

**User story 9: As a user, I would like to update my posted ride request or offer.**

Test Case 9.1: Updating a request with invalid address

Instructions:

1. Update the post with following input:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: 75, Kg Sg Ramal Luar, 43000, Kajang, Selangor, Malaysia
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid address!

Severity: Important



### Test Case 9.2: Updating a request with invalid number of passenger

#### Instructions:

1. Update the post with following input:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: -3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

#### Expected results:

- Invalid input for number of passenger!

Severity: Important

### Test Case 9.3: Updating a request with invalid number of luggage

#### Instructions:

1. Update the post with following input:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: -10
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

#### Expected results:

- Invalid input for number of luggage!

Severity: Important

### Test Case 9.4: Updating a request with invalid date

#### Instructions:

1. Update the post with following input:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of yesterday
- time: 9:00am
- number of passengers: 3
- number of luggage: 1
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for date!

Severity: Important

#### Test Case 9.5: Updating a request with invalid time

Instructions:

1. Update the post with following input:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of today
- time: 9:00am (it is already 11:00 am)
- number of passengers: 3
- number of luggage: 1
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Invalid input for time!

Severity: Important

#### Test Case 9.6: Updating a request with valid inputs

Instructions:

1. Update the post with following input:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN

- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am
- number of passengers: 3
- number of luggage: 1
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- Successfully updated!

Severity: Important

**User story 10: As a user, I would like to view my ride requests and offers.**

Test Case 10.1: Click on the “myList” button to view your ride

Instructions:

1. Click on “myList” button
2. A list of related rides will be shown

Expected results:

- A complete list of related rides is shown

Severity: Important

Test Case 10.2: Request or offer doesn’t appear in “myList” after adding it

Instructions:

1. Create the following ride requests:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 1
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)
2. Click on “Your rides” button

3. A list of your rides will be shown

Expected results:

- An empty list is shown

Severity: Critical

**User story 11: As a user, I would like to search for a ride request as a driver by providing these details:**

- 1. a pickup location and destination, with the option of adding proximity of pickup location and destination**
- 2. date and time with the option of providing range of date and time**
- 3. number of passengers**
- 4. number of luggage**
- 5. preferences (smoking allowed, food and drinks allowed, pets allowed and air conditioning available).**

Test Case 11.1: Search for a ride request with valid input with matching result

Instructions:

1. Create the following ride requests with another user account:

Request 1:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am
- number of passengers: 3
- number of luggage: 1
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Request 2:

- same pickup location, destination, date, time as above
- number of passengers: 1
- number of luggage: 3
- preferences (smoking allowed: No, food and drinks allowed: No, pets allowed: No and air conditioning available: No)

2. Search by entering the following details with current account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN

- date: date of tomorrow
- time: 9:00am

Expected results:

- Both ride requests created will be on the list of search results.

Severity: Critical

#### Test Case 11.2: Search for a ride request with valid input with no matching result

Instructions:

1. Create the following ride requests with another user account:

Request 1:

- pickup location: Chauncey Hill Mall, West State Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am

Request 2:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Hillenbrand Dining Court, 1301 3rd Street, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am

Request 3:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of day after tomorrow
- time: 9:00am

Request 4:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 10:00am

2. Search by entering the following details with current account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am

Expected results:

- No results found

Severity: Critical

#### Test Case 11.3: Search for a ride request with incomplete address

Instructions:

1. Create the following ride request with another user account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Indianapolis International Airport (IND), Col. H. Weir Cook Memorial Dr, Indianapolis, IN
  - date: date of tomorrow
  - time: 9:00am
2. Search by entering the following details with current account:
  - pickup location: West Lafayette, IN
  - destination: Indianapolis, IN
  - date: date of tomorrow
  - time: 9:00am

Expected results:

- The ride request created will be on the list of search results.

Severity: Critical

#### Test Case 11.4: Search for a ride request with invalid input (invalid pickup location)

Instructions:

1. Search by entering the following details:
  - pickup location: West Lafayette, IN
  - destination: West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am

Expected results:

- Error message stating pickup and destination cannot be the same

Severity: Important

#### Test Case 11.5: Search for a ride request with invalid input (invalid pickup location)

##### Instructions:

1. Search by entering the following details:
  - pickup location: fafayette
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am

##### Expected results:

- Error message stating invalid pickup location

Severity: Important

#### Test Case 11.6: Search for a ride request with invalid input (invalid destination)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: fafayette
  - date: date of tomorrow
  - time: 9:00am

##### Expected results:

- Error message stating invalid destination

Severity: Important

#### Test Case 11.7: Search for a ride request with invalid input (past date)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of yesterday
  - time: 9:00am

##### Expected results:

- Error message stating invalid date

Severity: Important

Test Case 11.8a: Search for a ride request with invalid input (true past time)

Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of today
  - time: 1 minute before current time

Expected results:

- Error message stating invalid time

Severity: Important

Test Case 11.8b: Search for a ride request with past time but not past date

Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 1 minute before current time

Expected results:

- display list of rides matching the search criteria

Severity: Critical

Test Case 11.9: Search for a ride request with empty input (empty pickup location)

Instructions:

1. Search by entering the following details:
  - pickup location: (leave blank)
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am

Expected results:

- Error message prompting for pickup location

Severity: Critical



#### Test Case 11.10: Search for a ride request with empty input (empty destination)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: (leave blank)
  - date: date of tomorrow
  - time: 9:00am

##### Expected results:

- Error message prompting for destination

Severity: Critical

#### Test Case 11.11: Search for a ride request with empty input (empty date)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: (leave blank)
  - time: 9:00am

##### Expected results:

- Error message prompting for pickup date

Severity: Critical

#### Test Case 11.12: Search for a ride request with empty input (empty time)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: (leave blank)

##### Expected results:

- Error message prompting for pickup time

Severity: Critical

### Test Case 11.13: Advanced search for a ride request with valid input with matching result

#### Instructions:

1. Create the following ride request with another user account:

##### Request 1:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am
- number of passengers: 2
- number of luggage: 3
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

2. Do the following searches:

##### Search 1:

- pickup location: Discovery Parking Lot, West Lafayette, IN (exactly 1 mile from PMU)
- destination: Earhart Residence Hall, 1275 1st Street, West Lafayette, IN (exactly 1 mile from Stadium)
- proximity of pickup location: 1 mile
- proximity of destination: 1 mile
- range of date: date of today to date of tomorrow
- range of time: 8:00am - 9:00am
- number of passengers: 2
- number of luggage: 3
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

##### Search 2:

- number of passengers: 1
- number of luggage: 2
- rest of the criteria the same as Search 1

#### Expected results:

- The ride request created will be on the list of search results for both searches.

Severity: Critical

\*\*\* Assume having the same ride request created in Test Case 11.13 for the following Test Cases 11.14a - 11.14g\*\*\*

Test Case 11.14a: Advanced search for a ride request with no matching result (mismatched boundary proximity of pickup location)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: Intramural Black Playing Fields, West Lafayette, IN (1.1 mile from PMU)
  - destination: Earhart Residence Hall, 1275 1st Street, West Lafayette, IN
  - proximity of pickup location: 1 mile
  - proximity of destination: 1 mile
  - range of date: date of today to date of tomorrow
  - range of time: 8:00am - 9:00am
  - number of passengers: 2
  - number of luggage: 3
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride request created will not be on the list of the search results.

Severity: Critical

Test Case 11.14b: Advanced search for a ride request with no matching result (mismatched boundary proximity of destination)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: Discovery Parking Lot, West Lafayette, IN
  - destination: Theta Tau Fraternity, 416 N Chauncey Ave, West Lafayette, IN (1.1 mile from Stadium)
  - proximity of pickup location: 1 mile
  - proximity of destination: 1 mile
  - range of date: date of today to date of tomorrow
  - range of time: 8:00am - 9:00am
  - number of passengers: 2
  - number of luggage: 3

- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride request created will not be on the list of the search results.

Severity: Critical

Test Case 11.14c: Advanced search for a ride request with no matching result (mismatched boundary range of date)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - range of date: date of day after tomorrow to date of 2 days after tomorrow
  - range of time: 8:00am - 9:00am
  - number of passengers: 2
  - number of luggage: 3
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)
2. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - range of date: date of day before today to date of today
  - range of time: 8:00am - 9:00am
  - number of passengers: 2
  - number of luggage: 3
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride request created will not be on the list of search results in any of the searches.

Severity: Critical

Test Case 11.14d: Advanced search for a ride request with no matching result (mismatched boundary range of time)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - range of time: 8:00am - 8:59am
  - number of passengers: 2
  - number of luggage: 3
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)
2. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - range of time: 9:01am - 10:00am
  - number of passengers: 2
  - number of luggage: 3
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride request created will not be on the list of search results in any of the searches.

Severity: Critical

Test Case 11.14e: Advanced search for a ride request with no matching result (mismatched boundary number of passengers)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 4
  - number of luggage: 3

- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride request created will not be on the list of the search results.

Severity: Critical

Test Case 11.14f: Advanced search for a ride request with no matching result (mismatched number of luggage)

Instructions:

1. Search by entering the following details with current account:
  - same pickup location, destination, date, time as Search in Test Case 11.14e
  - number of passengers: 2
  - number of luggage: 4
  - preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride request created will not be on the list of the search results.

Severity: Critical

Test Case 11.14g: Advanced search for a ride request with no matching result (mismatched preferences)

Instructions:

1. Do the following searches one by one

Search 1:

- same pickup location, destination, date, time as Search in Test Case 11.14e
- number of passengers: 2
- number of luggage: 3
- preferences (smoking allowed: No, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Search 2:

- same pickup location, destination, date, time as Search in Test Case 11.14e
- number of passengers: 2
- number of luggage: 3

- preferences (smoking allowed: Yes, food and drinks allowed: No, pets allowed: Yes and air conditioning available: Yes)

Search 3:

- same pickup location, destination, date, time as Search in Test Case 11.14e
- number of passengers: 2
- number of luggage: 3
- preferences (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: No and air conditioning available: Yes)

Search 4:

- same pickup location, destination, date, time as Search in Test Case 11.14e
- number of passengers: 2
- number of luggage: 3
- preferences (smoking allowed: Yes, food and drinks allowed: No, pets allowed: Yes and air conditioning available: No)

Expected results:

- The ride request created will not be on the list in any of the searches.

Severity: Critical

**User story 12: As a user, I would like to search for a ride offer as a passenger by providing these details:**

- 1. a pickup location and destination, with the option of proximity of pickup location and destination**
- 2. date and time with the option of providing range of date and time**
- 3. number of seats available**
- 4. number of luggage**
- 5. preferences (number of rides)**
- 6. amenities available (smoking allowed, food and drinks allowed, pets allowed and air conditioning available).**

Test Case 12.1: Search for a ride offer with valid input with matching result

Instructions:

1. Create the following ride offer with another user account:

Offer 1:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow

- time: 9:00am
- number of seats available: 3
- room for luggage: 1
- amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Offer 2

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Felix Haas Hall, North University Street, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am (travel time from PMU to Haas is 5 mins)
- rest of the setting same as in offer 1

Offer 3

- pickup location: Felix Haas Hall, North University Street, West Lafayette, IN
- destination: Horticulture Park, West Lafayette, IN
- date: date of tomorrow
- time: 9:15am (travel time from Haas to Discovery Parking is 4 mins)
- rest of the setting same as in offer 1

Offer 4

- pickup location: Horticulture Park, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of day after tomorrow
- time: 9:15am
- rest of the setting same as in offer 1

2. Search by entering the following details with current account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am

Expected results:

- Ride offer 1 created will be on the list of search results.
- Ride offers 2, 3, 4 will be listed as a single trip on the list of search results.

Severity: Critical

Test Case 12.2: Search for a ride offer with valid input but impossible multiple ride

Instructions:

1. Create the following ride offer with another user account:



Offer 1:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Felix Haas Hall, North University Street, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am (Travel time from PMU to Haas is 5 mins)
- number of seat available: 1
- room for luggage: 3
- amenities available (smoking allowed: No, food and drinks allowed: No, pets allowed: No and air conditioning available: No)

Offer 2:

- pickup location: Felix Haas Hall, North University Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:14am
- the rest of the settings are the same as offer 1

Offer 3:

- pickup location: Felix Haas Hall, North University Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of day after tomorrow
- time: 9:01 am
- the rest of the settings are the same as offer 1

2. Search by entering the following details with current account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am

Expected results:

- The created offers will not be in the list of search results

Severity: Critical

### Test Case 12.3: Search for a ride offer with valid input with no matching result

Instructions:

1. Create the following ride offers with another user account:

Offer 1:

- pickup location: Chauncey Hill Mall, West State Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN

- date: date of tomorrow
- time: 9:00am

Offer 2:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Hillenbrand Dining Court, 1301 3rd Street, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am

Offer 3:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of day after tomorrow
- time: 9:00am

Offer 4:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 10:00am

2. Search by entering the following details with current account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am

Expected results:

- No results found

Severity: Critical

#### Test Case 12.4: Search for a ride offer with incomplete address

Instructions:

1. Create the following ride offer with another user account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Indianapolis International Airport (IND), Col. H. Weir Cook Memorial Dr, Indianapolis, IN
- date: date of tomorrow
- time: 9:00am

2. Search by entering the following details with current account:

- pickup location: West Lafayette, IN

- destination: Indianapolis, IN
- date: date of tomorrow
- time: 9:00am

Expected results:

- The ride offer created will be on the list of search results.

Severity: Critical

#### Test Case 12.5: Search for a ride offer with invalid input (invalid pickup location)

Instructions:

1. Search by entering the following details:
  - pickup location: West Lafayette, IN
  - destination: West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am

Expected results:

- Error message stating pickup and destination cannot be the same

Severity: Important

#### Test Case 12.6: Search for a ride offer with invalid input (invalid pickup location)

Instructions:

1. Search by entering the following details:
  - pickup location: fafayette
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am

Expected results:

- Error message stating invalid pickup location

Severity: Important

#### Test Case 12.7: Search for a ride offer with invalid input (invalid destination)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: fafayette
  - date: date of tomorrow
  - time: 9:00am

##### Expected results:

- Error message stating invalid destination

Severity: Important

#### Test Case 12.8: Search for a ride offer with invalid input (past date)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of yesterday
  - time: 9:00am

##### Expected results:

- Error message stating invalid date

Severity: Important

#### Test Case 12.9a: Search for a ride offer with invalid input (true past time)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of today
  - time: 1 minute before current time

##### Expected results:

- Error message stating invalid time

Severity: Important

Test Case 12.9b: Search for a ride offer with past time but not past date

Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 1 minute before current time

Expected results:

- display list of rides matching the search criteria

Severity: Critical

Test Case 12.10: Search for a ride offer with empty input (empty pickup location)

Instructions:

1. Search by entering the following details:
  - pickup location: (leave blank)
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am

Expected results:

- Error message prompting for pickup location

Severity: Critical

Test Case 12.11: Search for a ride offer with empty input (empty destination)

Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: (leave blank)
  - date: date of tomorrow
  - time: 9:00am

Expected results:

- Error message prompting for destination

Severity: Critical

#### Test Case 12.12: Search for a ride offer with empty input (empty date)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: (leave blank)
  - time: 9:00am

##### Expected results:

- Error message prompting for pickup date

Severity: Critical

#### Test Case 12.13: Search for a ride offer with empty input (empty time)

##### Instructions:

1. Search by entering the following details:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: (leave blank)

##### Expected results:

- Error message prompting for pickup time

Severity: Critical

#### Test Case 12.14: Advanced search for a ride offer with valid input with matching result

##### Instructions:

1. Create the following ride offer with another user account:
  - Offer 1
    - pickup location: PMU, 101 Grant Street, West Lafayette, IN
    - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
    - date: date of tomorrow
    - time: 9:00am
    - number of seats available: 2
    - room for luggage: 3
    - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

#### Offer 2

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Purdue University Airport LAF, 1501 Aviation Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am (travel time from PMU to Haas is 5 mins)
- rest of the setting same as in offer 1

#### Offer 3

- pickup location: Purdue University Airport LAF, 1501 Aviation Dr, West Lafayette, IN
- destination: Horticulture Park, West Lafayette, IN
- date: date of tomorrow
- time: 9:15am (travel time from Haas to Discovery Parking is 4 mins)
- rest of the setting same as in offer 1

#### Offer 4

- pickup location: Horticulture Park, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of day after tomorrow
- time: 9:15am
- rest of the setting same as in offer 1

### 2. Do the following searches:

#### Search 1

- pickup location: Discovery Parking Lot, West Lafayette, IN (exactly 1 mile from PMU, 2.7 mile from LAF, 1.4 mile from Horticulture Park)
- destination: Earhart Residence Hall, 1275 1st Street, West Lafayette, IN (exactly 1 mile from Stadium, 1.8 mile from LAF, 0.8 mile from Horticulture Park)
- proximity of pickup location: 1 mile
- proximity of destination: 1 mile
- range of date: date of today to date of tomorrow
- range of time: 8:00am - 9:00am
- number of seats available: 2
- room for luggage: 3
- preferences (number of rides: 3)
- amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

#### Search 2

- number of seats available: 1
- room for luggage: 2
- rest of the criteria same as Search 1

### Search 3

- preferences (number of rides: 2)
- rest of the criteria same as Search 1

### Expected results:

- Only ride offers 2,3,4 created will be listed as a single trip on the list of search results for Search 1, 2.
- Only ride offers 2, 3 created will be listed as single trip on the list of search results for Search 3.

Severity: Critical

\*\*\* Assume we have the same ride offers created in Test Case 12.14 for the following Test Cases 12.15a - 12.15h \*\*\*

### Test Case 12.15a: Advanced search for a ride offer with no matching result (mismatched boundary proximity of pickup location)

#### Instructions:

1. Search by entering the following details with current account:
  - pickup location: Intramural Black Playing Fields, West Lafayette, IN (1.1 mile from PMU)
  - destination: Earhart Residence Hall, 1275 1st Street, West Lafayette, IN
  - proximity of pickup location: 1 mile
  - proximity of destination: 1 mile
  - range of date: date of today to date of tomorrow
  - range of time: 8:00am - 9:00am
  - number of seats available: 2
  - room for luggage: 3
  - preferences (number of rides: 3)
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

### Expected results:

- The ride offers created will not be on the list of the search results.

Severity: Critical



Test Case 12.15b: Advanced search for a ride offer with no matching result (mismatched boundary proximity of destination)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: Discovery Parking Lot, West Lafayette, IN
  - destination: Theta Tau Fraternity, 416 N Chauncey Ave, West Lafayette, IN (1.1 mile from Stadium)
  - proximity of pickup location: 1 mile
  - proximity of destination: 1 mile
  - range of date: date of today to date of tomorrow
  - range of time: 8:00am - 9:00am
  - number of seats available: 2
  - room for luggage: 3
  - preferences (number of rides: 3)
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride offers created will not be on the list of the search results.

Severity: Critical

Test Case 12.15c: Advanced search for a ride offer with no matching result (mismatched boundary range of date)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - range of date: date of day after tomorrow to date of 2 days after tomorrow
  - range of time: 8:00am - 9:00am
  - number of seat available: 2
  - room for luggage: 3
  - preferences (number of rides: 3)
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)
2. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN

- range of date: date of day before today to date of today
- range of time: 8:00am - 9:00am
- number of seat available: 2
- room for luggage: 3
- preferences (number of rides: 3)
- amenities (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride offers created will not be on the list of search results in any of the searches.

Severity: Critical

Test Case 12.15d: Advanced search for a ride offer with no matching result (mismatched boundary range of time)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - range of time: 8:00am - 8:59am
  - number of seats available: 2
  - room for luggage: 3
  - preferences (number of rides: 3)
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)
2. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - range of time: 9:01am - 10:00am
  - number of seats available: 2
  - room for luggage: 3
  - preferences (number of rides: 3)
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride offer created will not be on the list of search results in any of the searches.

Severity: Critical

Test Case 12.15e: Advanced search for a ride offer with no matching result (mismatched number of passengers)

Instructions:

1. Search by entering the following details with current account:
  - pickup location: PMU, 101 Grant Street, West Lafayette, IN
  - destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of seat available: 3
  - room for luggage: 3
  - preferences (number of rides: 3)
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride offer created will not be on the list of the search results.

Severity: Critical

Test Case 12.15f: Advanced search for a ride offer with no matching result (mismatched number of luggage)

Instructions:

1. Search by entering the following details with current account:
  - same pickup location, destination, date, time as Search in Test Case 12.15e
  - number of seats available: 2
  - room for luggage: 4
  - preferences (number of rides: 3)
  - amenities (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride offer created will not be on the list of the search results.

Severity: Critical

Test Case 12.15g: Advanced search for a ride offer with no matching result (mismatched preferences)

Instructions:

1. Do the following searches:

Search 1

- same pickup location, destination, date, time as Search in Test Case 12.15e
- number of seats available: 2
- room for luggage: 3
- preferences (number of rides: 2)
- amenities (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Search 2

- same pickup location, destination, date, time as Search in Test Case 12.15e
- number of seats available: 2
- room for luggage: 3
- preferences (number of rides: 4)
- amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected results:

- The ride offers created will not be on the list of the search results in any of the searches.

Severity: Critical

Test Case 12.15h: Advanced search for a ride offer with no matching result (mismatched amenities available)

Instructions:

1. Do the following searches one by one

Search 1:

- same pickup location, destination, date, time as Search in Test Case 12.15f
- number of seats available: 2
- room for luggage: 3
- preferences (number of rides: 3)
- amenities available (smoking allowed: No, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Search 2:

- same pickup location, destination, date, time as Search in Test Case 11.14e
- number of seats available: 2

- room for luggage: 3
- preferences (number of rides: 3)
- amenities available (smoking allowed: Yes, food and drinks allowed: No, pets allowed: Yes and air conditioning available: Yes)

Search 3:

- same pickup location, destination, date, time as Search in Test Case 11.14e
- number of seats available: 2
- room for luggage: 3
- preferences (number of rides: 3)
- amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: No and air conditioning available: Yes)

Search 4:

- same pickup location, destination, date, time as Search in Test Case 11.14e
- number of seats available: 2
- room for luggage: 3
- preferences (number of rides: 3)
- amenities available (smoking allowed: Yes, food and drinks allowed: No, pets allowed: Yes and air conditioning available: No)

Expected results:

- The ride offers created will not be on the list in any of the searches.

Severity: Critical

**User story 13: As a user, I would like to sort the search results based on distance between requested pickup location and actual pickup location (default), traveling time, pickup date and pickup time.**

Test Case 13.1: Sort ride request search by default

Instructions:

1. Create the following ride requests with another user account:

Request 1:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Hilltop Apartments, Hilltop Drive, West Lafayette
- date: date of day after tomorrow
- time: 9:00am
- number of passenger: 3
- number of luggage: 1

- preference (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Request 2:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of day after tomorrow
- time: 8:00am
- number of passenger: 3
- number of luggage: 1
- preference (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Request 3:

- pickup location: Discovery Parking Lot, West Lafayette, IN (exactly 1 mile from PMU)
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am
- number of passenger: 3
- number of luggage: 1
- preference (smoking allowed: No, food and drinks allowed: No, pets allowed: No and air conditioning available: No)

2. Search by entering the following details with current account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- proximity of pickup location: 1 mile
- proximity of destination: 1 mile
- range of date: date of tomorrow to date of day after tomorrow
- range of time: 8:00am-9:00am

Expected results:

- search results would be listed in the following order:  
Offer 1  
Offer 2  
Offer 3

Severity: Important

### Test Case 13.2: Sort ride request search by traveling time

#### Instructions:

(Assuming that we have the same created offers and search results from Test Case 13.1)

1. Click sort by Travelling time

#### Expected results:

- search results would be listed in the following order:  
Offer 2  
Offer 1  
Offer 3

Severity: Important

### Test Case 13.3: Sort ride request search by pick up date and time

#### Instructions:

(Assuming that we have the same created offers and search results from Test Case 13.1)

1. Click sort by pick up date and time

#### Expected results:

- search results would be listed in the following order:  
Offer 3  
Offer 2  
Offer 1

Severity: Important

### Test Case 13.4: Sort ride offer search by default

#### Instructions:

1. Create the following ride offers with another user account:

##### Offer 1:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Hilltop Apartments, Hilltop Drive, West Lafayette
- date: date of day after tomorrow
- time: 9:00am
- number of seats available: 3
- room for luggage: 1
- amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Offer 2:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of day after tomorrow
- time: 8:00am
- number of seats available: 3
- room for luggage: 1
- amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Offer 3:

- pickup location: Discovery Parking Lot, West Lafayette, IN (exactly 1 mile from PMU)
- destination: Purdue University Airport LAF, 1501 Aviation Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:00am
- number of seat available: 3
- room for luggage: 1
- amenities available (smoking allowed: No, food and drinks allowed: No, pets allowed: No and air conditioning available: No)

Offer 4:

- pickup location: Purdue University Airport LAF, 1501 Aviation Dr, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- date: date of tomorrow
- time: 9:15am (Travel time from PMU to Haas is 5 mins)
- number of seat available: 3
- room for luggage: 1
- amenities available (smoking allowed: No, food and drinks allowed: No, pets allowed: No and air conditioning available: No)

2. Search by entering the following details with current account:

- pickup location: PMU, 101 Grant Street, West Lafayette, IN
- destination: Ross-Ade Stadium, 850 Steven Beering Dr, West Lafayette, IN
- proximity of pickup location: 1 mile
- proximity of destination: 1 mile
- range of date: date of tomorrow to date of day after tomorrow
- range of time: 8:00am-9:00am



Expected results:

- search results would be listed in the following order:  
Offer 1  
Offer 2  
Offer 3 + 4

Severity: Important

#### Test Case 13.5: Sort ride offer search by traveling time

Instructions:

(Assuming that we have the same created offers and search results from Test Case 13.4)

1. Click sort by Travelling time

Expected results:

- search results would be listed in the following order:  
Offer 2  
Offer 1  
Offer 3 + 4

Severity: Important

#### Test Case 13.6: Sort ride offer search by pick up date and time

Instructions:

(Assuming that we have the same created offers and search results from Test Case 13.4)

1. Click sort by pick up date and time

Expected results:

- search results would be listed in the following order:  
Offer 3 + 4  
Offer 2  
Offer 1

Severity: Important

**User story 14: As a user, I would like to join a single ride offer as a passenger with the specification of number of passengers and luggage.**

Test Case 14.1: Select a single ride offer

Instructions:

1. Click on the desired ride that appears on the available list

Expected results:

- Popup box appears with a drop down menu to choose the number of passengers and luggage

Severity: Critical

Test Case 14.2a: Number of passengers and luggage within the range

Instructions:

1. Driver offers rooms for 2 seats and 2 luggage.
2. Passenger chooses 1 passenger and 1 luggage
3. Click “Submit” button

Expected results:

- Popup box displays ride offer details
- Email successfully sent to driver

Severity: Critical

Test Case 14.2b: Number of passengers and luggage within the range (on the inclusive boundary)

Instructions:

1. Driver offers rooms for 2 seats and 2 luggage.
2. Passenger chooses 2 passenger and 2 luggage
3. Click “Submit” button

Expected results:

- Popup box displays ride offer details
- Notification email successfully sent to driver

Severity: Critical

#### Test Case 14.3: Number of passengers is out of the range that the driver posted

##### Instructions:

1. Driver offers rooms for 2 seats and 2 luggage.
2. Passenger chooses 3 passengers and 2 luggage
3. Click “Submit” button

##### Expected results:

- Message appears saying “The number of passengers does not meet the ride’s criteria”

Severity: Critical

#### Test Case 14.4: Number of luggage is out of the range that the driver posted

##### Instructions:

1. Driver offers rooms for 2 seats and 2 luggage.
2. Passenger chooses 2 passengers and 3 luggage
3. Click “Submit” button

##### Expected results:

- Message appears saying “The number of luggage does not meet the ride’s criteria”

Severity: Critical

#### Test Case 14.5: Number of passengers and luggage are out of the range that the driver posted

##### Instructions:

1. Driver offers rooms for 2 seats and 2 luggage.
2. Passenger chooses 3 passengers and 3 luggage
3. Click “Submit” button

##### Expected results:

- Message appears saying “The number of passengers and luggage do not meet the ride’s criteria”.

Severity: Critical

#### Test Case 14.6: Number of passengers and luggage are not chosen

##### Instructions:

1. Passengers leaves both the numbers of passengers and luggage at default (passenger: 1, luggage: 0).

2. Click “Submit” button

Expectation:

- Popup box displays ride offer details
- Notification email successfully sent to driver

Severity: Critical

#### Test Case 14.6: Join ride offer button

Instructions:

1. Click “Join” button

Expected results:

- Popup box appears with the price of the ride offer. There will also be a button to reserve points based on the price of the ride offer with the points you currently own.

Severity: Critical

#### Test Case 14.7: Join ride offer button, Sufficient Points

Instructions:

1. Click “Join ” button

Expected results:

- Message appears saying “Successfully joined User X’s ride offer”.

Severity: Critical

#### Test Case 14.8: Join ride offer button, Insufficient Points

Instructions:

1. Click “Join” button

Expected results:

- Error message appears saying “Failed to join ride offer. Insufficient points.”

Severity: Critical

**User Story 15: As a user, I would like to join multiple rides as a single trip.**

Test Case 15.1: Join multiple rides

Instructions:

1. Passenger clicks “Join” button from the search result of a trip of multiple rides

Expectation:

- A list of recommended multiple rides is displayed

Severity: Critical

Test Case 15.2: Confirm multiple rides

Instructions:

1. Click “Confirm rides” button.

Expectation:

- Dialog of joined ride details appears

Severity: Critical

Test Case 15.3: Submit request for multiple rides trip

Instructions:

1. Click “Submit” button.

Expectation:

- A notification email is sent to all the drivers who offer the rides

Severity: Critical

**User Story 16: As a user, I would like to be able to change the rides manually in a recommended single trip.**

Test Case 16.1: Change button

Instructions:

1. Click “Change” button on the rides that passenger wants to change

Expectation:

- Navigate to a page where a list of in between rides appear, each of them has a checkbox below to select

Severity: Critical

Test Case 16.2: Change rides with two ticked checkbox

Instructions:

1. Tick two checkboxes.
2. Click "Search" button

Expectation:

- List of rides between the two locations with ticked checkboxes.

Severity: Critical

Test Case 16.3: Change rides with only one ticked checkbox

Instructions:

1. Tick 1 checkbox.
2. Click "Search" button

Expectation:

- Error message saying "Requires 2 locations to change rides."

Severity: Workaround

Test.16.4 Change rides with more than two ticked checkboxes.

Instructions:

1. Tick more than 2 checkboxes.
2. Click "Search" button

Expectation:

- Error message saying "Requires 2 locations to change rides."

Severity: Workaround

#### Test Case 16.5: Confirm button

Instructions:

1. Click “Confirm” button

Expectation:

- Trip is updated with the new rides.

Severity: Critical

**User Story 17: As a user, I would like to view my joined ride offers.**

#### Test Case 17.1: View Joined ride offers

Instructions:

1. Click on “My Rides” button.

Expectation:

- Navigate to “My Rides” page.

Severity: Critical

#### Test Case 17.2: Joined Ride Offers

Instructions:

1. Click on “My Joined Ride Offers” tab.

Expectation:

- Shows a list of joined ride offers.

Severity: Critical

**User Story 18: As a user, I would like to accept a ride request as a driver.**

#### Test Case 18.1: Ride request “Accept” button

Instructions:

1. Click on the “Accept” button

Expectation:

- A confirm dialog appears. There will also be a button to reserve points based on the price of the ride request with the points you currently own.

Severity: Critical

### Test Case 18.2: Dialog confirm button

#### Instructions:

1. Click on the “Confirm” button in the dialog

#### Expectation:

- The confirm dialog disappears.
- A confirmation box about ride request being accepted is displayed
- A notification email is sent to the passenger

Severity: Critical

### Test Case 18.3: Dialog cancel button

#### Instructions:

1. Click on the “Cancel” button in the dialog

#### Expectation:

- The confirm dialog disappears
- The ride request will not be accepted by the driver.

Severity: Workaround

### Test Case 18.4: Accept ride request, Sufficient Points

#### Instructions:

1. Click on the “Accept” button

#### Expected results:

- Message appears saying “Successfully accepted User X’s ride request”.

Severity: Critical

### Test Case 18.5: Accept ride request, Insufficient Points

#### Instructions:

1. Click on the “Accept” button

#### Expected results:

- Error message appears saying “Failed to accept ride request. Insufficient points.”

Severity: Critical



**User Story 19: As a user, I would like to view my accepted ride requests.**

Test Case 19.1: View Ride Request

Instructions:

1. Click on “My Rides” button.

Expectation:

- Navigate to “My Rides” page.

Severity: Critical

Test Case 19.2: Joined Ride Request

Instructions:

1. Click on “My Accepted Ride Requests” tab.

Expectation:

- Shows a list of accepted ride requests.

Severity: Critical

**User Story 20: As a user, I would like to cancel my joined ride offers or accepted ride requests.**

Test Case 20.1: Cancel Ride

Instructions:

1. Navigate to ‘My Rides’ page.

Expectation:

- Four tabs of list of rides appears
- Each ride has its cancel button

Severity: Critical

Test Case 20.2: Cancel joined ride offers more than 2 days

Instructions:

1. Click on “Cancel” button when there are still more than 2 days left before departure.

Expectation:

- Confirm cancel dialog appears saying “Are you sure you want to cancel your joined ride?”.

Severity: Important

#### Test Case 20.3: Cancel Joined ride offers 0-2 days

Instructions:

1. Click on “Cancel” button when there are 0-2 days left before departure.

Expectation:

- Confirm cancel dialog appears saying “Are you sure you want to cancel your joined ride? You will get penalty.”.

Severity: Critical

#### Test Case 20.4: Cancel accepted ride requests more than 2 days

Instructions:

1. Click on “Cancel” button when there are still more than 2 days left before departure.

Expectation:

- Confirm cancel dialog appears saying “Are you sure you want to cancel your accepted ride request?”.

Severity: Important

#### Test Case 20.5: Cancel accepted ride requests 0-2 days

Instructions:

1. Click on “Cancel” button when there are 0-2 days left before departure.

Expectation:

- Confirm cancel dialog appears saying “Are you sure you want to cancel your joined ride? You will get penalty.”.

Severity: Critical

**User Story 21: As a user, I would like to update the number of passengers and luggage of my joined ride offer.**

Test Case 21.1: Update Ride

Instructions:

1. Click “Update” button on “My Rides” page.

Expectation:

- A dialog about the ride’s details appears

Severity: Critical

Test Case 21.2a: Update passenger and luggage within available rooms

Instructions:

1. Driver offers rooms for 4 passengers and 3 luggage
2. Passenger changes number of passengers from 2 to 3, number of luggage from 1 to 2

Expectation:

- Message appears saying “Are you sure you want to make these changes?”.

Severity: Critical

Test Case 21.2b: Update passenger and luggage within available rooms (boundary of range)

Instructions:

1. Driver offers rooms for 4 passengers and 3 luggage
2. Passenger changes number of passengers from 3 to 4, number of luggage from 2 to 3

Expectation:

- Message appears saying “Are you sure you want to make these changes?”.

Severity: Critical

Test Case 21.3: Update passenger within but luggage over room’s limit

Instructions:

1. Driver offers rooms for 3 passengers and 2 luggage
2. Passenger changes number of passengers from 2 to 3, number of luggage from 2 to 3

Expectation:

- Message appears saying “Not enough rooms, please re enter the number of luggage”

Severity: Critical

#### Test Case 21.4: Update luggage within but passenger over room's limit

Instructions:

1. Driver offers rooms for 2 passengers and 2 luggage
2. Passenger changes number of passengers from 2 to 3, number of luggage from 1 to 2

Expectation:

- Message appears saying “Not enough rooms, please re enter the number of passengers.”

Severity: Critical

#### Test Case 21.5: Update luggage and passenger over room's limit

Instructions:

1. Driver offers rooms for 2 passengers and 2 luggage
2. Passenger changes number of passengers from 2 to 3, number of luggage from 1 to 3

Expectation:

- Message appears saying “Not enough rooms, please re enter the number of luggage and passengers”

Severity: Critical

#### Test Case 21.6: Submit update within available rooms

Instructions:

1. Click “Submit” button.

Expectation:

- Message appears saying “Your changes have been saved”.

Severity: Critical

#### Test Case 21.6: Cancel update

Instructions:

1. Click “Cancel” button.

Expectation:

- Changes are not saved and dialog disappears.

Severity: Critical

**User Story 22: As a user, I would like to pay points as a passenger for a joined ride offer or an accepted ride request.**

Test Case 22.1: Pay points as passenger for a joined ride offer, Picked up

Instructions:

1. Join a ride offer.
2. Driver and Passenger sends pickup code.

Expected results:

- Message appears saying “User X has been picked up”.
- Reserved point balance of the passenger will be deducted with the price of the ride offer.

Severity: Critical

Test Case 22.2: Pay points as passenger for a joined ride offer, Driver does not show up

Instructions:

1. Join a ride offer.
2. Driver fails to send pick up code

Expected results:

- Error message appears saying “Driver did not show up.”.
- Reserved point balance of the driver will be deducted with the price of the ride offer.
- Reserved point balance of the passenger will be deducted with the price of the ride offer.
- Point balance of the passenger will be added with the price of the ride offer.

Severity: Important

Test Case 22.3: Pay points as passenger for a joined ride offer, Passenger does not show up.

Instructions:

1. Join a ride offer.
2. Passenger fails to send pick up code

Expected results:

- Error message appears saying “Passenger did not show up”.
- Reserved point balance of the driver will be deducted with the price of the ride offer.

- Reserved point balance of the passenger will be deducted with the price of the ride offer.
- Point balance of the driver will be added with the price of the ride offer.

Severity: Important

Test Case 22.4: Pay points as a passenger for an accepted ride request, Picked up

Instructions:

1. A user accepts your ride request.
2. Driver and passenger sends pick up code.

Expected results:

- Message saying "User X has been picked up".
- Reserved point balance of the passenger will be deducted with the price of the ride request.

Severity: Critical

Test Case 22.5: Pay points as a passenger for an accepted ride request, Driver does not show up.

Instructions:

1. A user accepts your ride request.
2. Driver fails to send pick up code.

Expected results:

- Error message appears saying "Driver did not show up."
- Reserved point balance of the driver will be deducted with the price of the ride request.
- Reserved point balance of the passenger will be deducted with the price of the ride request.
- Point balance of the passenger will be added with the price of the ride request.

Severity: Important

Test Case 22.6: Pay points as a passenger for an accepted ride request, Passenger does not show up.

Instructions:

1. A user accepts your ride request.
2. Passenger fails to send pick up code.

Expected results:

- Error message appears saying "Passenger did not show up."
- Reserved point balance of the driver will be deducted with the price of the ride request.
- Reserved point balance of the passenger will be deducted with the price of the ride request.

- Point balance of the driver will be added with the price of the ride request.

Severity: Important

**User Story 23: As a user, I would like to receive points as a driver for a joined ride offer or an accepted ride request.**

Test Case 23.1: Receive points as a driver for a joined ride offer, Picked up

Instructions:

1. A user joins your ride offer
2. Driver and Passenger sends pick up code.

Expected results:

- Message saying “User X has been picked up”.
- Reserved point balance of the driver will be deducted with the price of the ride offer.
- Reserved point balance of the passenger will be deducted with the price of the ride offer.
- Point balance of the driver will be added with the price of the ride offer.

Severity: Critical

Test Case 23.2: Receive points as a driver for a joined ride offer, Driver does not show up

Instructions:

1. A user joins your ride offer
2. Driver fails to send pick up code.

Expected results:

- Error message appears saying “Driver did not show up”.
- Reserved point balance of the driver will be deducted with the price of the ride offer.
- Reserved point balance of the passenger will be deducted with the price of the ride offer.
- Point balance of the passenger will be added with the price of the ride offer.

Severity: Important

Test Case 23.3: Receive points as a driver for a joined ride offer, Passenger does not show up

Instructions:

3. A user joins your ride offer
4. Passenger fails to send pick up code.

Expected results:

- Error message appears saying “Passenger did not show up”.
- Reserved point balance of the driver will be deducted with the price of the ride offer.
- Reserved point balance of the passenger will be deducted with the price of the ride offer.
- Point balance of the driver will be added with the price of the ride offer.

Severity: Important

Test Case 23.4: Receive points as driver for an accepted ride request, Picked up

Instructions:

1. Accept a ride request.
2. Driver and Passenger sends pick up code.

Expected results:

- Message saying "User X has been picked up".
- Reserved point balance of the driver will be deducted with the price of the ride request.
- Reserved point balance of the passenger will be deducted with the price of the ride request.
- Point balance of the driver will be added with the price of the ride offer.

Severity: Critical

Test Case 23.5: Receive points as driver for an accepted ride request, Driver does not show up

Instructions:

1. Accept a ride request.
2. Driver fails to send pick up code.

Expected results:

- Error message saying "Driver did not show up".
- Reserved point balance of the driver will be deducted with the price of the ride request.
- Reserved point balance of the passenger will be deducted with the price of the ride request.
- Point balance of the passenger will be added with the price of the ride request.

Severity: Important

Test Case 23.6: Receive points as driver for an accepted ride request, Passenger does not show up

Instructions:

1. Accept a ride request.
2. Passenger fails to send pick up code.

Expected results:

- Error message saying "Passenger did not show up".
- Reserved point balance of the driver will be deducted with the price of the ride request.
- Reserved point balance of the passenger will be deducted with the price of the ride request.
- Point balance of the driver will be added with the price of the ride request.

Severity: Important



**User Story 24: As a user, I would be penalized for 50%, 75% and 100% of the price of the ride if I canceled the ride 2 days before, 1 day before and on the day of the departure time respectively.**

Test Case 24.1: Point penalty for canceling ride offer, 2 days before, Driver canceled.

Instructions:

1. Driver cancels created ride offer 2 days before departure time.

Expected results:

- Point balance of user that created the ride offer would be deducted by 50% of the price of the ride offer.

Severity: Critical

Test Case 24.2: Point penalty for canceling ride offer, 2 days before, Passenger canceled.

Instructions:

1. Passenger cancels joined ride offer 2 days before departure time.

Expected results:

- Point balance of user that joined the ride offer would be deducted by 50% of the price of the ride offer.

Severity: Critical

Test Case 24.3: Point penalty for canceling ride offer, 1 day before, Driver canceled.

Instructions:

1. Driver cancels created ride offer 1 day before departure time.

Expected results:

- Point balance of user that created the ride offer would be deducted by 75% of the price of the ride offer.

Severity: Critical

Test Case 24.4: Point penalty for canceling ride offer, 1 day before, Passenger canceled.

Instructions:

1. Passenger cancels joined ride offer 2 days before departure time.

Expected results:

- Point balance of user that joined the ride offer would be deducted by 75% of the price of the ride offer.

Severity: Critical

Test Case 24.5: Point penalty for canceling ride offer, on the day of the departure time, Driver canceled.

Instructions:

1. Driver cancels created ride offer on the day of the departure time.

Expected results:

- Point balance of user that created the ride offer would be deducted by 100% of the price of the ride offer.

Severity: Critical

Test Case 24.6: Point penalty for canceling ride offer, on the day of the departure time, Passenger canceled.

Instructions:

1. Passenger cancels created ride offer on the day of the departure time.

Expected results:

- Point balance of user that joined the ride offer would be deducted by 100% of the price of the ride offer.

Severity: Critical

Test Case 24.7: Point penalty for canceling ride request, 2 days before, Driver canceled.

Instructions:

1. Driver cancels accepted ride request 2 days before departure time.

Expected results:

- Point balance of user that accepted the ride request would be deducted by 50% of the price of the ride request.

Severity: Critical

Test Case 24.8: Point penalty for canceling ride request, 2 days before, Passenger canceled.

Instructions:

1. Passenger cancels created ride request 2 days before departure time.

Expected results:

- Point balance of user that created the ride request would be deducted by 50% of the price of the ride request.

Severity: Critical

Test Case 24.9: Point penalty for canceling ride request, 1 day before, Driver canceled.

Instructions:

1. Driver cancels accepted ride request 1 day before departure time.

Expected results:

- Point balance of user that accepted the ride request would be deducted by 75% of the price of the ride request.

Severity: Critical

Test Case 24.10: Point penalty for canceling ride request, 1 day before, Passenger canceled.

Instructions:

1. Passenger cancels created ride request 1 day before departure time.

Expected results:

- Point balance of user that created the ride request would be deducted by 75% of the price of the ride request.

Severity: Critical

Test Case 24.11: Point penalty for canceling ride request, on the day of the departure time, Driver canceled.

Instructions:

1. Driver cancels accepted ride request on the day of the departure time.

Expected results:

- Point balance of user that accepted the ride request would be deducted by 100% of the price of the ride request.

Severity: Critical

Test Case 24.12: Point penalty for canceling ride request, on the day of the departure time, Passenger canceled.

Instructions:

1. Passenger cancels created ride request on the day of the departure time.

Expected results:

- Point balance of user that created the ride request would be deducted by 100% of the price of the ride request.

Severity: Critical

**User Story 25: As a user, I would have a portion of my points (price of my ride) reserved to ensure that I would be able to pay for my rides or pay for penalties.**

Test Case 25.1: Create ride request button

Instructions:

1. Click “Create ride request” button

Expected results:

- Popup box appears with the price of the ride request. There will also be a button to reserve points based on the the price of the ride request with the points you currently own.

Severity: Critical

Test Case 25.2: Reserve points for a created ride request, Sufficient points

Instructions:

1. Create a ride request with sufficient points.

Expected results:

- Point balance of the passenger will be deducted with the price of the ride request.
- Reserved point balance of the passenger will be added with the price of the ride request.

Severity: Critical

Test Case 25.3: Reserve points for an accepted ride request, Sufficient points

Instructions:

1. Accept a ride request with sufficient points

Expected results:

- Point balance of the driver will be deducted with the price of the ride request.
- Reserved point balance of the driver will be added with the price of the ride request.

Severity: Critical

Test Case 25.4: Reserve points for a created ride request, Insufficient points

Instructions:

2. Create a ride request with insufficient points.

Expected results:

- Error message saying “Failed to create ride request. Insufficient points”.

Severity: Important

Test Case 25.5: Reserve points for an accepted ride request, Insufficient points

Instructions:

2. Accept a ride request with insufficient points

Expected results:

- Error message saying “Failed to accept ride request. Insufficient points”.

Severity: Important

Test Case 25.6: Create ride offer button

Instructions:

2. Click “Create ride offer” button

Expected results:

- Popup box appears with the price of the ride offer. There will also be a button to reserve points based on the the price of the ride offer with the points you currently own.

Severity: Critical

Test Case 25.7: Reserve points for a created ride offer, Sufficient points.

Instructions:

1. Create a ride offer with sufficient points.

Expected results:

- Point balance of the driver will be deducted with the price of the ride offer.
- Reserved point balance of the driver will be added with the price of the ride offer.

Severity: Critical

Test Case 25.8: Reserve points for a joined ride offer, Sufficient points.

Instructions:

1. Create a ride offer with sufficient points.

Expected results:

- Point balance of the passenger will be deducted with the price of the ride offer.
- Reserved point balance of the passenger will be added with the price of the ride offer.

Severity: Critical

Test Case 25.9: Reserve points for a created ride offer, Insufficient points.

Instructions:

1. Create a ride offer with insufficient points.

Expected results:

- Error message appears saying “Failed to create ride offer. Insufficient points.”

Severity: Important

Test Case 25.10: Reserve points for a joined ride offer, Insufficient points.

Instructions:

1. Join a ride offer with insufficient points

Expected results:

- Error message appears saying “Failed to join ride offer. Insufficient points.”

Severity: Important

**User Story 26: As a user, I would like to view my point balance.**

Test Case 26.1: View Point Balance.

Instructions:

1. Click “My Points” button.

Expected results:

- Shows current point balance.

Severity: Critical

**User Story 27: As a user, I would like to view my point transaction history.**

Test Case 27.1: Point transaction history button.

Instructions:

1. Click on “Transaction History”.

Expected results:

- Navigate to Transaction History page.

Severity: Critical

Test Case 27.2: View point transaction history.

Instructions:

1. Navigate to Transaction History page.

Expected results:

- Show list of point transaction history.

Severity: Critical

**User Story 28: As a user, I would like the application to automatically set the price of my ride offer based on the distance between pickup location and destination.**

Test Case 28.1: Valid addresses for pickup location and destination within a same city.

Instruction:

1. Create the following ride offer:
  - pickup location: 101 Grant Street, West Lafayette, IN
  - destination: 850 Steven Beering Dr, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 10
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected Result:

- Getting correct price of the ride offer.

Severity: Critical.

Test Case 28.2: Valid addresses for pickup location and destination between different cities.

Instruction:

1. Create the following ride offer:
  - pickup location: 101 Grant Street, West Lafayette, IN
  - destination: 1401 W Green St, Urbana, IL
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 10
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected Result:

- Getting correct price of the ride offer.

Severity: Critical.

Test Case 28.3: Same address for pickup location and destination.

Instruction:

1. Create the following ride offer:
  - pickup location: 101 Grant Street, West Lafayette, IN
  - destination: 101 Grant Street, West Lafayette, IN
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 10
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected Result:

- Getting an error message saying “You cannot set pickup location and destination to a same address”.

Severity: Important.

Test Case 28.4: Invalid addresses for pickup location and destination.

Instruction:

1. Create the following ride offer:
  - pickup location: ^5^\$asd\*(^&%
  - destination: %^qwe\$\*(&)
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 10
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected Result:

- Getting an error message saying “Please enter valid addresses”.

Severity: Important.



Test Case 28.5: Addresses outside of the contiguous U.S. for pickup location and destination.

Instruction:

1. Create the following ride offer:
  - pickup location: 101 Grant Street, West Lafayette, IN
  - destination: 12130 Regency Dr, Eagle River, AK
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 10
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected Result:

- Getting an error message saying “Please enter addresses within the contiguous U.S.”.

Severity: Important.

Test Case 28.6: Addresses of foreign countries for pickup location and destination.

Instruction:

1. Create the following ride offer:
  - pickup location: 101 Grant Street, West Lafayette, IN
  - destination: 325 Bay St, Toronto, ON
  - date: date of tomorrow
  - time: 9:00am
  - number of passengers: 3
  - number of luggage: 10
  - amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected Result:

- Getting an error message saying “Please enter addresses within the contiguous U.S.”.

Severity: Important.

Test Case 28.7: empty addresses for pickup location and destination.

Instruction:

1. Create the following ride offer:
  - pickup location:

- destination:
- date: date of tomorrow
- time: 9:00am
- number of passengers: 3
- number of luggage: 10
- amenities available (smoking allowed: Yes, food and drinks allowed: Yes, pets allowed: Yes and air conditioning available: Yes)

Expected Result:

- Getting an error message saying “Please enter valid addresses”.

Severity: Important.

**User Story 29: As a user, I would like to confirm that I have been picked up or delivered by the driver.**

Test Case 29.1: Confirmation code generation.

Instruction:

1. Driver and Passenger clicks on the get pickup code button.

Expected Result:

- Driver and Passenger getting a server generated confirmation code.

Severity: Critical.

Test Case 29.2: Confirmation code effectiveness.

Instruction:

1. Driver and Passenger clicks on enter pickup code button
2. Driver and Passenger enters the generated code.

Expected Result:

- Driver getting a message saying “Successfully picked up passenger”.

Severity: Critical.

Test Case 29.3: Enter random code without clicking get pickup code button, Driver

Instruction:

1. Not click on the get pickup code button and enters random code.

Expected Result:

- Driver getting an error message saying “Passenger has not confirmed yet”.

Severity: Important

Test Case 29.4: Enter random code without clicking get pickup code button, Passenger

Instruction:

2. Not click on the get pickup code button and enters random code.

Expected Result:

- Passenger getting an error message saying “Driver has not confirmed yet”.

Severity: Important

Test Case 29.5: Enter random code with clicking get pickup code button, Driver

Instruction:

1. Passenger clicks on the get pickup code button
2. Driver clicks on enter pickup code button
3. Driver enters random code.

Expected Result:

- Driver getting an error message saying “Incorrect code, please ask passenger for the correct code”.

Severity: Important.

Test Case 29.6: Enter random code with clicking get pickup code button, Passenger

Instruction:

4. Driver clicks on the get pickup code button
5. Passenger clicks on enter pickup code button
6. Passenger enters random code.

Expected Result:

- Passenger getting an error message saying “Incorrect code, please ask driver for the correct code”.

Severity: Important.

Test Case 29.7: Enter empty code without clicking get pickup code button, Driver

Instruction:

1. Not click on the get pickup code button
2. Driver clicks on enter pickup code button
3. Driver enters empty code.

Expected Result:

- Driver getting an error message saying “Passenger has not confirmed yet”.

Severity: Important

Test Case 29.8: Enter empty code without clicking get pickup code button, Passenger

Instruction:

4. Not click on the get pickup code button
5. Passenger clicks on enter pickup code button
6. Passenger enters empty code.

Expected Result:

- Passenger getting an error message saying “Driver has not confirmed yet”.

Severity: Important

Test Case 29.9: Enter empty code with clicking get pickup code button, Driver.

Instruction:

1. Passenger clicks on the get pickup code button
2. Driver enters empty code.

Expected Result:

- Driver getting an error message saying “Incorrect code, please ask passenger for the correct code”.

Severity: Important.

Test Case 29.10: Enter empty code with clicking get pickup code button, Passenger.

Instruction:

3. Driver clicks on the get pickup code button
4. Passenger enters empty code.

Expected Result:

- Passenger getting an error message saying “Incorrect code, please ask driver for the correct code”.

Severity: Important.