# Lana Test QA

## Test Cases

1. Calculation of the price(1)
2. Executive price is 10% more expensive than Lite
   1. Description: Travels on Executive type of car is 10% more expensive than Lite type of car
   2. Steps:
      1. Calculate a journey price selecting type of car Lite
      2. Calculate the same journey price but selecting type of car Executive
   3. Expected Behavior:
      1. Price is 10% more expensive
3. Wrong captcha message is shown if user enters captcha from previous session
   1. Description: User should not be able to use a token generated from a previous login session
   2. Steps:
      1. Login to the app and get the token code
      2. Logout
      3. Login again into the app an go to calculate price
      4. Calculate a journey price by using the token code from the first login session.
   3. Expected Behavior:
      1. Wrong captcha message should be displayed on screen.
4. Wrong captcha message is shown if user enters captcha of another user
   1. Description: User should not be able to use a token generated for a different user
   2. Steps:
      1. Login to the app with user X and get the token
      2. Logout from the app
      3. Login again into the app but with user Y
      4. Calculate the price of a journey using the token of user X
   3. Expected Behavior:
      1. Wrong captcha message should be displayed on screen.
5. Wrong captcha message is shown if no captcha is entered
   1. Description: captcha token is mandatory
   2. Steps:
      1. Login to the app and and get the token
      2. Go to Price Calculator screen
      3. Calculate the price of a journey leaving the captcha field empty
   3. Expected Behavior:
      1. Wrong captcha message should be displayed on screen.
6. Request a travel with different pickup/dropoff points using previous estimate
   1. Description: Request a car with pickup and drop off point from previous estimate
   2. Steps:
      1. Login to the app and go to Price Calculator screen
      2. Calculate the price of a journey from point A to point B
      3. Change the pickup and dropoff point but do not tap on estimate
      4. Tap on request Car
   3. Expected Behavior:
      1. Since no access to User Story, suggestions:
         1. Request button should be enabled only after tapping on the estimate button? And then disabled if anything changes on the journey settings?
         2. If clicking on Request button then Estimate + Request is performed ( similar to I am feeling lucky from google search )
7. Type of car is mandatory
   1. Not sure what should be the behavior here. Should be discussed along with the team.
8. User cannot tick both type of cars
   1. Not sure what should be the behavior here. Should be discussed along with the team.
9. Pick up and drop off point are equal
   1. Should this be allowed?. To be clarified with the team.
10. Performance (minimum response time, load, stress)
11. Compatibility of operating system versions and devices (needs requirements)
12. Connectivity, lost connection while estimating / requesting

(1) Regarding the calculation of the price:

* 1. The calculation is based on the token (previous screen) + Type of car + pickup and dropoff.
  2. About the token generation, since there is no specification on how the token is generated, for this exercise I’ll assume the algorithm to generate the token is not part of this development.
  3. In the case that the token generation would be part of the development, as it seems to be not an easy task, and and error can have a high impact in the business and, the likelihood of a bug is also medium-high (several variables are into the game here), following a Risk Based Testing approach, I’d invest the necessary time to make sure acceptance criterias are well defined (no ambiguities, no gaps in the variables) and a full set of examples (we can use gherkin here) are defined and reviewed in a three amigos session. The idea here is that everybody is on the same page regarding the understanding of the calculation.

## Bugs found:

1. Users can request a car using a previous estimation but with different pickup and dropoff points.

* Steps to reproduce:
  + Login and go to calculate price
  + Select pick up Atocha, drop off Barajas airport T4, type of car lite and correct captcha
  + Tap on estimate
  + Change pickup to Barajas Airport T4, drop off to Calle Pradillo 42 and type of car executive
  + Click on Request a car
* Expect/ed Behavior:
  + ND (since no User Story is provided for this exercise)
* Current Behavior:
  + User request a car from Barajas to Pradillo in Executive type of car for the price of Atocha to Barajas in Lite type of car
* Possible solutions:
  + Clicking request a car does not perform any validation
  + If settings are changed the request car button can be disabled

1. Misspelled: “Selet your origin and destination:”
2. Look and Feel: The Price in “Past Journeys” screen spans into two different lines.
3. Both types of car can be selected
4. Type of car is not mandatory
5. Past journeys should be sorted from earliest to oldest

## Regression:

* Since this is a new feature that relates to the existing price calculation (assuming there is one of course), I would run a regression set on the current calculation.
* What would happen if I use the current price calculation to calculate the price between the same two points used in this new feature, should it be the same?

## Improvements to functionality:

* Pickup and drop off preselected based on previous journey requests
* Pickup preselected based on location
* Requested Journey list should be sorted desc instead of asc

## Notes regarding the exercise:

* Along with the app, a user story can be provided. This way we can also work on the revision of the User Story for functional gaps and ambiguities. Also, the test cases can be defined properly.
* For the automated tests, I used a physical device running Android 9 with EMUI
* This is the first time I automate for mobile.
* Next steps:
  + Configuration file for running on different environments
  + Test data file, this way we can move all of the constants defined in the test class to a single file