

TEST SEQUENCES(TS)

1. REGISTER/LOGIN/ADD NEW BIKE

- 1.1. Enter username only and try to register. Enter password and register.
- 1.2. Login with previous registered credentials. Try to fail password intentionally.
- 1.3. Since it is the first time of running the app it will ask for permissions. Accept GPS data and decline the use of the Camera.
- 1.4. Click Manage Bikes Button.
- 1.5. Click Add New Bike Button.
- 1.6. Try to Capture Image, it will ask for permission to use the Camera. Accept it.
- 1.7. Click Add New Bike Button again.
- 1.8. Enter the information asked but leave the name slot empty.
- 1.9. Enter a name for the bike and click Add Bike.
- 1.10. Go back to the Manage Bikes Screen and click Show Data Button to check if the bike was added successfully.
- 1.11. Select the bike by clicking it and then press the Bike Info Button.

2. TS1 + START RIDE/ END RIDE/ FIND BIKE

- 2.1. From the BikeShare screen click the button Start Ride.
- 2.2. Since there is only one bike and the location is setted automatically we can press Start Ride directly.
- 2.3. Try to repeat from step 2.1 and now there will not be any bike available.
- 2.4. Go back to the BikeShare screen and click the End Ride Button.
- 2.5. Since there is only one bike on a ride, we can directly press the red button End Ride. A pop-up will show up informing the user of the total duration and price of the ride.
- 2.6. Go back to the BikeShare screen and click the List Rides Button to update the ride's list.
- 2.7. Now, click the Find a Bike Button and check if the bike is located in the place where the ride ended.

3. TS1 + FAKE START RIDE/DELETE RIDE

- 3.1. From the BikeShare screen click the button Start Ride.
- 3.2. Select one of the bikes availables.
- 3.3. Change the starting place address to a fake address and press Start Ride.
- 3.4. Go back to the BikeShare screen and press the List Rides Button. As you can see the app ignores the user's, intentional or unintentional,

mistakes and the location is always obtained using GPS or Internet services.

4. TS3 + HORIZONTAL DISPLAY + DELETE BIKE

- 4.1. With the app on the BikeShare screen unlock the spinning of the screen.
- 4.2. As we can see, for example, the Find Bike Button does not appear in the screen. We have checked the app does not support the horizontal mode.
- 4.3. Going back to the vertical mode, click the ManageBikes Button on the right top corner.
- 4.4. Click Show Data in order to see the bikes.
- 4.5. Select the only bike that should exist and next, click the Delete Bike Button.
- 4.6. A pop-up will show up and we confirm we want to delete the item by pressing 'YES'.
- 4.7. Click Show Data again, the bike does not exist anymore.
- 4.8. Go back to the BikeShare screen and click List Rides.
- 4.9. The ride created in TS3 is not there anymore since the bike associated with it is no longer in the system.

5. FINAL TEST IN NATIVE APP

- 5.1. Turn on flight mode.
- 5.2. Start BikeShare App.
- 5.3. Register a new user and login with the created credentials.
- 5.4. Accept the requested permissions.
- 5.5. Try the Find a Bike functionality (it won't work although we have granted the permissions, in flight mode the phone does not have access to location).
- 5.6. Turn off flight mode.
- 5.7. Try again the Find a Bike functionality(now shows the map in centered in our location without any problem).
- 5.8. Try to add a new bike without taking a picture of the bike. Take a picture and add the bike.
- 5.9. Try to add a new bike with the same name to the one added before. Change the name and add the bike.
- 5.10. Try to Find a Bike functionality (no bikes will be shown on the map, since we cannot confirm its current location since the first ride is started).
- 5.11. Go to the Start Ride screen(the address might not appear maybe because of the initial flight mode, in this case go back to the BikeShare screen and try again).
- 5.12. Start a Ride with either of the bikes that we previously added.

- 5.13. Check the Bike Info, it states that there is no availability and the location is the last known, where the ride started.
- 5.14. Try to delete a bike which name does not exist(the dialog will show up anyways, but no bike will be deleted since it does not exist).
- 5.15. Go to the End Ride screen and end the current ride(It will inform us of the total duration and price for ride).
- 5.16. Finally, we wish to delete the ride, in the BikeShare screen, list all rides and click the ride with two fingers at the same time. A confirmation dialog will show up and we say "NO", update the data(obviously the ride won't be deleted), now we do the same but confirming we want to delete the item.