## Android application development environment

Why android

Why firebase

How to connect firebase to android

Authentication for user

* Sign-up:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| Sign-up 01 | VIP user successfully creates account. |  |
| Sign-up 02 | VIP user informed when they try to use an already existing email. |  |
| Sign-up 03 | VIP user informed when they try leave empty required fields when they create their account. |  |

* Sign-up:

|  |
| --- |
| **Test Case Id:** Sign-up 01 |
| **Test Purpose** | VIP user successfully Sign-up |
| **Success Criteria** | User account is created |
| **Test Steps:**   1. Click on “New to ParQU? Join now” link 2. Fill all the fields 3. Click “Create account” button   **Test Steps for website:**   1. Click on “Join as VIP user” button. 2. Fill all the fields 3. Click “Register” button | |
| **Post-Conditions:**   * User information is added to the database correctly. * User is redirected to “Services” page. * User is authorized to use the system. | |

|  |
| --- |
| **Test Case Id:** Sign-up 02 |
| **Test Purpose** | VIP user enters a used email address while creating an account |
| **Success Criteria** | VIP user is notified that he entered a used email address |
| **Test Steps:**   1. Click on “New to ParQU? Join now” link 2. Enter a used email address 3. Fill all other fields 4. Click “Create account” button   **Test Steps for website:**   1. Click on “Join as VIP user” button. 2. Enter a used email address. 3. Fill all the fields. 4. Click “Register” button | |
| **Post-Conditions:**   * Error message “You are already registered” appear to VIP user | |

|  |
| --- |
| **Test Case Id:** Sign-up 03 |
| **Test Purpose** | VIP user leaves empty fields while creating an account |
| **Success Criteria** | VIP user is notified that he leaved an empty field |
| **Test Steps:**   1. Click on “New to ParQU? Join now” link 2. Intentionally leave empty fields while filling the form 3. Click “Create account” button   **Test Steps for the website:**   1. Click on “Join as VIP user” button. 2. Intentionally leave empty fields while filling the form 3. Click “Register” button | |
| **Post-Conditions:**   * VIP user is prompted to fill all information | |

* Sign-in:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| Sign-in 01 | VIP user successfully sign in. |  |
| Sign-in 02 | VIP user informed when they try to use wrong email address or password. |  |

* Sign-in:

|  |
| --- |
| **Test Case Id:** Sign-in 01 |
| **Test Purpose** | VIP user successfully Sign-in |
| **Success Criteria** | VIP user is redirected to “Services” page |
| **Test Steps:**   1. Click on “join as VIP user” button 2. If you do not have account, create one as shown in Sign-up 01 test case 3. Fill email and password field correctly 4. Click “LOGIN” button   **Test Steps for the website:**   1. Click on “join as VIP user” button 2. If you do not have account, create one as shown in Sign-up 01 test case 3. Fill email and password field correctly 4. Click “LOGIN” button | |
| **Post-Conditions:**   * User is redirected to “Services” page. * User is authorized to use the system. | |

|  |
| --- |
| **Test Case Id:** Sign-in 02 |
| **Test Purpose** | VIP user enters wrong email or password while signing in |
| **Success Criteria** | VIP user is notified that he entered a wrong email or password |
| **Test Steps:**   1. Click on “join as VIP user” button 2. If you do not have account, create one as shown in Sign-up 01 test case 3. Intentionally enter wrong email or password 4. Click “LOGIN” button   **Test Steps for the website:**   1. Click on “join as VIP user” button 2. If you do not have account, create one as shown in Sign-up 01 test case 3. Intentionally enter wrong email or password 4. Click “LOGIN” button | |
| **Post-Conditions:**   * Error message appears to VIP user | |

* View Parking:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| View Parking 01 | User successfully views a map with the current status of parking spots |  |
| View Parking 02 | User successfully gets directions for a specific spot. |  |

* View Parking:

|  |
| --- |
| **Test Case Id:** View Parking 01 |
| **Test Purpose** | User successfully views a map with the current status of parking spots |
| **Success Criteria** | User is redirected to “Map” page |
| **Test Steps:**   1. If you are VIP user, sign in as shown in Sign-in 01 test case 2. If you are Normal user, click on “Continue as Normal User” button 3. Click on “Check Availability” button 4. Select a zone from zones list   **Test Steps for the website:**   1. If you are VIP user, sign in as shown in Sign-in 01 test case 2. If you are Normal user, click on “Continue as Normal User” button from the home page. 3. Select a zone from zones images. 4. Click on “Show Availability” button. | |
| **Post-Conditions:**   * User is redirected to “Map” page. | |

|  |
| --- |
| **Test Case Id:** View Parking 02 |
| **Test Purpose** | User successfully gets directions for a specific spot. |
| **Success Criteria** | User is redirected to google map |
| **Test Steps:**   1. If you are VIP user, sign in as shown in Sign-in 01 test case 2. If you are Normal user, click on “Continue as Normal User” button 3. Click on “Check Availability” button 4. Select a zone from zones list 5. Select spot number 6. Click on “Get Directions”   **Test Steps for the website:**   1. If you are VIP user, sign in as shown in Sign-in 01 test case 2. If you are Normal user, click on “Continue as Normal User” button from the home page. 3. Select a zone from the zone’s images. 4. Click on “Show Availability” button. 5. Select spot number from the drop-down list. 6. Click on “Get Directions” | |
| **Post-Conditions:**   * User is redirected to google map | |

* Request Car Care:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| Request Car Care 01 | VIP user successfully redirected to the Servesni application or website, if the application is installed in the phone |  |
| Request Car Care 02 | VIP user redirected to the App store, if the application is not installed in the phone |  |

* Request Car Care:

|  |
| --- |
| **Test Case Id:** Request Car Care 01 |
| **Test Purpose** | VIP user successfully redirected to the Servesni application if the application is installed in the phone |
| **Success Criteria** | VIP user is redirected to Servesni application |
| **Test Steps:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Request Car Care” button 3. Select one of the services   **Test Steps for the website:** | |
| **Post-Conditions:**   * VIP user is redirected to Servesni application | |

|  |
| --- |
| **Test Case Id:** Request Car Care 02 |
| **Test Purpose** | VIP user redirected to the Play Store, if the application is not installed in the phone |
| **Success Criteria** | VIP user is redirected to Play Store |
| **Test Steps:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Request Car Care” button 3. Select one of the services   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Request Car Care” link from the services page. | |
| **Post-Conditions:**   * VIP user is redirected to Play Store | |

* View Current Occupancy Trend:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| View Current Occupancy Trend 01 | User successfully views statistical data that represent occupied percentage in each hour for selected zone for last four weeks. |  |

|  |
| --- |
| **Test Case Id:** View Current Occupancy Trend |
| **Test Purpose** | User successfully views statistical data that represent occupied percentage in each hour for selected zone for last four weeks. |
| **Success Criteria** | Statistical data shown to the user |
| **Test Steps:**   1. If normal user, go to “Check availability” page as shown in “view parking” test case. 2. Select a zone from the zones images.. 3. Click on “show current trend” button. 4. If VIP user, sing in as shown in test case (XXX) 5. Click on “View current trend” option in “Services” page. 6. Select a zone from the zones images. 7. Click on “show current trend” button. | |
| **Post-Conditions:**   * A modal with statistical data appears to the user. | |
|  | |

* View Reservation:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| View Reservation 01 | VIP user successfully views all his/her current and upcoming reservations. |  |

* View Reservation:

|  |
| --- |
| **Test Case Id:** View Reservation 01 |
| **Test Purpose** | VIP user successfully views all his/her current and upcoming reservations. |
| **Success Criteria** | VIP user is redirected to “Reservations” page |
| **Test Steps:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Show Reservations” button   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case. 2. Click on “My Reservations” link on navigation bar. | |
| **Post-Conditions:**   * VIP user is redirected to “Reservations” page | |

* Extend Reservation:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| Extend Reservation 01 | VIP user successfully extends a reservation and the extension price is added to the reservation. |  |
| Extend Reservation 02 | VIP user is notified that he/she can only extend his reservation in the last hour of his reservation, if the current hour is not equal to the last hour of the selected reservation time. |  |
| Extend Reservation 03 | VIP user is notified if there is no available parking after the reservation time |  |

* Extend Reservation:

|  |
| --- |
| **Test Case Id:** Extend Reservation 01 |
| **Test Purpose** | VIP user successfully extends a reservation |
| **Success Criteria** | Reservation is extended to one hour |
| **Test Steps:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Show Reservations” button 3. Click on “Extend” option   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “My Reservations” link on navigation bar. 3. Click on “Extend” button. | |
| **Post-Conditions:**   * Reservation status changed to extended * Extension price is added to the reservation | |

|  |
| --- |
| **Test Case Id:** Extend Reservation 02 |
| **Test Purpose** | VIP user is notified that he/she can only extend his reservation in the last hour of his reservation, if he tries to extend before the last hour of the reservation |
| **Success Criteria** | VIP user is notified that he/she can only extend his reservation at the last hour of the reservation |
| **Test Steps:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Show Reservations” button 3. Click on “Extend” option   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “My Reservations” link on navigation bar. 3. Click on “Extend” button. | |
| **Post-Conditions:**   * Error message “You can only extend at the last hour of your reservation” appear to VIP user | |

|  |
| --- |
| **Test Case Id:** Extend Reservation 03 |
| **Test Purpose** | VIP user is notified if there is no available parking after the reservation time |
| **Success Criteria** | VIP user is notified that there is no available parking after the reservation time |
| **Test Steps:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Show Reservations” button 3. Click on “Extend” option   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “My Reservations” link on navigation bar. 3. Click on “Extend” button. | |
| **Post-Conditions:**   * Error message “no available parking spots” appear to VIP user | |

* Cancel Reservation:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Description** | **Screenshots** |
| Cancel Reservation 01 | VIP user successfully cancel the whole reservation and the deducted amount is calculated and deduct it from the total price of the reservation, if the reservation has not started. |  |
| Cancel Reservation 02 | VIP user successfully cancel remaining reservation hours from now and the deducted amount is calculated and deduct it from the total price of the reservation, If the reservation has started |  |

|  |
| --- |
| **Test Case Id:** Cancel Reservation 01 |
| **Test Purpose** |  |
| **Success Criteria** |  |
| **Test Steps:**   1. -------   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “My reservation” link on the navigation. 3. Click on “Cancel” option. | |
| **Post-Conditions:** | |

|  |
| --- |
| **Test Case Id:** Cancel Reservation 02 |
| **Test Purpose** | ,,,,, |
| **Success Criteria** | ,,,,,, |
| **Test Steps:**   1. alaaa   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “My reservation” link on the navigation bar. 3. Click on “Cancel” option. | |
| **Post-Conditions:**   * Error message “no available parking spots” appear to VIP user | |