* Sign-up:

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| **Test Case ID** | **Description** | **Screenshots** |
| Sign-up 01 | VIP user creates an account successfully. |  |
| Sign-up 02 | VIP user uses an already existing email. |  |
| Sign-up 03 | VIP user leaves required fields empty |  |

* Sign-up:

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| **Test Case Id:** Sign-up 01 |
| **Test Purpose** | VIP user successfully signs up |
| **Success Criteria** | VIP user account is created |
| **Test Steps for Android Application:**   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. | |

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| **Test Case Id:** Sign-up 02 |
| **Test Purpose** | VIP user uses an already existing email. |
| **Success Criteria** | VIP user is informed that he/she tried to use an already existing email. |
| **Test Steps for Android Application:**   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” appears to VIP user | |

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| **Test Case Id:** Sign-up 03 |
| **Test Purpose** | VIP user leaves required fields empty |
| **Success Criteria** | VIP user is informed that he/she tried to leave required fields empty. |
| **Test Steps for Android Application:**   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:

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| **Test Case ID** | **Description** | **Screenshots** |
| Sign-in 01 | VIP user signs in successfully. |  |
| Sign-in 02 | VIP user uses a wrong email address and/or password. |  |

* Sign-in:

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| **Test Case Id:** Sign-in 01 |
| **Test Purpose** | VIP user successfully signs in |
| **Success Criteria** | VIP user is redirected to “Services” page |
| **Test Steps for Android Application:**   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. | |

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| **Test Case Id:** Sign-in 02 |
| **Test Purpose** | VIP user uses a wrong email address and/or password. |
| **Success Criteria** | VIP user is informed that he/she tried to use a wrong email address and/or password. |
| **Test Steps for Android Application:**   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:

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

* View Parking:

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| **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 for Android Application:**   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. | |

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| **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 for Android Application:**   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 a 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:

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| **Test Case ID** | **Description** | **Screenshots** |
| Request Car Care 01 | VIP user is successfully redirected to the Servesni application, if the application is installed in the phone |  |
| Request Car Care 02 | VIP user redirected to the Play Store, if the application is not installed in the phone |  |

* Request Car Care:

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

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| **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 for Android Application:**   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:

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| **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. |  |

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| **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. | |
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* View Reservation:

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

* View Reservation:

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| **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 for Android Application:**   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:

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| **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 tries to extend before the last hour of the reservation. |  |
| Extend Reservation 03 | VIP user tries to extend where there is no available parking spot after the reservation time. |  |

* Extend Reservation:

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| **Test Case Id:** Extend Reservation 01 |
| **Test Purpose** | VIP user successfully extends a reservation |
| **Success Criteria** | Reservation is extended by one hour |
| **Test Steps for Android Application:**   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. 4. Click on “ok” button to confirm extending. | |
| **Post-Conditions:**   * Reservation status changed to “extended” * Extension price is added to the reservation | |

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| **Test Case Id:** Extend Reservation 02 |
| **Test Purpose** | VIP user tries to extend before the last hour of the reservation. |
| **Success Criteria** | VIP user is notified that he/she can only extend his reservation in the last hour of his reservation |
| **Test Steps for Android Application:**   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. 4. Click on “ok” button to confirm extending. | |
| **Post-Conditions:**   * Error message “You can only extend at the last hour of your reservation” appears to VIP user | |

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| **Test Case Id:** Extend Reservation 03 |
| **Test Purpose** | VIP user tries to extend when there is no available parking spot after the reservation time. |
| **Success Criteria** | VIP user is notified that there is no available parking spot after the reservation time |
| **Test Steps for Android Application:**   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. 4. Click on “ok” button to confirm extending. | |
| **Post-Conditions:**   * Error message “no available parking spots” appears to VIP user | |

* Cancel Reservation:

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

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| **Test Case Id:** Cancel Reservation 01 |
| **Test Purpose** | VIP user successfully cancels the whole reservation, if the reservation has not started. |
| **Success Criteria** | The whole reservation is cancelled, and the deduction amount is calculated and deducted from the total price of the reservation |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Show Reservations” button 3. Click on “Cancel” option   **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. 4. Click on “ok” button to confirm cancellation. | |
| **Post-Conditions:**   * Reservation status changed to “cancelled” * Deduction amount is calculated and deducted from the total price of the reservation | |

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| **Test Case Id:** Cancel Reservation 02 |
| **Test Purpose** | VIP user successfully cancels remaining reservation hours from now, if the reservation has started |
| **Success Criteria** | A part of the reservation hours is cancelled, and the deduction amount for cancelled hours is calculated and deducted from the total price of the reservation |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Show Reservations” button 3. Click on “Cancel” option   **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. 4. Click on “ok” button to confirm cancellation. | |
| **Post-Conditions:**   * Reservation status changed to “subcancelled” * Deduction amount is calculated and deducted from the total price of the reservation | |

* Reserve Parking:

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| **Test Case ID** | **Description** | **Screenshots** |
| Reserve Parking 01 | VIP user reserves a parking spot successfully. |  |
| Reserve Parking 02 | VIP user already has a reservation at the selected time he/she wants to reserve on. |  |
| Reserve Parking 03 | VIP user tries to reserve at a time where there is no available parking spot. |  |
| Reserve Parking 04 | VIP user tries to reserve before the allowable reservation time which is same day or one day before. |  |
| Reserve Parking 05 | VIP user tries to reserve at a time that has elapsed. |  |
| Reserve Parking 06 | VIP user tries to reserve more than the number of allowable reservation hours per day (6 hours) |  |
| Reserve Parking 07 | VIP user is notified 30 minutes before reservation expiring time. |  |

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| **Test Case Id:** Reserve Parking 01 |
| **Test Purpose** | VIP user reserves a parking spot successfully. |
| **Success Criteria** | Reservation record is created in the database |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” button 3. Select a zone 4. Select date, start time and duration 5. Click on “Reserve” button 6. Click “Yes” to confirm your reservation   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” link. 3. Select a zone from the drop-down list. 4. Select date, start time and duration 5. Click on “Reserve for me” button | |
| **Post-Conditions:**   * Reservation record is created in the database | |

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| **Test Case Id:** Reserve Parking 02 |
| **Test Purpose** | VIP user already has a reservation at the selected time he/she wants to reserve on. |
| **Success Criteria** | VIP user is notified that he/she has a reservation at the selected time. |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” button 3. Select a zone 4. Select date, start time and duration 5. Click on “Reserve” button 6. Click “Yes” to confirm your reservation   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” link. 3. Select a zone from the drop-down list. 4. Select a date, start time and duration 5. Click on “Reserve for me” button | |
| **Post-Conditions:**   * Error message “You already has a reservation at the selected time” appears to VIP user | |

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| **Test Case Id:** Reserve Parking 03 |
| **Test Purpose** | VIP user tries to reserve at a time where there is no available parking spot. |
| **Success Criteria** | VIP user is notified that there is no available parking spot at one of the selected hours. |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” button 3. Select a zone 4. Select date, start time and duration 5. Click on “Reserve” button 6. Click “Yes” to confirm your reservation   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” link. 3. Select a zone from the drop-down list. 4. Select a date, start time and duration 5. Click on “Reserve for me” button | |
| **Post-Conditions:**   * Error message “No available parking spot at one of the selected hours” appears to VIP user | |

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| **Test Case Id:** Reserve Parking 04 |
| **Test Purpose** | VIP user tries to reserve before the allowable reservation time which is the same day or one day before. |
| **Success Criteria** | VIP user is notified that he can only reserve at the same day or one day before the reservation date. |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” button 3. Select a zone 4. Select date, start time and duration 5. Click on “Reserve” button 6. Click “Yes” to confirm your reservation   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” link. 3. Select a zone from the drop-down list. 4. Select a date, start time and duration 5. Click on “Reserve for me” button | |
| **Post-Conditions:**   * Error message “You can only reserve at the same day or one day before the reservation date” appears to VIP user | |

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| **Test Case Id:** Reserve Parking 05 |
| **Test Purpose** | VIP user tries to reserve at a time that has elapsed. |
| **Success Criteria** | VIP user is notified that the selected start time has elapsed. |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” button 3. Select a zone 4. Select date, start time and duration 5. Click on “Reserve” button 6. Click “Yes” to confirm your reservation   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” link. 3. Select a zone from the drop-down list. 4. Select a date, start time and duration 5. Click on “Reserve for me” button | |
| **Post-Conditions:**   * Error message “The selected start time has elapsed” appears to VIP user | |

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| **Test Case Id:** Reserve Parking 06 |
| **Test Purpose** | VIP user tries to reserve more than the number of allowable reservation hours per day (6 hours) |
| **Success Criteria** | VIP user is notified that he/she cannot reserve more than the number of allowable reservation hours per day (6 hours) |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” button 3. Select a zone 4. Select date, start time and duration 5. Click on “Reserve” button 6. Click “Yes” to confirm your reservation   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” link. 3. Select a zone from the drop-down list. 4. Select a date, start time and duration 5. Click on “Reserve for me” button | |
| **Post-Conditions:**   * Error message “You exceed the total allowed number of hours which is 6 hours per day” appears to VIP user | |

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| **Test Case Id:** Reserve Parking 07 |
| **Test Purpose** | VIP user is notified 30 minutes before reservation expiring time. |
| **Success Criteria** | Notification appear to the user before 30 minutes of the reservation expiring time. |
| **Test Steps for Android Application:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” button 3. Select a zone 4. Select date, start time and duration 5. Click on “Reserve” button 6. Click “Yes” to confirm your reservation   **Test Steps for the website:**   1. Sign in as shown in Sign-in 01 test case 2. Click on “Reserve a Parking” link. 3. Select a zone from the drop-down list. 4. Select a date, start time and duration 5. Click on “Reserve for me” button | |
| **Post-Conditions:**   * Notification message “Reservation No XX in zone XX is due after 30 minutes” appear to the user before 30 minutes of the reservation expiring time. | |