* 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 Sign-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 | |
| **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 tries 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 | |
| **Post-Conditions:**   * Error message “You are already registered” appear 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 tries 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 | |
| **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 Sign-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 | |
| **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 tries 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 | |
| **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 | |
| **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 spot number 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 | |
| **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. |  |

* 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 | |
| **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 to 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 | |
| **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 | |
| **Post-Conditions:**   * Error message “You can only extend at the last hour of your reservation” appear to VIP user | |

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| **Test Case Id:** Extend Reservation 03 |
| **Test Purpose** | VIP user tries to extend where 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 | |
| **Post-Conditions:**   * Error message “no available parking spots” appear 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 | |
| **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 | |
| **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 | |
| **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 | |
| **Post-Conditions:**   * Error message “You already has a reservation at the selected time” appear 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 | |
| **Post-Conditions:**   * Error message “No available parking spot at one of the selected hours” appear 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 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 | |
| **Post-Conditions:**   * Error message “You can only reserve at the same day or one day before the reservation date” appear 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 | |
| **Post-Conditions:**   * Error message “The selected start time has elapsed” appear 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 | |
| **Post-Conditions:**   * Error message “You exceed the total allowed number of hours which is 6 hours per day” appear 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 | |
| **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. | |