## Android application development environment

Why android

Why firebase

How to connect firebase to android

Authentication for user

* 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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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:**   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 reserves at a time where he/she already has a reservation on.  VIP user already has a reservation at the selected time he/she wants to reserve on.  VIP user is notified if he/she has a reservation at the selected time. |  |
| Reserve Parking 03 | VIP user tries to reserve at a time where there is no available parking spot.  VIP user is notified if there is no available parking spot at one of the selected hours. |  |
| Reserve Parking 04 | VIP user tries to reserve before the allowable reservation time which is same day or one day before.  is notified that he can only reserve at the same day or one day before the reservation date, if selected date is not equal to today or tomorrow. |  |
| Reserve Parking 05 | VIP user tries to reserve at a time that has elapsed.  is notified if the selected start time has elapsed. |  |
| Reserve Parking 06 | VIP user tries to reserve more than the number of allowable reservation hours per day (6 hours)  is notified if the number of selected hours with the total reservation hours for selected date is 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. |  |