## 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 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:

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| **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 | |
| **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 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 | |
| **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 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 | |
| **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 successfully sign in. |  |
| Sign-in 02 | VIP user informed when they try to use wrong email address 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 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 | |
| **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 with the current status of parking spots |  |
| 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 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:

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| **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 | |
| **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 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:

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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 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 | |
| **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 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 | |
| **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 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 |  |