|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| LG01 | Login with valid manager’s phone number and password | 1. Go to login page 2. Input phone “01649501939” and password “123456” 3. Press “Đăng nhập” button | Show target main page of Manager |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LG02 | Login with valid staff’s phone number and password | 1. Go to login page 2. Input phone “01649501935” and password “123456” 3. Press “Đăng nhập” button | Show target main page of Staff |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LG03 | Login with passenger’s phone number and password | 1. Go to login page 2. Input valid phone “01993916489” and password “123456” 3. Press “Đăng nhập” button | Show target main page of Passenger |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LG04 | Login with invalid phone number and password | 1. Go to login page 2. Input username “tech” and password “nurse2” 3. Press “Đăng nhập” button | Show error message “Số điện thoại không hợp lệ” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LG05 | Login with blocked account’s phone number and password | 1. Go to login page 2. Input username “tech2” and password “123123” 3. Press “Đăng nhập” button | Show error message “Tài khoản đang bị khóa” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LG06 | Login with empty phone number | 1. Go to login page 2. Input username “” and password ”123123” 3. Press “Đăng nhập” button | Show error message “Vui lòng nhập tên đăng nhập” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LG07 | Login with empty phone number and password | 1. Go to login page 2. Press “Đăng nhập” button | Show error message “Số điện thoại không hợp lệ” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LG08 | Login with valid phone number and invalid password | 1. Go to login page 2. Input phone number “01993916489” and password “696969” 3. Press “Đăng nhập” button | Show error message “Mât khẩu từ 6-50 ký tự” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

Table 89 **Web Application Test Case - <Guest>Login**

<Authorized User> Logout

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| LO01 | Logout successfully | 1. Login web application successfully. 2. Press “Đăng xuất” button at the corner. | Show “Login” page |  | Pass | From 7/11/16  To 9/11/16  (about 2 times) |
| LO02 | Log out after session timed out 1 | 1. Login web application successfully. 2. Don’t interactive with application in 30 minutes. 3. After 30 minutes, try to reload current page. | Show “Login” page |  | Pass | From 7/11/16  To 9/11/16  (about 40 times) |
| LO03 | Log out after session timed out 2 | 1. Login web application successfully. 2. Un-deploy web application then re-deploy it. 3. Try to reload current page. | Show “Login” page |  | Pass | From 7/11/16  To 9/11/16  (about 40 times) |
| LO04 | Log out after session timed out 3 | 1. Login web application successfully. 2. Current server time is 7:00, change it to 8:00. 3. Try to reload current page. | Show “Login” page |  | Pass | From 7/11/16  To 9/11/16  (about 40 times) |

<Manager> Add credit plan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| CP01 | Add credit plan successful | 1. Go to credit plan page 2. Press “Thêm gói” button 3. Input credit plan name “Gói phổ thông” 4. Input credit plan price number “20000” 5. Press “Lưu” button | Updated credit plan page with new credit plan added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| CP02 | Add credit plan without a name | 1. Go to credit plan page 2. Press “Thêm gói” button 3. Input credit plan price number “20000” 4. Press “Lưu” button | Show warning message “Tên gói từ 6-250 ký tự!” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| CP03 | Add credit plan without a price | 1. Go to credit plan page 2. Press “Thêm gói” button 3. Input credit plan name “Gói phổ thông” 4. Press “Lưu” button | Show warning message “Giá gói từ 0-10000000đ” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Manager> Update credit plan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| CP01 | Update credit plan successful | 1. Go to credit plan page 2. Press “Chỉnh sửa” button 3. Input credit plan name “Gói phổ thông” 4. Input credit plan price number “20000” 5. Press “Lưu” button | Updated credit plan page with updated credit plan added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| CP02 | Update credit plan without a name | 1. Go to credit plan page 2. Press “Chỉnh sửa” button 3. Input credit plan price number “20000” 4. Press “Lưu” button | Show warning message “Tên gói từ 6-250 ký tự!” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| CP03 | Update credit plan without a price | 1. Go to credit plan page 2. Press “Chỉnh sửa” button 3. Input credit plan name “Gói phổ thông” 4. Press “Lưu” button | Show warning message “Giá gói từ 0-10000000đ” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

FManager> Delete credit plan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| CP01 | Delete credit plan successful | 1. Go to credit plan page 2. Press “Xóa” button on a credit plan | Updated credit plan page without a removed credit plan |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Manager> Add ticket type

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| TT01 | Add ticket type successful | 1. Go to ticket type page 2. Press “Thêm loại vé” button 3. Input ticket type name “Vé tuyến ngắn” 4. Input ticket type price number “5000” 5. Input ticket type description “Đồng giá mọi tuyến dưới 18km” 6. Press “Lưu” button | Updated ticket type page with new ticket type added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| TT02 | Add ticket type without a name | 1. Go to ticket type page 2. Press “Thêm gói” button 3. Input ticket type price number “20000” 4. Input ticket type description “Đồng giá mọi tuyến dưới 18km” 5. Press “Lưu” button | Show warning message “Tên loại vé từ 6-250 ký tự!” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| TT03 | Add ticket type without a price | 1. Go to ticket type page 2. Press “Thêm gói” button 3. Input ticket type name “Vé tuyến ngắn” 4. Input ticket type description “Đồng giá mọi tuyến dưới 18km” 5. Press “Lưu” button | Show warning message “Giá gói từ 0-10000000đ” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| TT04 | Add ticket type without a description | 1. Go to ticket type page 2. Press “Thêm gói” button 3. Input ticket type name “Vé tuyến ngắn” 4. Input ticket type price number “20000” 5. Press “Lưu” button | Updated ticket type page with new ticket type added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Manager> Update ticket type

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| UT01 | Update ticket type successful | 1. Go to ticket type page 2. Press “Chỉnh sửa” button 3. Input ticket type name “Vé tuyến ngắn” 4. Input ticket type price number “20000” 5. Input ticket type description “Đồng giá mọi tuyến dưới 18km” 6. Press “Lưu” button | Updated ticket type page with updated ticket type added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| UT02 | Update ticket type without a name | 1. Go to ticket type page 2. Press “Chỉnh sửa” button 3. Input ticket type price number “20000” 4. Input ticket type description “Đồng giá mọi tuyến dưới 18km” 5. Press “Lưu” button | Show warning message “Tên loại vé từ 6-250 ký tự!” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| TT03 | Update ticket type without a price | 1. Go to ticket type page 2. Press “Chỉnh sửa” button 3. Input ticket type name “Vé tuyến ngắn” 4. Input ticket type description “Đồng giá mọi tuyến dưới 18km” 5. Press “Lưu” button | Show warning message “Giá vé từ 0-10000000đ” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| TT04 | Update ticket type without a description | 1. Go to ticket type page 2. Press “Chỉnh sửa” button 3. Input ticket type name “Vé tuyến ngắn” 4. Input ticket type price number “20000” 5. Press “Lưu” button | Updated ticket type page with updated ticket type added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Manager> Delete ticket type

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| DT01 | Delete ticket type successful | 1. Go to ticket type page 2. Press “Xóa” button on a ticket type | Updated ticket type page without a removed ticket type |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Manager> Add promotion

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| AP01 | Add promotion successful | 1. Go to promotion page 2. Press “Thêm ưu đãi mới” button 3. Input promotion name “ONEDAYPASS” 4. Input promotion code “1DAY” 5. Input promotion price number “5000” 6. Input promotion discount rate “30” 7. Input number of promotion ticket “10” 8. Press “Lưu” button | Updated promotion page with new promotion added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AP02 | Add promotion without a name | 1. Go to promotion page 2. Press “Thêm ưu đãi mới” button 3. Input promotion code “1DAY” 4. Input promotion price number “5000” 5. Input promotion discount rate “30” 6. Input number of promotion ticket “10” 7. Press “Lưu” button | “Lưu” button changes to warning icon |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AP03 | Add promotion without a promotion code | 1. Go to promotion page 2. Press “Thêm ưu đãi mới” button 3. Input promotion name “ONEDAYPASS” 4. Input promotion price number “5000” 5. Input promotion discount rate “30” 6. Input number of promotion ticket “10” 7. Press “Lưu” button | “Lưu” button changes to warning icon |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AP04 | Add promotion without a price | 1. Go to promotion page 2. Press “Thêm ưu đãi mới” button 3. Input promotion name “ONEDAYPASS” 4. Input promotion code “1DAY” 5. Input promotion discount rate “30” 6. Input number of promotion ticket “10” 7. Press “Lưu” button | “Lưu” button changes to warning icon |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AP05 | Add promotion without a discount rate | 1. Go to promotion page 2. Press “Thêm ưu đãi mới” button 3. Input promotion name “ONEDAYPASS” 4. Input promotion code “1DAY” 5. Input promotion price number “5000” 6. Input number of promotion ticket “10” 7. Press “Lưu” button | “Lưu” button changes to warning icon |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AP06 | Add promotion without number of promotion ticket | 1. Go to promotion page 2. Press “Thêm ưu đãi mới” button 3. Input promotion name “ONEDAYPASS” 4. Input promotion code “1DAY” 5. Input promotion price number “5000” 6. Input promotion discount rate “30” 7. Input number of promotion ticket “10” 8. Press “Lưu” button | “Lưu” button changes to warning icon |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Manager> Delete promotion

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| DP01 | Delete promotion successful | 1. Go to promotion page 2. Press “Xóa” button on a promotion | Updated promotion status page without a removed promotion |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Staff> Add passenger’s card

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| AC01 | Add card successful | 1. Go to card page 2. Press “Thêm thẻ mới” button 3. Tap new card on the emulator 4. Input initial card balance “15000” 5. Press “Lưu” button | Updated card page with new promotion added |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AC02 | Add card without a name | 1. Go to card page 2. Press “Thêm thẻ mới” button 3. Input initial card balance “15000” 4. Press “Lưu” button | Show warning message “Mã thẻ từ 6-250 ký tự!” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AC03 | Add card without an initial balance | 1. Go to card page 2. Press “Thêm thẻ mới” button 3. Tap new card on the emulator 4. Press “Lưu” button | Show warning message “Số dư từ 0-10000000đ” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Staff> Activate/Deactivate passenger’s card

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| AD01 | Activate card successful | 1. Go to card page 2. Press “Mở khóa thẻ” button | “Mở khóa thẻ” button change to “Khóa thẻ” button |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| AC02 | Deactivate card successful | 1. Go to card page 2. Press “Mở khóa thẻ” button | “Khóa thẻ” button change to “Mở khóa thẻ” button |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

### Mobile Application Test Cases

<Unuthorized User> Login

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| LI01 | Login successfully | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button | Show main screen |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LI02 | Login with invalid phone number | 1. Open “GBTS” application 2. Input valid phone number “01993916400” and password “123456” 3. Press “Login” button | Show message “Sai điện thoại hoặc mật khẩu” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LI03 | Login with invalid password | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123abc” 3. Press “Login” button | Show message “Sai điện thoại hoặc mật khẩu” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LI04 | Login with invalid username and password | 1. Open “GBTS” application 2. Input invalid phone number “01993916400” and invalid password “123abc” 3. Press “Login” button | Show message “Sai điện thoại hoặc mật khẩu” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| LI05 | Login with blank username and password | 1. Open “GBTS” application 2. Input blank phone number and password 3. Press “Login” button | Show message “Sai điện thoại hoặc mật khẩu” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Authorized User> Logout

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| LI01 | Log out successfully | 1. Open “GBTS” application 2. Press “Đăng xuất” button | Show login screen |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Passenger> Add credit

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| CR01 | Add credit successful | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Press “Nạp tiền” button 7. Select “Gói phổ thông” 8. Press “Thanh toán” button 9. Press “Pay with” PayPal” button 10. Input valid email [truongtq2506@gmail.com](mailto:truongtq2506@gmail.com) and password “123456” 11. Press “Login” button 12. Press “Pay with PayPal” button 13. Press “Pay” button | Updated “Thẻ của bạn” panel with updated balance |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| CR02 | Add credit with invalid PayPal email | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Press “Nạp tiền” button 7. Select “Gói phổ thông” 8. Press “Thanh toán” button 9. Press “Pay with” PayPal” button 10. Input invalid email [abc@gmail.com](mailto:abc@gmail.com) and valid password “123abc” | Show error message “Invalid email or password” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| CR03 | Add credit with invalid PayPal password | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Press “Nạp tiền” button 7. Select “Gói phổ thông” 8. Press “Thanh toán” button 9. Press “Pay with” PayPal” button 10. Input valid email [truongtq2506@gmail.com](mailto:truongtq2506@gmail.com) and valid password “123456” | Show error message “Invalid email or password” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Passenger> Update card’s name

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| CN01 | Update card’s name successfully | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Input new card name 7. Press and hold “person” icon | Updated “Thẻ của bạn” panel with updated balance |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| CN02 | Update card’s name with blank input | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Leave card name blank 7. Press and hold “person” icon | Updated “Thẻ của bạn” panel with updated balance |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |

<Passenger>Topup Card

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| TU01 | Top up card successfully | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Press “Nạp tiền” button 7. Press “Nạp tiền bằng thẻ cào” button 8. Input valid scratch card’s code 9. Press “Nạp” button | Show main screen |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| TU02 | Top up card using wrong code | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Press “Nạp tiền” button 7. Press “Nạp tiền bằng thẻ cào” button 8. Input valid scratch card’s code 9. Press “Nạp” button | Show message “Mã nạp tiền không hợp lệ hoặc hết hạn” |  | Pass | From 7/11/16  To 9/11/16  (about 5 times) |
| TU03 | Top up card without a code | 1. Open “GBTS” application 2. Input valid phone number “01993916489” and password “123456” 3. Press “Login” button 4. Select “Thẻ của bạn” 5. Choose “Thẻ của Đức” card 6. Press “Nạp tiền” button 7. Press “Nạp tiền bằng thẻ cào” button 8. Leave scratch card’s code space blank 9. Press “Nạp” button | Show message “Mã nạp tiền không hợp lệ hoặc hết hạn” |  | Pass |  |