Software Testing

.1.1Scope of Testing

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| --- | --- |
| **Test Case ID** | **Test Feature** |
| TC 01 | Register |
| TC 02 | Login |
| TC 03 | Update Personal Information |
| TC 04 | Browse Product |
| TC 05 | Search Product name |
| TC 06 | Add product to shopping cart |
| TC 07 | Select multi product |
| TC 08 | View products what select in shopping cart |
| TC 09 | View total price in shopping cart |
| TC 10 | Select a payment option in shopping cart |
| TC 11 | Delete products in shopping cart |
| TC 12 | Click confirm button to finish buying |
| TC 13 | Save products in shopping cart |
| TC 14 | Customer browse shopping history |
| TC 15 | Administrator edit products profile |
| TC 16 | Administrator add products to product list |
| TC 17 | Administrator delete products from product list |
| TC 18 | Administrator browse customer’s shopping  history |

Sub case

|  |  |
| --- | --- |
| **Test Case** | **Sub case** |
| TC 01: Register | TC01-1:Name  TC01-2:Password  TC01-3:Confirm Password  TC01-4:Address  TC01-5:Picture |
| TC 02:Login | TC02-1:Verify username and password |
| TC 03: Update Personal Information | TC03-1:Name  TC03-2:Password  TC03-3:Confirm Password  TC03-4:Address  TC03-5:Picture |
| TC 10: Select a payment option in shopping  cart | TC10-1:Money transfer to pay  TC10-2:Credit card to pay  TC10-3:PayPal to pay |
| TC 16: Administrator edit products profile | TC16-1:Product name  TC16-2:Product description  TC16-3:Product image |

**1.2 Unit Testing**

**1.2.1 Class: Register**

**Unit test case 1:** validateName(name: String):Boolean

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| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Input username with  email to register | Aram@qq.com | True |
| 2 | Input username with  Integers to register | 1234 | False |
| 3 | Input username with  letters to register | abc | False |
| 4 | Input username with  letters and integers to  register | 33bc | False |
| 5 | Not input any data | null | False |

**Unit test case 2:** validatePassword(password: String):Boolean

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Input password with integers to register | 12334 | True |
| 2 | Input password with  Letters to register | aabb | True |
| 3 | Input password with  letters and integers to  register | 11abcd | True |
| 4 | Not input any data | null | False |

**Unit test case3:**

checkConfirmPassword(password:String,repassword:String):boolean

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Re-Input password  with integers which  is same as password  to register | 12334 | True |
| 3 | Re-Input password  which is not same as  password to register | llllllll | False |
| 4 | Not input any data | null | False |

**Unit test case 4:**checkPicture(picture:String):boolean

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Upload one picture to register | Aspll.jpg | True |
| 2 | Not upload any  picture | null | False |

**Unit test case 5:**checkAddress(addredd:String):boolean

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Fill some words to  register | cmu 1135 road | True |
| 2 | Not fill any words | null | False |

**1.2.4 Class: User**

**Unit test case 1:**browsingHistory()

|  |  |  |
| --- | --- | --- |
| **ID** | **description** | **Expected** |
| 1 | Call browsingHistory() | Not null value returned |

**1.2.5 Class: CartItem**

**Unit test case 1:**isDrop():boolean

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| --- | --- | --- |
| **ID** | **description** | **Expected** |
| 1 | Call isDrop():boolean | Not null value returned |

**Unit test case 2:**getNum():integer

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Get number of  products which in  the shopping cart | Add products to  Shopping cart | True |
| 2 | Get number without add products | null | True |

**Unit test case 3:**getProduct():Product

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Get products’ details which  added to shopping  cart. | Add product A to  Shopping cart | True |
| 2 | Get products’ details which without added to shopping cart. | null | False |

**Unit test case 4:**saveProduct(product:Product):boolean

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| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Save product A to database | Product A | True |

**1.2.6 Class:Admin**

**Unit test case 1:**addProduct():Product[]

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Save product B to database | B | True |

**Unit test case 2:**deleteProduct():Product[]

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | Delete product C from database | C | True |
| 2 | Delete product C from database with invalid name | 1 | False |

**Unit test case 3:**editProduct(pname:String,desc:String,image:String):Product

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | **Expected Result** |
| name | desc | image |
| 1 | Edit pname | OriangeS | null | null | True |
| 2 | Edit desc | null | This product especially for keeping health | null | True |
| 3 | Edit image | null | null | Js.jpg | True |
| 4 | Invalid image format | null | null | sttv | False |

**1.2.7 Class:Product**

**Unit test case 1:**getAddTime():long

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Expected Result** |
| 1 | Call getAddTime(): | Not null value returned |

**Unit test case 2:**getCategoryId():integer

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Result** |
| 1 | input products category by id | 1 | True |
| 2 | Invalid category id | sv | False |

**1.2.8 Class:Category**

**Unit test case 1:**getId():Integer

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| --- | --- | --- |
| **ID** | **Description** | **Expected Result** |
| 1 | Call getId() | True |

**Unit test case 2:**getParentCategory():Category

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Expected Result** |
| 1 | Call getParentCategory() | True |

**Unit test case 3:**getSubCategory():String

|  |  |  |
| --- | --- | --- |
| **ID** | **Description** | **Expected Result** |
| 1 | Call getSubCategory() | True |

**Unit test case 4:**getName():String

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| --- | --- | --- |
| **ID** | **Description** | **Expected Result** |
| 1 | Call getName() | True |

**Integration test**

|  |  |  |
| --- | --- | --- |
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