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| ID | User stories | Given | When | Then |
| DT-1 | Create an account | Rule: Only allow account registration when it has no conflict with the database. | | |
| 01 | User creates an account with unique information | User clicks on sign up button | Account successfully created AND registered in database. |
| 02 | User creates an account with information similar to database. | User clicks on sign up button | Account creation not authorized AND account is NOT registered in database. |
|  | Rule: Only allow account creation when provided input are valid | | |
| 03 | User inputs password/username that meet the requirements. | User clicks on sign up button | Account successfully created. |
| 04 | User inputs password/username does not meet the requirements. | User clicks on sign up button | Warn user that conditions are not met AND account failed to be created. |
| UI-1 | Advertisement of products | Rule: Only allow up to one product and banner per page for each seller. | | |
| 01 | Seller wants to advertise store home page. | Seller enables store home page to be advertised. | Seller’s page is successfully advertised on the home page AND dashboard. |
| 02 | Seller advertises product | Seller submits selected products to be advertised. | Product displays on top of search results AND is tagged as an advertisement. |
| UI-2 | Search engine | Rule: Only display items which are present in the database. | | |
| 01 | User searches for an item | User clicks the search button. | List of Items related to search query is displayed successfully. |
| 02 | User searches for item with filters. | User clicks the search button. | Lists of items related to query is displayed AND items are sorted. |
| 03 | User searches for Item and Item is not found. | User clicks the search button. | Informs user that item was NOT found. |
| 04 | User search input is empty. | User clicks the search button. | Alerts user to enter input AND retry. |
| UI-3 | Initiate return process | Rule: Only accept return request if conditions are met. | | |
| 01 | User selects Item to return that meets return criteria. | User submits the Item. | Item return request is successful AND User is redirected to Contact Us page |
| 02 | User selects Item to return when the Item is already submitted to be returned. | User submits the Item. | Alerts user that Item is already submitted. |
| 03 | User selects an Item that does not meet the criteria | User submits the Item. | Alerts User that Item does NOT meet return criteria AND is redirected to Contact Us page. |
| UI-4 | Dashboard | Rule: User is logged in. | | |
| 01 | User is logged in. | User clicks on home button | Displays recently viewed items AND recently bought items. |
| 02 | User is not logged in. | User clicks on home button | Redirects to Login Page. |
| UI-5 | Contact Us page | Rule: User is logged in. | | |
| 01 | User/Seller wants to report issue. | User submits help form. | Alerts User that form has been submitted AND E-mail confirmation is sent to user AND information is added to database. |
|  | 02 | User/Seller want to report issue with unregistered account. | User submits help form. | Prompts user to Sign In. |
|  | 03 | User/Seller wants more contact Information. | User clicks Contact Now. | Displays phone number and contact e-mail. |
| UI-6 | Public landing page | Rule: User is a first-time visitor and is not signed in. | | |
| 01 | User/Seller want to create an account. | User clicks register here button. | User is redirected to registration page. |
| 02 | User is not a first-time visitor. | User browses page and scrolls down | Displays more Items based on users previous viewing history. |
| UI-7 | Google API | Rule: User must have a google account. | | |
| 01 | User is on the login page . | User clicks on g-mail logo. | User is redirected to new window to log into google. |
| DT-2 | Database for products | Rule: Only specific account to add/remove item from database | | |
| 01 | Seller users/ admin add/remove item from database | Establish connection with database | Action authorized AND database is updated. |
| 02 | Basic users add/remove item from database | Establish connection with database | Action NOT authorized AND database is NOT updated. |
| UI-8 | Shopping cart | Rule: Only items in stock can be added in cart. | | |
| 01 | User views an item in stock on the website. | User adds item to cart | Respective item get added to cart AND database is updated. |
| 02 | User views an item NOT in stock on the website | User adds item to cart | Item NOT added to cart AND user gets notified |
| UI-9 | Edit profile | Rule: Only successful modifications are updated to database. | | |
| 01 | User views their profile and wants to edit their information | Able to establish connection between user and database | Modification authorized AND database is updated with new information. |
| 02 | User views their profile and wants to edit their information | Unable to establish connection between user and database | Modification NOT authorized AND database is NOT updated with new information. |
| UI-10 | Login | Rule: Only allow log in when account is registered in database. | | |
| 01 | Users log in with registered account | User clicks on log in button | User successfully log in AND user’s session starts |
| 02 | Users log in with unregistered account | User clicks on log in button | User failed to log in AND no session is started. |
|  | Rule: Only allow log in when username and password match. | | |
| 03 | User uses a password that matches with the username. | User clicks on log in button | User successfully log in AND user’s session starts |
| 04 | User uses a password that does not matches with the username. | User clicks on log in button | User failed to log in AND no session is started. |
| UI-11 | Product Page | Rule: User should be able to view product pages. | | |
| 01 | User clicks on product tabs | Able to establish a connection between user and server | User can view all the products in stock |
| 02 | User clicks on product tabs | Unable to establish a connection between user and server | Unable to direct user to page AND user is unable to view products |