

TEST CASE DESIGN DOCUMENT



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SECTION: BSE-5A

COURSE: SOFTWARE QUALITY ENGINEERING

COURSE CODE: SE3002

SOFTWARE QUALITY ENGINEERING – PROJECT DELIVERABLE #
02

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**NATIONAL UNIVERSITY OF COMPUTER AND
EMERGING SCIENCES**

DEPARTMENT OF COMPUTER SCIENCE

User Functionalities:**1. Use Case for Login User:**

Component	Description	
Use Case Name	Login User	
Preconditions	None	
Typical Case of Events/ Main Success Scenario (U: User, S: System)	Step	Action
	1	U: Enters Username
	2	U: Enters Password
	3	U: Clicks “Login” Button
	4	S: Looks up if entered credentials are valid from the database.
	5	S: Redirects to Welcome Page.
Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	4a	Credentials not found. S: Reloads the login page. (It should also show an error message that account doesn't exist, but it doesn't)
	4b	Username is incorrect. S: Reloads the login page. (It should also show an error message that login credentials are incorrect, but it doesn't)
	4c	Password is incorrect. S: Reloads the login page. (It should also show an error message that login credentials are incorrect, but it doesn't)

2. Decision Table for Login User:

Conditions	-	Rule 1	Rule 2	Rule 3,5	Rule 4	Rule 6	Rule 7,8
	Input Valid Username	T	T	-	F	F	-
	Input Valid Password	T	T	F	T	T	F
	Input Complete Credentials in Fields	T	F	T	T	F	F
Actions	Redirects to Whitelabel Error Page			✓	✓		
	Prompts to fill empty fields					✓	✓
	Redirects to Welcome Page	✓					
	Invalid Case		✓				

3. Test Case for Login User:

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Login to Account	Valid Username & Password (username: admin, password:123)	Redirects to Homepage	Redirects to Homepage
2	Invalid	Test invalid username	Invalid Username (sqe) & Valid Password (123)	Display Error Message	Redirects to Error Page; Whitelabel Error
3	Invalid	Test invalid password	Valid Username (admin) & Invalid Password (412)	Display Error Message	Redirects to Error Page; Whitelabel Error
4	Invalid	Test empty field (blank username)	No Username & Valid Password	Display Error Message & Prompt user to fill all fields	Prompts user to enter username, doesn't display error message
5	Invalid	Test empty field (blank password)	Valid Username & No Password	Display Error Message & Prompt user to fill all fields	Prompts user to enter password, doesn't display error message

4. Use Case for User Registration:

Component	Description
Use Case Name	Register User
Preconditions	User clicks "Register Here" option on Login Page
Typical Case of Events/ Main Success Scenario (U: User, S: System)	Step Action
	1 U: Enters Username
	2 U: Enters Email
	3 U: Enters Password
	4 U: Enters Address
	5 U: Clicks "Register" button
	6 S: Validates credentials
	7 S: Redirects to Login Page
Alternate Case of Events/ Extensions/ Alternate Courses	Step Action
	1a Empty Username Field S: Prompts user to enter username
	2a Empty Email Field S: Prompts user to enter email

	3a	Empty Password Field S: Prompts user to enter password
	4a	Empty Address Field S: Registers other credentials in database and redirects user to login page

5. Decision Table for User Registration:

Conditions	-	Rule 1,2	Rule 3,4,7,8	Rule 5,6	Rule 9,10,11,12,13,14,15,16
	Input Username	T	T	T	F
	Input Email Address	T	-	F	-
	Set Password	T	F	T	-
	Input Address	-	-	-	-
Actions	Prompt to fill empty fields		✓	✓	✓
	Redirects to Login Page	✓			

6. Test Case for User Registration:

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Register new user	Valid Username (1-32 characters long), Email, Password, & Address	New User Registered Message shown, Redirects to Welcome Page	Redirects to Login Page
2	Valid	Test empty field (blank address)	Valid Username (1-32 characters long), Email, Password, & No Address	New User Registered Message shown, Redirects to Welcome Page	Redirects to Login Page
3	Invalid	Test invalid username	Username longer than 32 characters, Valid Email, Password, & Address	Show Error Message, Prompt User to re-enter username	Redirects to Error Page: Whitelabel Error Page

4	Invalid	Test empty field (blank username)	Valid Email, Password, & Address, No username	Show Error Message, Prompt User to enter username	Prompts user to enter username
5	Invalid	Test empty field (blank password)	Valid Email, Username, & Address, No Password	Show Error Message, Prompt User to enter password	Prompts user to enter password
6	Invalid	Test Invalid Email	Email shorter than 6 characters, Valid Username, Password, & Address	Prompts User to edit email field	Prompts user to use at least 6 characters in email
7	Valid	Test Invalid Email	Email not following ***@***.com format, Valid Username, Password, & Address	Display Error Message: Invalid Email, Prompt User to re-enter email address	Redirects to Login Page
8	Valid	Test invalid username	Username has multiple spaces/special characters, Valid Email, Password, & Address	Show Error Message, Prompt User to re-enter username	Redirects to Login Page

Admin Functionalities:**1. Use Case for Admin Login:**

Component	Description	
Use Case Name	Admin Login	
Preconditions	None	
Typical Case of Events/ Main Success Scenario (U: Admin, S: System)	Step	Action
	1	U: Enters Username
	2	U: Enters Password
	3	U: Clicks “Login” Button
	4	S: Looks up if entered credentials are valid from the database.
	5	S: Redirects to Welcome Page.

Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	4a	Credentials not found. S: Reloads the login page. (It should also show an error message that account doesn't exist, but it doesn't)
	4b	Username is incorrect. S: Reloads the login page. (It should also show an error message that login credentials are incorrect, but it doesn't)
	4c	Password is incorrect. S: Reloads the login page. (It should also show an error message that login credentials are incorrect, but it doesn't)

2. Decision Table for Admin Login:

Conditions	-	Rule 1	Rule 2	Rule 3,5	Rule 4	Rule 6	Rule 7,8
	Input Valid Username	T	T	-	F	F	-
	Input Valid Password	T	T	F	T	T	F
	Input Complete Credentials in Fields	T	F	T	T	F	F
Actions	Redirects to Whitelabel Error Page			✓	✓		
	Prompts to fill empty fields					✓	✓
	Redirects to Admin Dashboard	✓					
	Invalid Case		✓				

3. Test Case for Admin Login:

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Login to Account	Valid Username & Password (username: admin, password:123)	Redirects to Homepage	Redirects to page
2	Invalid	Test invalid username	Invalid Username (sqe) & Valid Password (123)	Display Error Message	Redirects to Error Page; Whitelabel Error

3	Invalid	Test invalid password	Valid Username (admin) & Invalid Password (412)	Display Error Message	Redirects to Error Page; Whitelabel Error
4	Invalid	Test empty field (blank username)	No Username & Valid Password	Display Error Message & Prompt user to fill all fields	Prompts user to enter username, doesn't display error message
5	Invalid	Test empty field (blank password)	Valid Username & No Password	Display Error Message & Prompt user to fill all fields	Prompts user to enter password, doesn't display error message

4. Test Case for Admin Dashboard:

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Test Manage Button Functionality under "Categories"	Click "Manage" button in Categories	Redirects to Categories Web Page	Redirects to Categories Web Page
2	Valid	Test Manage Button Functionality under "Products"	Click "Manage" button in Products	Redirects to Products Web Page	Redirects to Products Web Page
3	Valid	Test Manage Button Functionality under "Customers"	Click "Manage" button in Customers	Redirects to Customers Web Page	Redirects to Customers Web Page
4	Valid	Test Home Page Button Functionality	Click "Home Page" button	Redirects to Home Page	Redirects to Error Message Page: Whitelabel Error Page
5	Valid	Test Logout Button Functionality	Click "Logout" button	Redirects to Admin Login Page	Redirects to Login Page

5. Use Case for Admin Categories Functionality (Add Category):

Component	Description	
Use Case Name	Add Category	
Preconditions	Category page should be rendered	
Typical Case of Events/ Main Success Scenario (U: Admin, S: System)	Step	Action
	1	U: Press Add Category button
	2	S: Shows a pop-up window with input filed
	3	U: Write the Category into the input field
	4	U: Press Save Changes button
	5	S: Redirects to Categories Page which shows the list of added categories
Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	1a	S: Throw Error Message
	3a	Leave the input field empty. S: Show a dialogue box message, Prompt user to fill this field

6. Test Case for Admin Categories Functionality (Add Category):

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Add new category	Any Alphanumeric value, can include special characters	Displays Message of “New Category Successfully added”, Displays list of Categories with Newly Added category in the list	Displays list of Categories with Newly Added category in the list
2	Invalid	Test Invalid Input (empty category field)	Empty Category Field	Show Error Message, Prompt user to fill this field.	Show Error Message, Prompt user to fill this field.

7. Use Case for Admin Categories Functionality (Update Category):

Component	Description	
Use Case Name	Update Category	
Preconditions	Category page should be rendered	
	Step	Action

Typical Case of Events/ Main Success Scenario (U: Admin, S: System)	1	U: Press Update button
	2	S: Shows a pop-up window with two input fields one is the serial or id, but it is not editable the other is the category name
	3	U: Edit the Category Name in the input field
	4	U: Press Update Changes button
	5	S: Redirects to Categories Page which shows the list of added categories
Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	1a	S: Throw Error Message
	3a	Leave the input field empty. S: Show a dialogue box message, Prompt user to fill this field

8. Test Case for Admin Categories Functionalities (Update Category):

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Check update existing category	Alphanumeric input	Show updated list of categories	Show updated list of categories
2	Valid	Test invalid input (empty field)	No input/ Empty fields	Show an error message to fill the input field.	Show updated list of categories
3	Valid	Test invalid input (use special characters as field input)	Special characters	Show an error message to enter a valid input	Show updated list of categories

9. Use Case for Admin Categories Functionality (Delete Category):

Component	Description	
Use Case Name	Delete Category	
Preconditions	Category page should be rendered	
Typical Case of Events/ Main Success Scenario (U: Admin, S: System)	Step	Action
	1	U: Press Delete button
	2	S: Redirects to Categories Page which shows the list of added categories after deleting the category
	Step	Action

Alternate Case of Events/ Extensions/ Alternate Courses	2a	S: Display error message, cannot delete category
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10. Test Case for Admin Categories Functionality (Delete Category):

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Delete an existing category	Press Delete button	Delete the category, Display List of Categories without deleted category	Redirects to Error Message Page: Whitelabel Error Page

11. Use Case for Admin Categories Functionality (Add Product in Products):

Component	Description	
Use Case Name	Add Product	
Preconditions	Product page should be rendered	
Typical Case of Events/ Main Success Scenario (U: Admin, S: System)	Step	Action
	1	U: Press Add Product button
	2	S: Shows a pop-up window with input fields
	3	U: Write the Name into the name input field
	4	U: Select Product Category
	5	U: Fill Price
	6	U: Fill Weight in grams
	7	U: Fill Available Quantity
	8	U: Fill Product Description
	9	U: Fill Image link
	10	U: Press Submit button
	11	S: Render the Product page which shows the list of added products
Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	1a	S: Throw Error Message

	3a	The input field empty. S: Show a dialogue box message, prompts the user to fill this field
	4a	Input field is empty. S: Redirects to Whitelabel Error Page
	5a	Input field is empty. S: Show a dialogue box message, prompts the user to fill this field
	6a	Input field is empty. S: Show a dialogue box message, prompts the user to fill this field
	7a	Input field is empty. S: Show a dialogue box message, prompts the user to fill this field
	8a	Input field is empty. S: Redirects to Whitelabel Error Page
	9a	Input field is empty. S: Show a dialogue box message, prompts the user to fill this field

12. Test Case for Admin Categories Functionality (Add Product in Products):

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Add New Product	Valid Product Name, Category, Price, Weight in grams, Available Quantity, Product Description, & Product Image	Redirect to Products Page, displays updated list of products with newly added product shown.	Redirect to Products Page, displays updated list of products with newly added product shown.
2	Invalid	Test invalid input (empty field)	No Product Name, Valid Category, Price, Weight in grams, Available Quantity, Product Description, & Product Image	Display Error Message, Prompt User to enter product name	Prompt User to enter product name

3	Invalid	Test invalid input (empty field)	Valid Product Name, Price, Weight in grams, Available Quantity, Product Description, & Product Image, No Category	Display Error Message, Prompt User to select category	Redirects to Error Page: Whitelabel Error Page
4	Invalid	Test invalid input (empty field)	No Product Price, Valid Product Name, Category, Weight in grams, Available Quantity, Product Description, & Product Image	Display Error Message, Prompt User to enter product price	Prompt User to enter product price
5	Invalid	Test invalid input (empty field)	No Product Weight in grams, Valid Product Name, Category, Price, Available Quantity, Product Description, & Product Image	Display Error Message, Prompt User to enter product weight in grams	Prompt User to enter product weight in grams
6	Invalid	Test invalid input (empty field)	No Available Quantity, Valid Product Name, Category, Price, Weight in grams, Available Quantity, Product Description,	Display Error Message, Prompt User to enter product's available quantity	Prompt User to enter product's available quantity

			& Product Image Link		
7	Invalid	Test invalid input (empty field)	No Product Description, Valid Product Name, Category, Price, Weight in grams, Available Quantity, & Product Image Link	Display Error Message, Prompt User to enter Product Description	Redirect to Products Page, displays updated list of products with newly added product (without description) shown.
8	Invalid	Test invalid input (empty field)	Valid Product Name, Category, Price, Weight in grams, Available Quantity, Product Description, & No Product Image Link	Display Error Message, Prompt User to enter product image link	Prompt User to enter product image link
			Valid Product Name, Category, Price, Weight in grams, Available Quantity, Product Description, & Invalid Product Image Link	Display Error Message, Prompt User to enter valid product image link	Redirect to Products Page, displays updated list of products with newly added product shown (error shown on product image).

13. Use Case for Admin Categories Functionality (Update Product in Products):

Component	Description	
Use Case Name	Update Product	
Preconditions	Product page should be rendered	
Typical Case of Events/ Main Success Scenario (U: Admin, S: System)	Step	Action
	1	U: Press Update button

	2	S: Redirects to Update Product Webpage with input fields to alter details of product
	3	U: Edit the input fields
	4	U: Press Update Changes button
	5	S: Redirects to Product Page which shows the list of added categories
Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	1a	S: Throw Error Message: Whitelabel Error Page
	3a	Input field is empty. S: show a dialogue box showing fill the empty fields and goes to step 3.

14. Test Case for Admin Categories Functionality (Update Product in Products):

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Test Update Functionality	Clicks “Update” Button	Redirects to Update Product Page	Redirects to Error Page: Whitelabel Error Page

15. Use Case for Admin Categories Functionality (Delete Product in Products):

Component	Description	
Use Case Name	Delete Product	
Preconditions	Product page should be rendered	
Typical Case of Events/ Main Success Scenario (U: Admin, S: System)	Step	Action
	1	U: Press Delete button
	2	S: Redirects to Product Page which shows the list of added products after deleting the product
Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	2a	S: Shows error message and cannot delete

16. Test Case for Admin Categories Functionality (Delete Product in Products):

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Test Delete Functionality	Clicks “Delete” button	Deletes Product, Displays Products List after deletion	Deletes Product, Displays Products List after deletion

Customers Category

- Page not interactive.
- Lists down all the registered users.
- Delete button not available.
- Data not editable.
- CRUD operations cannot be performed.

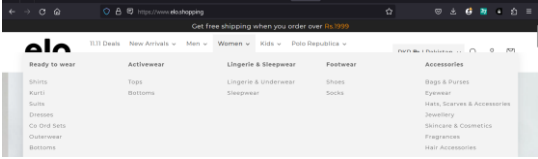
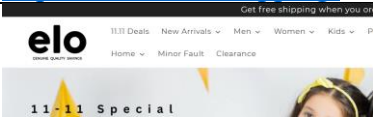
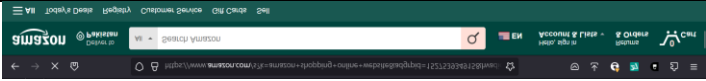
17. Use Case for Admin Categories Functionality (Customers Category):

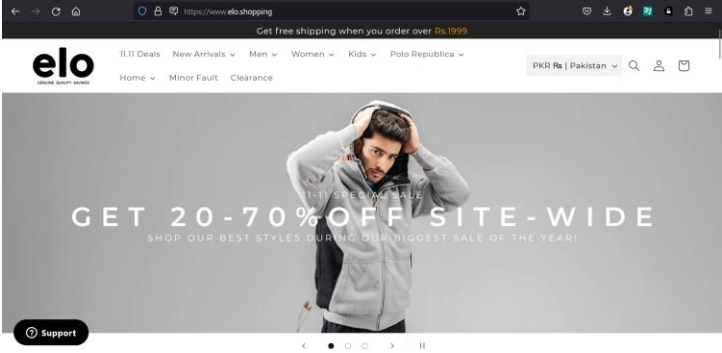
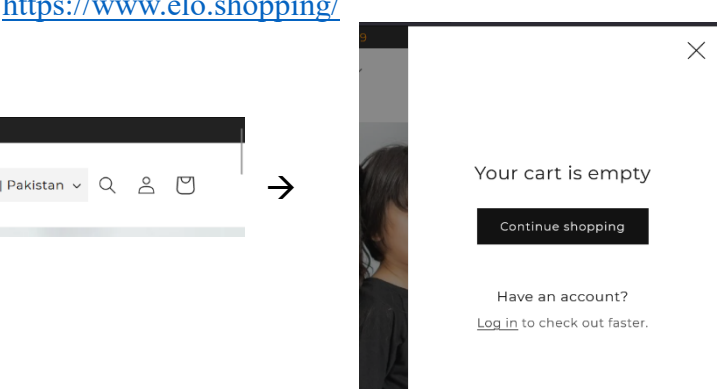
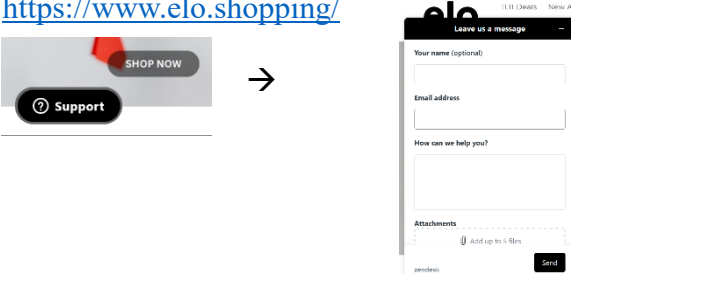
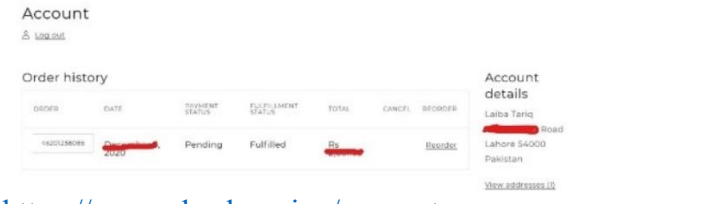
Component	Description	
Use Case Name	Customers Category	
Preconditions	Category page should be rendered	
Typical Case of Events/ Main Success Scenario	Step	Action
	1	S: List of Customers Registered Shown
Alternate Case of Events/ Extensions/ Alternate Courses	Step	Action
	-	-

18. Test Case for Admin Categories Functionality (Customers Category):

Test ID	Test Case Type	Purpose	Input(s)	Expected Output	Actual Output
1	Valid	Test Category	-	-	-

MISSING FUNCTIONALITIES:

Component	Where should it be?	Functionality / Purpose	Reference Website Link & Image
Drop Down Menu	Top of Page	Display all categories and options available on the website	 https://www.elo.shopping/
Logo / Name of Brand (instead of Welcome on home page)	Top left corner of every page	Redirects back to home page	 https://www.elo.shopping/
Search Bar	Top right corner/ top center of every page	Search any product on the website	 https://www.amazon.com/ref=nav_logo

Home Page	Preview before login on website	View website before logging in	 https://www.elo.shopping/
Shopping Cart	Opens when click cart icon on top right corner of page	View all products you have added to cart to purchase	
Support/ Help Center	Opens when click button on bottom left corner of the page	To ask for any help or clarify any ambiguity or query regarding a product or service offered by website.	
Account/ Profile	Opens when click profile option on top right corner of webpage	Displays details of account and order history.	 https://www.elo.shopping/account