Test Case Specification - E Commerce

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Each test case is designed to verify a specific aspect of the website or admin functionality and ensures that the E commerce website is functioning as expected. The test cases cover the following areas of the website:

1. User registration and login functionality to ensure that users can create accounts, login, and access their accounts.
2. Product search, product page, and checkout process to ensure that users can find products they are looking for, view product details, add products to their cart, and complete the checkout process.
3. Admin login and management functionalities to ensure that the admin can manage products and orders efficiently.

Each test case is designed to verify a specific aspect of the website, such as user registration or admin product management. For each test case, there are clear steps to follow to verify the functionality being tested.

By performing these test cases, the quality of the ecommerce website can be assured, and any issues or bugs can be identified and fixed before the website is released to the public.

Customer Perspective Test cases

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| Test Case Identifier | **TC 001** |
| Test Items/feature | Creating a new account |
| Preconditions | The customer is on the login page and has not registered an account before |
| Test Steps | 1. Click on the "Create an Account" button 2. Fill in the registration form with valid details such as name, email, and password 3. Submit the form by clicking on the "Create Account" button |
| Output Specifications | The system should create a new customer account with the provided details  The system should redirect the customer to the dashboard page or the home page |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 002** |
| Test Items/feature | Logging in to an existing account |
| Preconditions | The customer has a registered account on the website |
| Test Steps | 1. Enter the email and password in the login form 2. Click on the "Login" button |
| Output Specifications | The system should authenticate the customer credentials and redirect to the dashboard or home page  The system should display an error message if the customer enters invalid credentials |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 003** |
| Test Items/feature | Searching for a product |
| Preconditions | The customer is on the home page or a category page |
| Test Steps | 1. Enter the product name or keyword in the search bar 2. Click on the "Search" button |
| Output Specifications | The system should display a list of products that match the search query  The product list should include relevant details such as name, image, price, and availability  The system should display a message if there are no matching products found |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 004** |
| Test Items/feature | Adding a product to the cart |
| Preconditions | The customer is on the product detail page |
| Test Steps | 1. Select the quantity and size (if applicable) of the product 2. Click on the "Add to Cart" button |
| Output Specifications | The system should add the selected product to the customer's cart  The system should display a message confirming that the product has been added to the cart |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 005** |
| Test Items/feature | Viewing the cart |
| Preconditions | The customer has added one or more products to the cart |
| Test Steps | 1. Click on the cart icon in the header or the "View Cart" button |
| Output Specifications | The system should display a summary of the products in the cart, including name, image, price, and quantity  The system should display the total price of the products in the cart  The system should provide options to remove or modify the products in the cart |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 006** |
| Test Items/feature | Placing an order |
| Preconditions | The customer has added one or more products to the cart and is on the checkout page |
| Test Steps | 1. Fill in the shipping and billing details in the checkout form 2. Select the payment method (e.g., credit card, PayPal) 3. Review the order summary and confirm the purchase by clicking on the "Place Order" button |
| Output Specifications | The system should process the payment and create an order for the customer  The system should redirect the customer to the order confirmation page and display the order details, including order number, date, and total amount  The system should send an email confirmation to the customer's registered email address |
| Inter-case Dependencies | None |
| **Test Result** |  |
| Test Case Identifier | **TC 007** |
| Test Items/feature | Shopping Cart |
| Preconditions | The user should have added products to their cart. |
| Test Steps | 1. Click on the ‘Cart’ icon on the website. 2. Verify that the products added to the cart are displayed. 3. Verify that the product information such as quantity and total price are accurate. 4. Verify that the user is able to update the product quantity or remove a product from the cart. |
| Output Specifications | The cart should display the products added to it, and the user should be able to manage their cart items. |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 008** |
| Test Items/feature | Paypal Testing account Checkout |
| Preconditions | The user should have products in their cart. |
| Test Steps | 1. Click on the ‘Checkout’ button on the cart page. 2. Verify that the order summary is displayed correctly. 3. Click on the ‘Place Order’ button. |
| Output Specifications | The user should be able to place their order successfully and receive an order confirmation. |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 009** |
| Test Items/feature | Updating account information |
| Preconditions | The customer is logged in to the website |
| Test Steps | 1. Go to the account dashboard or profile page 2. Click on the "Edit Profile" or "Account Settings" button 3. Update the account information, such as name, email, password, and shipping address 4. Save the changes by clicking on the "Save" button |
| Output Specifications | The system should update the customer account information with the new details  The system should display a message confirming that the changes have been saved successfully  The customer should be able to see the updated information in the account dashboard or profile page. |
| Inter-case Dependencies | None |
| **Test Result** |  |

Admin Test cases

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| Test Case Identifier | **TC 010** |
| Test Items/feature | Login functionality |
| Preconditions | The admin is on the login page of the website |
| Test Steps | 1. Enter valid username and password and click the login button 2. Enter invalid username and password and click the login button |
| Output Specifications | The admin should be able to log in successfully with valid credentials  The admin should not be able to log in with invalid credentials  The admin should be redirected to the correct page after logging in |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 011** |
| Test Items/feature | Product management - Adding a new product |
| Preconditions | The admin is logged in to the website and on the product management page |
| Test Steps | 1. Click on the "Add Product" button 2. Enter product details such as name, description, price, and image 3. Click on the "Save" button |
| Output Specifications | The admin should be able to add a new product with correct details  The new product should be displayed in the product list page |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 012** |
| Test Items/feature | Product management - Editing an existing product |
| Preconditions | The admin is logged in to the website and on the product management page  There is an existing product in the product list |
| Test Steps | 1. Select the product to be edited 2. Click on the "Edit" button 3. Modify the product details such as name, description, price, and image 4. Click on the "Save" button |
| Output Specifications | The admin should be able to edit an existing product with correct details  The updated product should be displayed in the product list page with updated details |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 013** |
| Test Items/feature | Product management - Deleting a product |
| Preconditions | The admin is logged in to the website and on the product management page  There is an existing product in the product list |
| Test Steps | 1. Select the product to be deleted 2. Click on the "Delete" button |
| Output Specifications | The admin should be able to delete an existing product  The deleted product should not be displayed in the product list page |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 014** |
| Test Items/feature | Order management - Viewing all orders |
| Preconditions | The admin is logged in to the website and on the order management page  There are at least two orders placed on the website |
| Test Steps | 1. Click on the "View All Orders" button |
| Output Specifications | The admin should be able to view a list of all orders placed on the website  The list of orders should display relevant details such as order ID, customer name, order status, and date |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 015** |
| Test Items/feature | Order management - Viewing individual orders |
| Preconditions | The admin is logged in to the website and on the order management page  There is an existing order in the list of orders |
| Test Steps | 1. Click on the order ID of the desired order |
| Output Specifications | The admin should be able to view details of an individual order  The details should include relevant information such as order ID, customer name, shipping address, order items, and payment information |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 016** |
| Test Items/feature | User management - Viewing all users |
| Preconditions | The admin is logged in to the website and on the user management page  There are at least two registered users on the website |
| Test Steps | 1. Click on the "View All Users" button |
| Output Specifications | The admin should be able to view a list of all registered users on the website  The list of users should display relevant details such as user ID, username, email, and registration date |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 017** |
| Test Items/feature | User management - Editing users |
| Preconditions | The admin is logged in to the website and on the user management page  There is at least one registered user on the website |
| Test Steps | 1. Select the user to be edited from the list of users 2. Click on the "Edit" button next to the selected user 3. Modify the user details such as username, email, password, and address 4. Click on the "Save" button |
| Output Specifications | The admin should be able to edit the user details with correct information  The updated user details should be saved and reflected in the list of users |
| Inter-case Dependencies | None |
| **Test Result** |  |

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| Test Case Identifier | **TC 018** |
| Test Items/feature | User management - Deleting user accounts |
| Preconditions | The admin is logged in to the website and on the user management page  There is at least one registered user on the website |
| Test Steps | 1. Select the user to be deleted from the list of users 2. Click on the "Delete" button next to the selected user 3. Confirm the deletion by clicking on the "Yes" button in the confirmation dialog box |
| Output Specifications | The admin should be able to delete the user account successfully  The selected user account should be permanently removed from the website  The admin should not be able to undo the deletion once it is confirmed |
| Inter-case Dependencies | None |
| **Test Result** |  |