**Use Cases for Online Shopping Management System (SMS)**

1. Use Case: Perform Login

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| **User Action** | **System Response** |
| 1. User navigates to main landing page and clicks on "Sign in" option | 1. System displays the sign in modal prompting user to provide username and password |
| 1. User provides username and password and clicks on "submit" button | 2. System verifies user credentials,  Logs him/her in and creates a session |

1. Use Case: Display Categories

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| **User Action** | **System Response** |
| 1. Admin selects "Categories" from the provided menu bar | 1. System displays the page which has categories listed |

1. Use Case: Add Categories

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| **User Action** | **System Response** |
| 1. After successfully displaying categories, admin selects the option "Add Categories" | 1. System displays the page which has the required fields for adding a category |
| 1. Admin enters required information such as Category Name etc. and clicks submit button | 2. System validates provided data, adds a new category to the system and displays a message "Category Added!" |

1. Use Case: Edit Categories

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| **User Action** | **System Response** |
| 1. Admin clicks on the "Edit Category" option | 1. System displays the edit category page with information already added for the category |
| 1. Admin performs the required changes and clicks on "Edit" button | 2. System validates provided data, saves the changes performed by user and displays a message "Category Edit Successfully!" |

1. Use Case: Add Product

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| **User Action** | **System Response** |
| 1. Admin selects the option "Add Product" from the provided menu | 1. System displays the page which has the required fields for adding a product |
| 1. Admin enters required information such as Product Name, Category Information, images etc. and clicks submit button | 2. System validates provided data, adds a new product to the system and displays a message "Product Added!" |

1. Use Case: Display Products

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| **User Action** | **System Response** |
| 1. User clicks on "Home" Page | 1. System displays the main page all of the available products |

1. Use Case: Disable Products

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| **User Action** | **System Response** |
| 1. Admin clicks on "Display Products" from the provided menu bar | 1. System displays all the available products in a list |
| 1. Admin selects a particular product and clicks on "Disable" button | 2. System displays confirmation dialogue box, disables product accordingly and displays a message "Product Disabled Successfully!" |

1. Use Case: Edit Products

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| **User Action** | **System Response** |
| 1. Admin clicks on "Display Products" from the provided menu bar | 1. System displays all the available products |
| 1. Admin selects a particular product and clicks on "Edit Product" | 2. System displays the product details already populated to text fields for admin to edit |
| 1. Admin enters required changes and clicks on "Submit" button | 3. System accepts the changes done by admin and displays a success message "Product Changed successfully!" |

1. Use Case: Disable Categories

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| **User Action** | **System Response** |
| 1. Admin clicks on "Display Categories" from the provided menu bar | 1. System displays all the available categories in a list |
| 1. Admin selects a particular category and clicks on "Disable" button | 2. System displays confirmation dialogue box, disables category accordingly and displays a message "Category Disabled Successfully!" |

1. Use Case: Display Customer Orders

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| **User Action** | **System Response** |
| 1. Admin clicks on the option "Display Customer Orders" from the provided menu | 1. System displays the customer's orders in a list which are sorted by date |

1. Use Case: Notify Users for Sale

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| **User Action** | **System Response** |
| 1. Admin clicks on the option "Notify users about Sale/Offer" | 1. System displays a page which has required fields such as Email Text |
| 1. Admin enters the required email text intended for Customers | 2. System validates the text, sends the text as email to subscribed Customers and displays success message "Notification Sent Successfully". |

1. Use Case: Perform Registration

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| **User Action** | **System Response** |
| 1. User selects "Sign Up" option from the provided menu | 1. System displays a bootstrap modal having fields such as First Name, Last name, email address, password, shipping address and contact etc. |
| 1. User enters required information and clicks on submit option | 2. System validates the provided data and sends an email address on the provided email address with a verification code |

1. Use Case: Verify Customer Email

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| **User Action** | **System Response** |
| 1. Unverified Customers, after registration, provides credentials on login page and clicks on "Sign In" option | 1. System verifies credentials and displays a verification page prompting user to enter 5-digit verification code which was sent to his/her provided email address at the time of registration |
| 1. User enters the verification code and clicks on "Submit" button | 2. System accepts the provided verification code and updates customer's account to be verified. |

1. Use Case: Recover Password

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| **User Action** | **System Response** |
| 1. User clicks on the "Forget Password" option located with the "Sign In" button | 1. Systems displays another page prompting user to enter his/her email address |
| 1. User enters his/her email address and clicks on "Recover Password" button | 2. System verifies the email address, updates the user's password to a random number and send that random number on provided email address |

1. Use Case: Place Orders

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| **User Action** | **System Response** |
| 1. While browsing products, User clicks on a particular product's "Add to cart" option | 1. System displays a dialogue box of shopping cart with total amount to the user |
| 1. User selects "Check Out" option | 2. System check outs the selected items, updates inventory and emails the receipt to customer as confirmation |

1. Use Case: Rate/Review Products

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| **User Action** | **System Response** |
| 1. User selects a particular product and clicks on its name | 1. System displays product details |
| 1. User scroll downs and reviews product by providing a comment, stars out of five | 2. System accepts the review, successfully posts it and displays message "Review added successfully!" |

1. Use Case: Contact Administrator

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| **User Action** | **System Response** |
| 1. User clicks on the "Contact Us" option provided on the menu | 1. System displays the contact us page |
| 1. User enters his/her query/suggestion/issue and clicks on "submit" button | 2. System validates the provided data, sends query/suggestion/issue to admin and displays a success message "Query/Suggestion/Issue sent successfully!" |

1. Use Case: Subscribe to Email Notification

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| **User Action** | **System Response** |
| 1. User clicks on the "Subscribe to Email Notifications" option | 1. System acknowledges by adding the customer's details to subscribed customers for Sales/new offers |

1. Use Case: Perform Logout

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| **User Action** | **System Response** |
| 1. User clicks on the "Logout" option provided on the menu | 1. System logs out user and ends session for him/her |

**Use Case Diagram**

