**Use Case Scenario**

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| **Use Case Name: View books** |
| **Actor:** User  **Scenario:**   * Display books by category. * Display options (buy/rent). * Suggestions of books based on search history. * Rate books.   **Exception:**   * Unable to display books. * Required page not found. * Failure while connecting to database.   **Pre Condition:**   * Users have to visit the website.   **Post Condition:**   1. **Successful:**  * Visit the website. * View the book list.  1. **Unsuccessful:**  * Show an error message and stay on the homepage.  1. **Exception:**  * Stay on the homepage if possible. |

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| **Use Case Name: Log In** |
| **Actor:** User  **Scenario:**   * Input user id or email or phone number and password. * matching user information on the database.   **Exception:**   * Failure while connecting to database. * Too many login requests within a short time. * Required page not found.   **Pre Condition:**   * Login page from web browser.   **Post Condition:**   1. **Successful login:**  * Logging in to the system.  1. **Unsuccessful login:**  * Show an error message and stay on the “view books”/homepage.  1. **Exception:**  * Stay on the “view books” page/home page. |

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| **Use Case Name: Register new user** |
| **Actor:** User  **Scenario:**   * Input name of the user, username (user-id), email address, password, address, date of birth, email * Check username whether it’s unique or not. * Rematch password. * Store user information into the database.     **Exception:**   * Failure while connecting to database. * Required page not found.   **Pre Condition:**   * URL of the **“Sign UP here”** hyperlink page.   **Post Condition:**   1. **Successful:**  * Register new user successfully. * URL of the login page.  1. **Unsuccessful:**  * Show an error message and stay on the “view books”.  1. **Exception:**  * Stay on the “view books” page/home page if possible. |

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| **Use Case Name: Cart** |
| **Actor:** User  **Scenario:**   * Add books in the cart. * View books in the cart. * Remove from the cart. * Update cart. * Proceed to checkout.   **Exception:**   * Required page not found. * No database connection.   **Pre Condition:**   * Must be a registered user to access cart. * Customer has added at least 1 item to the shopping cart. * URL of cart page from web browser.   **Post Condition:**   1. **Successful add/update-**  * successfully added/updated books in the cart. * Successful view- stays on the cart page.  1. **Unsuccessful:**  * Stay on the same page showing error message.  1. **Exception:**  * Stay on the same page if possible. |

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| **Use Case Name: Buy or rent books** |
| **Actor:** User  **Scenario:**   * System checks for the availability of the book in the database. * Buy books. * rent books * Add it to the cart. * Return books in case of rent.   **Exception:**   * Failure while connecting to database. * Required page not found.   **Pre Condition:**   * Must be logged in.   **Post Condition:**   1. **Successful :**  * The book is added to the cart.  1. **Unsuccessful :**  * Show error.  1. **Exception:**  * Stay on the same page. |

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| **Use Case Name: Payment** |
| **Actor:** User  **Scenario:**   * View total to pay. * Select the payment method. * Validate payment by the system. * Add coupon or discount. * Adjust and update payment to the profile/order by the system.   **Exception:**   * Failure while connecting to the database. * Required page not found.   **Pre Condition:**   * Must be a registered user. * Payment method must be selected. * Validate payment by system. * There can be no due in case of renting. * Adjustment for the amount. * Check for premium user status for discount and coupon related works. * Customer has added at least 1 item to the shopping cart. * URL of cart page from web browser. * Check delivery address and customer contact number.   **Post Condition:**  **1. Successful :**   * Payment confirmation send with email. * Redirect to the homepage.   **2.Unsuccessful:**   * Payment method not selected.   **3.Exception:**   * Stay on the homepage/ on the same page. |

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| **Use Case Name: Wishlist** |
| **Actor:** User  **Scenario:**   * Add books to the wishlist. * Update wishlist. * Create personalized category.   **Exception:**   * Failure while connecting to database. * Required page not found.   **Pre Condition:**   * Must be registered customer. * Customer has added at least 1 item to the shopping cart. * URL of “wishlist”page from web browser.   **Post Condition:**  **1.Successful :**   * Display wishlist. * Suggestions.   **2.Unsuccessful :**   * Show an error message and return to “home page”   **3.Exception:**   * Stay on the same page. |

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| **Use Case Name: Order** |
| **Actor:** User  **Scenario:**   * Check order status. * Update order. * Cancel order if it’s still pending. * Return delivered orders. * Adjust payments. * View order history**.**   **Exception:**   * Database connection of the item detail failed. * Database connection of the user stats database has failed. * Required page not found.   **Pre Condition:**   * Logging in is required to view and enter into the order page. * Need at least 1 order done to view order history.   **Post Condition:**  **Success:**   * Stays on the order page, let the user to interact with it.   **Unsuccessful login:**   * Displays error message and redirect   **Exception**   * Stay on same page if possible. |

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| **Use Case Name: Profile** |
| **Actor:** user  **Scenario:**   * View user profile. * Add new information to the profile(New address, phone number, billing information etc). * Remove information from the profile. * Update information into the profile(Address, phone number, billing information etc). * Keep profile information anonymous. * Merging multiple accounts. * Request for removing the user.     **Exception:**   * Unable to update information on the database. * Failure while connecting to database. * Required page not found.   **Pre Condition:**   * User needs to log in first to view the “profile”/”update profile” page.   **Post Condition:**   1. **Successful:**  * Profile is successfully updated.  1. **Unsuccessful :**  * Stay on the same page and display error message.  1. **Exception:**  * Stay on the “profile” page. |

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| **Use Case Name: Search** |
| **Actor: User**  **Scenario:**   * Search books by keywords. * Search books by book names. * Search books by author names. * More filter options after search.   **Exception:**   * Failure while connecting to database. * Required page not found.   **Pre Condition:**   * URL of “search”page from web browser.   **Post Condition:**   1. **Successful:**  * Show all books matched by search keywords. * Advanced filter options. * Sorting books(by name,by price, by date etc ).  1. **Unsuccessful:**  * Display with unsuccessful message and redirect to view books list/home page.  1. **Exception:**  * Stay on the same page and display error message. |

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| **Use Case Name: Log out** |
| **Actor:** User  **Scenario:**   * Log out from the system.   **Exception:**   * Required page not found.   **Pre Condition:**   * User must be logged in to perform log out.   **Post Condition:**   1. **Successful:**  * Returns to the homepage with login/sign up option.  1. **Unsuccessful:**  * Display with unsuccessful message.  1. **Exception:**  * Stay on the same page. |