**User Acceptance Testing (UAT) Template**

| Date | **10-04-2025** |
| --- | --- |
| Team ID | **SWTID1743689974** |
| Project Title | **BookStore** |
| Maximum Marks | **10** |

**6.1 User Acceptance Testing (UAT)**

**Project Overview**

* **Project Name: MERN Bookstore Platform**
* **Project Description:**A robust, full-stack MERN (MongoDB, Express.js, React.js, Node.js) web application designed for an online bookstore supporting Firebase Authentication and MongoDB Atlas integration. The system accommodates three distinct user roles (Admin, Seller, Buyer), providing a comprehensive user experience that includes genre-based browsing, top-selling books, personalized recommendations, editorial news content, a wishlist module, and a shopping cart system.
* **Project Version: 1.0.0**
* **Testing Period: April 1, 2025 – April 10, 2025**

**Testing Scope**

**Features and Functionalities to be Tested:**

* Firebase-based user authentication and session management
* Role-based access control and authorization
* Book browsing and filtering by genre
* Dynamic "Top Sellers" page rendering and ranking logic
* AI-based or algorithmic "Recommended for You" section
* Editorial/News blog integration and content delivery
* Wishlist functionality (add/remove/view)
* Shopping cart management (add/edit/delete/quantity updates)
* Seller/admin book listing management interface
* Data flow validation between client, server, and MongoDB Atlas
* Responsive design compatibility across devices and browsers

**User Stories to be Validated:**

* Users can authenticate and retain session via Firebase securely.
* Buyers can navigate and filter books by chosen genres.
* Buyers can interact with and manage wishlist and cart items.
* Admins/sellers can upload and manage book entries.
* Buyers can view and interact with recommendation logic and top-selling titles.
* News section loads dynamically with valid editorial entries.
* All user flows comply with functional and UI/UX design expectations.

**Testing Environment**

* Deployment URL:<https://book-store-frontend-sigma-beige.vercel.app/>
* Tech Stack: React.js (frontend), Express.js & Node.js (backend), MongoDB Atlas (database), Firebase (auth)
* Credentials (if required):
  + Admin: admin@test.com / password123
  + Buyer: buyer@test.com / password123

**Test Cases**

| **Test Case ID** | **Test Scenario** | **Test Steps** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- | --- |
| TC-001 | Firebase Authentication | 1. Navigate to login page 2. Enter valid credentials 3. Submit form | User is redirected to dashboard with correct role access | [To be filled] | [To be filled] |
| TC-002 | Book Genre Filtering | 1. Navigate to homepage 2. Select genre from dropdown 3. View filtered results | Books are displayed based on selected genre | [To be filled] | [To be filled] |
| TC-003 | Add to Wishlist | 1. Log in as buyer 2. Click "Add to Wishlist" on a book 3. Check Wishlist page | Book appears in wishlist | [To be filled] | [To be filled] |
| TC-004 | Add to Cart | 1. Log in as buyer 2. Click "Add to Cart" 3. View Cart page | Book is listed in cart with default quantity | [To be filled] | [To be filled] |
| TC-005 | Recommended Books Section | 1. Navigate to homepage 2. View recommended section | Books are dynamically populated based on logic or user history | [To be filled] | [To be filled] |
| TC-006 | Top Seller Page | 1. Navigate to "Top Sellers" page | Books are listed based on sales ranking logic | [To be filled] | [To be filled] |
| TC-007 | News Section Rendering | 1. Navigate to "News" section | Editorial/blog content is displayed with proper formatting | [To be filled] | [To be filled] |

**Bug Tracking**

| **Bug ID** | **Bug Description** | **Steps to Reproduce** | **Severity** | **Status** | **Additional Feedback** |
| --- | --- | --- | --- | --- | --- |
| BG-001 | Wishlist not updating on item removal | 1. Add book to wishlist 2. Remove from wishlist 3. Refresh page | Medium | Open | State not syncing with database |
| BG-002 | "Top Sellers" sorting not accurate | 1. Navigate to top sellers 2. Compare actual sales data | High | In Progress | Logic discrepancy in sort function |

**Sign-Off**

* Tester Name: [Insert Name]
* Date of Test Completion: [Insert Date]
* Signature: [Insert Digital Signature or Initials]

**Notes:**

* Ensure that all test cases cover both positive and negative scenarios.
* Encourage testers to provide detailed feedback, including any suggestions for improvement.
* Bug tracking should include details such as severity, status, and steps to reproduce.
* Obtain sign-off from both the project manager and product owner before proceeding with deployment.