

USER ACCEPTANCE TESTING (UAT)

Project: NextChapter – Online Book Reading Platform

Tools used - Playwright

1. Introduction

User Acceptance Testing (UAT) was conducted to evaluate whether the NextChapter online book store meets the expectations of end users and administrators.

The objective of UAT is to validate real-world user flows such as browsing, reading, and admin book management.

This report contains the list of User Acceptance Criteria (UAC), corresponding Playwright and manual test cases, expected results, actual results spreadsheet report.

2. User Roles

The system supports the following roles:

- **Guest User** – Can browse and search books without authentication.
- **Registered User** – Can log in, highlight, bookmark, add to cart, and purchase books.
- **Admin** – Can manage book inventory and view user interactions.

3. User Acceptance Criteria (UAC)

Authentication

1. The system must allow a user to register using email and password.
2. The system must allow a user to register using Google login.
3. The system must allow a user to register using Apple login.
4. The system must allow existing users to log in with valid credentials.
5. The system must deny login attempts with invalid credentials and forgot password.

Catalogue and Book Discovery

6. The system must display the list of available books under the “Explore Books” section.
7. The system must allow the user to search using keywords (title, author, genre).
8. The system must allow the user to open a book details page from the catalogue.

Book Details Page

9. The system must allow the user to add a book to their wishlist.
10. The system must allow the user to mark a book as read.
11. The system must allow the user to rate a book.

12. The system must display the average rating of the book.
 13. The system must allow the user to write and post a comment.
 14. The system must allow the user to reply to an existing comment.
 15. The system must allow the user to like comments or replies.
 16. The system must allow the user to report inappropriate comments or replies.
 17. The system must display the reading progress percentage for the book (if implemented).
 18. The system must allow the user to click “Read Now” to open the reading interface.
-

AI Comment Moderation

19. The system must analyze comments and replies using the AI moderation API before posting.
 20. If content is flagged with high confidence, the system must block the posting of that comment or reply.
 21. The system must show a warning popup/message when a comment or reply is blocked.
 22. Only approved content must be allowed to appear in the comments section.
-

Reading Interface (Reader)

23. The system must allow the user to highlight text.
24. The system must allow the user to play the audiobook version if available.
25. The system must allow the user to bookmark pages.
26. The system must allow the user to navigate using Next and Previous buttons.

27. The system must allow the user to search word meanings using the dictionary text box.

AI Features

28. If enabled, the system must allow the user to chat with the AI chatbot.

29. If enabled, the system must allow the user to generate images using the AI image generator.

User Profile

30. The system must allow the user to view their profile details.

31. The system must allow the user to edit their profile information.

User Analytics

32. The system must display the total number of books the user has read.

33. The system must display the user's most-read genres.

34. The system must display the user's reading streak.

35. The system must display the Continue Reading section.

Session Management

36. The system must allow the user to log out successfully.

Subscription

- 37. The “Take Subscription” button must be redirected to the subscription page.
 - 38. Clicking the button must not start a payment flow (UI only, non-functional).
-

Admin Authentication

- 39. The system must allow the admin to log in using valid admin credentials.
-

Admin Profile

- 40. The admin must be able to view their profile details.
-

Admin Dashboard and Analytics

- 41. The system must display user statistics.
 - 42. The system must display reading statistics.
 - 43. The system must display revenue statistics.
 - 44. The system must display top books and genres.
-

Book Management

- 45. The admin must be able to add a new book.
- 46. The admin must be able to remove an existing book.

47. The admin must be able to edit book details of an existing book.

48. The admin must be able to search books using a search input field.

Comment and Complaint Management

49. The admin must be able to view all reported comments and replies.

50. The admin must be able to accept or reject each reported item.

Reading mode

51. The User must be able to switch between Light/Dark/Reading mode.

4. UAT Test Cases

Playwright Recorded Test cases

UI – Reader

- Bookmark page → `ui/reader/reader.spec.js`
- Read now → `ui/reader/reader.spec.js`
- Go to desired page → `ui/reader/reader.spec.js`
- Change reading mode → `ui/reader/reader.spec.js`
- Play audio book → `ui/reader/reader.spec.js`

- Dictionary meaning right word → ui/reader/reader.spec.js
 - Dictionary meaning wrong word → ui/reader/reader.spec.js
 - Chatbox → ui/reader/reader.spec.js
 - Image generation → ui/reader/reader.spec.js
-

UI – Analytics

- Search for book → ui/analytics/analytics.spec.js
-

UI – Authentication

- User login with valid credentials → ui/authentication/login.spec.js
 - User login with invalid credentials → ui/authentication/login.spec.js
 - Register → ui/authentication/register.spec.js
-

UI – Book Details

- Open book details page → ui/bookDetails/book.spec.js
 - Acceptable comment → ui/bookDetails/book.spec.js
 - Unacceptable comment → ui/bookDetails/book.spec.js
 - Add to Reading list → ui/bookDetails/book.spec.js
 - Mark as read → ui/bookDetails/book.spec.js
 - Report Comment → ui/bookDetails/book.spec.js
-

UI – Catalogue

- Explore Books → ui/catalogue/browse.spec.js
 - Search for book → ui/catalogue/browse.spec.js
 - Apply filter → ui/catalogue/browse.spec.js
-

UI – Profile

- View Profile → ui/profile/profile.spec.js
 - Update Profile → ui/profile/profile.spec.js
-

UI – Session

- Logout → ui/session/logout.spec.js
-

Admin – Book Management

- Add book → admin/bookManagement/bookManagement.spec.js

Admin – Comment Management

- Reviewing Reported Comments →
admin/commentManagement/commentManagement.spec.js

Admin – Authentication

- Admin login with valid credentials → admin/authentication/adminLogin.spec.js
-

Manually tested test cases

Authentication

- Verify user can register using Google login.
 - Verify user can register using Apple login.
 - Check forgot password functionality.
-

Catalogue & Book Discovery

- Verify user can open a book details page directly from the catalogue list.
-

Book Details Page

- Verify the system displays the average rating of the book.
 - Verify the user can reply to an existing comment.
 - Verify the user can like comments and replies.
 - Verify the reading progress percentage is displayed.
-

Reading Interface

- Verify the user can highlight text.
 - Verify the Next and Previous navigation buttons work properly.
-

Analytics

- Verify the total number of books read is displayed.
 - Verify the user's most-read genres are displayed.
 - Verify the user's reading streak is displayed.
 - Verify the Continue Reading section is displayed correctly.
-

Subscription

- Verify the "Take Subscription" button redirects to the subscription page.
-

Admin Dashboard & Analytics

- Verify user statistics are displayed.
 - Verify reading statistics are displayed.
 - Verify revenue statistics are displayed.
 - Verify top books and genres are displayed.
-

Admin Book Management

- Verify the admin can add a book.
- Verify the admin can remove a book.
- Verify the admin can edit book details
- Verify the admin can search for books in the admin panel.

Admin Comment & Complaint Management

- Verify the admin can accept a reported comment or reply.
- Verify the admin can reject a reported comment or reply.

5. UAT Spreadsheet Report

<https://docs.google.com/spreadsheets/d/1WYS0bEZpfePY6bUztw6fVlIF-BtRG-l1rDsloPtQLFY/edit?usp=sharing>

6. Logs from playwright report

```
2 failed
[chromium] > tests\admin\bookManagement\bookManagement.spec.js:3:5 > Add book _____
[chromium] > tests\admin\commentManagement\commentManagement.spec.js:3:5 > Reviewing Reported Comments
1 flaky
[chromium] > tests\ui\reader\reader.spec.js:33:5 > Bookmark page _____
24 passed (1.9m)
```

Q

All 27 ✓ Passed 24 ✗ Failed 2 ⚠ Flaky 1 Skipped 0 ⚙

Project: chromium24/11/2025, 23:03:29 Total time: 1.9m

admin/bookManagement/bookManagement.spec.js

✗ Add book chromium29.7s

admin/bookManagement/bookManagement.spec.js:3▶📄View Trace

admin/commentManagement/commentManagement.spec.js

✗ Reviewing Reported Comments chromium26.6s

admin/commentManagement/commentManagement.spec.js:3▶📄View Trace

ui/reader/reader.spec.js

⚠ Bookmark page chromium1.2m

ui/reader/reader.spec.js:33▶📄View Trace

✓ Read now chromium5.3s

ui/reader/reader.spec.js:3

✓ Go to desired page chromium7.0s

ui/reader/reader.spec.js:16

✓ Change reading mode chromium3.2s

ui/reader/reader.spec.js:51

✓ Play audio book chromium5.7s

ui/reader/reader.spec.js:67

✓ Dictionary meaning right word chromium3.3s

ui/reader/reader.spec.js:83

✓ Dictionary meaning wrong word chromium3.3s

ui/reader/reader.spec.js:100

✓ Chatbox chromium3.5s

ui/reader/reader.spec.js:117

✓ Image generation chromium3.4s

ui/reader/reader.spec.js:135

admin/authentication/adminLogin.spec.js

✓ Admin login with valid credentials chromium3.6s

admin/authentication/adminLogin.spec.js:3

admin/authentication/adminLogin.spec.js		
✓ Admin login with valid credentials chromium		3.6s
admin/authentication/adminLogin.spec.js:3		
ui/analytics/analytics.spec.js		
✓ Search for book chromium		5.1s
ui/analytics/analytics.spec.js:3		
ui/authentication/login.spec.js		
✓ user login with valid credentials chromium		2.6s
ui/authentication/login.spec.js:3		
✓ user login with invalid credentials chromium		2.3s
ui/authentication/login.spec.js:13		
ui/authentication/register.spec.js		
✓ Register chromium		4.9s
ui/authentication/register.spec.js:3		
ui/bookDetails/book.spec.js		
✓ Open book details page chromium		5.1s
ui/bookDetails/book.spec.js:3		
✓ Acceptable comment chromium		7.2s
ui/bookDetails/book.spec.js:16		
✓ Unacceptable comment chromium		6.8s
ui/bookDetails/book.spec.js:31		
✓ Add to Reading list chromium		4.1s
ui/bookDetails/book.spec.js:49		

ui/authentication/register.spec.js		
✓ Register chromium		4.9s
ui/authentication/register.spec.js:3		
ui/bookDetails/book.spec.js		
✓ Open book details page chromium		5.1s
ui/bookDetails/book.spec.js:3		
✓ Acceptable comment chromium		7.2s
ui/bookDetails/book.spec.js:16		
✓ Unacceptable comment chromium		6.8s
ui/bookDetails/book.spec.js:31		
✓ Add to Reading list chromium		4.1s
ui/bookDetails/book.spec.js:49		
✓ Mark as read chromium		4.5s
ui/bookDetails/book.spec.js:62		
✓ Report Comment chromium		4.6s
ui/bookDetails/book.spec.js:75		
ui/catalogue/browse.spec.js		
✓ Search for book chromium		4.7s
ui/catalogue/browse.spec.js:3		
✓ Apply filter chromium		6.0s
ui/catalogue/browse.spec.js:16		
ui/profile/profile.spec.js		
✓ View Profile chromium		7.0s
ui/profile/profile.spec.js:3		
✓ Update Profile chromium		8.0s
ui/profile/profile.spec.js:16		
ui/session/logout.spec.js		
✓ Logout chromium		5.0s
ui/session/logout.spec.js:3		

7. UAT Summary

The UAT results for **NextChapter** indicate that all primary user-facing functionalities are performing as expected. Core flows such as user authentication (registration and login), catalogue browsing, book discovery, book-level interactions (reading list, marking as read, bookmarking, commenting), and essential reading interface tools (dictionary lookup, audiobook playback, navigation) function correctly. Profile management and user session handling are stable, and analytics elements such as search are operational.

However, several advanced features remain incomplete or non-functional, including AI-driven components (chatbot and image generation), subscription flow actions, and key admin capabilities such as book management and moderation of reported comments. Overall, the platform demonstrates strong stability in end-user workflows, while administrative and AI-based features require further development and testing.