

User Acceptance Testing (UAT)

IT314 - Software Engineering

Group 10



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Next Chapter

Online Book Reading Platform

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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.
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3. User Acceptance Criteria (UAC)

User Authentication

1. The system must allow a user to register using an 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.
 6. The system must deny registration attempts using an already registered email address.
 7. The “Forgot Password” option must trigger the reset process via the registered email ID.
 8. Successful login must redirect the user to the User Dashboard.
 9. Successful login must additionally notify the user through email.
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Catalogue and Book Discovery

10. The system must display all available books under the “Explore Books” section.
 11. The system must allow users to filter books using keywords such as title, author, and genre.
 12. The system must allow users to open a detailed book page from the catalogue.
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Book Details Page

13. The system must allow the user to add a book to their wishlist.
14. The system must allow the user to mark a book as “Read.”
15. The system must allow the user to rate a book.
16. The system must display the book’s average rating.
17. The average rating must update dynamically when new ratings are added.

18. The system must allow the user to write and post comments.
 19. The system must allow the user to reply to existing comments.
 20. The system must allow the user to like comments or replies.
 21. The system must allow the user to report inappropriate comments or replies.
 22. The system must display the user's reading progress percentage for the book.
 23. The reading progress must update dynamically based on user activity.
 24. The system must allow the user to click "Read Now" to open the reading interface.
 25. An AI-generated book summary option must be available.
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AI Comment Moderation

26. The system must analyze all comments and replies using AI moderation before posting.
 27. If flagged with high confidence, the system must block posting and display a warning message.
 28. Only AI-approved content must appear in the comments section.
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Reading Interface (Reader)

29. The system must allow the user to highlight text within the reader.
30. The system must allow the user to play the audiobook version, if available.
31. The system must allow the user to bookmark pages.
32. The system must display bookmark history in a side panel.

33. The system must allow navigation using Next and Previous buttons.
 34. The system must allow users to search for word meanings via a dictionary textbox.
 35. The system must support zoom-in, zoom-out, and reset options.
 36. The system must allow users to add books to cache for offline access.
 37. The system must allow switching between Light, Dark, and Reading modes.
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AI Features

38. The system must allow the user to chat with the AI chatbot.
 39. The system must allow the user to generate images using the AI image generator.
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User Profile

40. The system must allow the user to view their profile details.
 41. The system must allow the user to edit their profile information.
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User Analytics

42. The system must display the total number of books the user has read.
43. The system must display the user's most-read genres.
44. The system must display the user's reading streak.

45. The system must display the “Continue Reading” section.

User Dashboard

46. The user must be able to navigate to the Books Catalogue from the Library menu button.

47. The user must be able to access “Already Read,” “Wishlist,” and “All Books” filters.

48. The “Take Subscription” button must redirect to the Subscription page.

49. The system must allow genre-wise filtering.

50. The user must be able to view trending books.

51. The user must be able to view new releases.

52. The user must be able to explore books outside their preferred genres.

53. The user must be able to view genre-based recommendations.

54. The user must be able to view the highest-rated books.

55. The user must be able to view books available for offline access.

56. The user must be able to navigate to the Contact section.

57. The user must be able to view Terms and Conditions.

58. The user must be able to view Pricing and Refund information.

59. The user must be able to send help/contact messages.

Subscription

60. The system must allow users to switch between monthly and yearly subscription plans.
 61. The Subscription page must display the current plan and available upgrades with details and prices.
 62. The “Get Started” button must initiate the payment flow.
 63. Successful payment must update the user’s active plan in the Profile section.
 64. Successful payment must trigger an email notification to the user.
 65. Successful payment must update revenue statistics in the Admin Dashboard.
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Admin Authentication

66. The system must allow the admin to log in using valid admin credentials.
 67. Successful admin login must redirect to the Admin Dashboard.
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Admin Dashboard and Analytics

68. The admin must be able to view their profile details.
69. The system must display user statistics.
70. The system must display reading statistics.
71. The system must display revenue statistics.
72. The system must display top books and top genres.
73. The admin must be able to view all reported comments and replies.
74. The admin must be able to accept or reject reported items.

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- 75. The admin must be able to view recent activities.
 - 76. The admin must be able to view and respond to help/contact messages.
 - 77. The admin must be able to download statistics as a CSV file.
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Book Management

- 78. The admin must be able to add a new book.
 - 79. The admin must be able to remove an existing book.
 - 80. The admin must be able to edit existing book details.
 - 81. The admin must be able to search for books using a search field.
 - 82. The admin must be able to bulk-upload books.
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Session Management

- 83. The system must allow the user to log out successfully.
 - 84. The system must automatically switch to offline mode when internet connectivity is lost and display cached books.
 - 85. The system must restore online mode automatically when internet is available.
 - 86. The system must support cross-device data syncing for the same user account.
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4. UAT Test Cases

Authentication

1. Verify user can register using email and password
 2. Verify user cannot register with an already registered email
 3. Verify user can register using Google login
 4. Verify user can register using Apple login
 5. Verify user can log in with valid credentials
 6. Verify user cannot log in with invalid credentials
 7. Verify forgot password triggers reset process
 8. Verify successful login redirects to dashboard
 9. Verify successful login sends notification email
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Catalogue & Book Discovery

10. Verify Explore Books page displays all available books
11. Verify user can search books by title
12. Verify user can search books by author
13. Verify user can search books by genre
14. Verify user can apply search filters in catalogue
15. Verify user can open a book details page from catalogue
16. Verify user can view trending books

17. Verify user can view new releases
 18. Verify user can view exploration out of genre
 19. Verify user can view recommendations based on genres
 20. Verify user can view highest rated books
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Book Details Page

21. Verify user can add a book to wishlist
 22. Verify user can mark a book as read
 23. Verify user can rate a book
 24. Verify average rating is displayed for a book
 25. Verify displayed average rating updates after new rating
 26. Verify user can post a comment
 27. Verify user can reply to a comment
 28. Verify user can like a comment or reply
 29. Verify user can report inappropriate comments or replies
 30. Verify reading progress percentage is displayed
 31. Verify reading progress updates on reading activity
 32. Verify user can click Read Now from book details
 33. Verify AI book summary option is available
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AI Comment Moderation

34. Verify system analyzes comments using AI moderation API
 35. Verify flagged comments are blocked with warning
 36. Verify only approved comments appear publicly
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Reading Interface (Reader)

37. Verify user can highlight text
38. Verify audiobook can be played if available
39. Verify user can bookmark a page
40. Verify bookmark history appears in side panel
41. Verify Next button navigates to next page
42. Verify Previous button navigates to previous page
43. Verify dictionary meaning search returns correct result
44. Verify dictionary search handles unknown words
45. Verify zoom in functionality
46. Verify zoom out functionality
47. Verify reset zoom functionality
48. Verify user can add book to cache for offline access
49. Verify user can switch between Light mode
50. Verify user can switch between Dark mode
51. Verify user can switch to Reading mode
52. Verify Read Now button opens reader interface

53. Verify user can navigate to a specific page

AI Features

54. Verify user can chat with the AI chatbot

55. Verify user can generate images using AI generator

User Profile

56. Verify user can view profile details

57. Verify user can edit profile information

User Analytics

58. Verify total number of books read is displayed

59. Verify user's most-read genres are displayed

60. Verify reading streak is displayed

61. Verify Continue Reading section is displayed

62. Verify analytics search functionality

User Dashboard

63. Verify user can navigate to catalogue via Library button

64. Verify user can navigate to Read, Wishlist, and All sections
 65. Verify Take Subscription button redirects to subscription page
 66. Verify user can filter books by genre
 67. Verify user can view offline access section
 68. Verify user can navigate to Contact page
 69. Verify user can view Terms & Conditions
 70. Verify user can view Pricing & Refund information
 71. Verify user can send help/contact message
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Subscription

72. Verify user can switch between monthly and yearly plans
 73. Verify current active plan is displayed
 74. Verify upgrade options and details are displayed
 75. Verify Get Started begins payment flow
 76. Verify successful payment updates active plan
 77. Verify successful payment sends email notification
 78. Verify payment updates revenue stats in admin dashboard
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Admin Authentication

79. Verify admin can log in with valid credentials

80. Verify successful admin login redirects to admin dashboard

Admin Dashboard & Analytics

81. Verify admin can view profile details
 82. Verify user statistics are displayed
 83. Verify reading statistics are displayed
 84. Verify revenue statistics are displayed
 85. Verify top books and genres are displayed
 86. Verify admin can view all reported comments
 87. Verify admin can accept reported items
 88. Verify admin can reject reported items
 89. Verify admin can view recent activities
 90. Verify admin can view and reply to contact/help messages
 91. Verify admin can export statistics CSV
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Admin Book Management

92. Verify admin can add a new book
93. Verify admin can remove an existing book
94. Verify admin can edit book details
95. Verify admin can search for books

96. Verify admin can bulk upload books

Session Management

97. Verify user can log out

98. Verify system automatically switches to offline mode without internet

99. Verify cached books are visible in offline mode

100. Verify system returns to online mode when internet restores

101. Verify cross-device sync works for same account

5. Spreadsheet Report

<https://docs.google.com/spreadsheets/d/1WYS0bEZpfePY6bUztw6fVlIF-BtRG-l1rDsIoPtQLFY/edit?usp=sharing>

6. Failed screenshots

```
{
  "code": 400,
  "error_code": "validation_failed",
  "msg": "Unsupported provider: provider is not enabled"
}
```

Recommended For You

Tap the button to fetch fresh picks based on your recent reading activity.

SHOW PICKS

Failed to fetch

ADAPTIVE LEARNING

Explore New Books

Step outside your usual shelf. These suggestions intentionally hide books you have already started or finished so you can experiment with new genres and authors.

Explore Something New

Failed to fetch

REVENUE

\$

₹0.00

AI BOOK ASSISTANT

■ A Christmas Carol - Page 36 of 202

Current Page Preview



Hey there! I'm here to chat about "A Christmas Carol" with you. Ask me anything about the book, characters, plot, or just share your thoughts!

Generate summary

SEND

www.next-chapter.dev says

Failed to generate image: Failed to fetch

OK



```
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)
```

<input type="text"/>	All 27	Passed 24	Failed 2	Flaky 1	Skipped 0	
Project: chromium	24/11/2025, 23:03:29 Total time: 1.9m					
└ admin/bookManagement/bookManagement.spec.js						
✗ Add book	admin/bookManagement/bookManagement.spec.js:3			View Trace	29.7s	
└ admin/commentManagement/commentManagement.spec.js						
✗ Reviewing Reported Comments	admin/commentManagement/commentManagement.spec.js:3			View Trace	26.6s	
└ ui/reader/reader.spec.js						
⚠ Bookmark page	ui/reader/reader.spec.js:33			View Trace	1.2m	
✓ Read now	ui/reader/reader.spec.js:3				5.3s	
✓ Go to desired page	ui/reader/reader.spec.js:16				7.0s	
✓ Change reading mode	ui/reader/reader.spec.js:51				3.2s	
✓ Play audio book	ui/reader/reader.spec.js:67				5.7s	
✓ Dictionary meaning right word	ui/reader/reader.spec.js:83				3.3s	
✓ Dictionary meaning wrong word	ui/reader/reader.spec.js:100				3.3s	
✓ Chatbox	ui/reader/reader.spec.js:117				3.5s	
✓ Image generation	ui/reader/reader.spec.js:135				3.4s	
└ admin/authentication/adminLogin.spec.js						
✓ Admin login with valid credentials	admin/authentication/adminLogin.spec.js:3				3.6s	

✓ 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), Books management, statistics analysis and visualization 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 Apple login, AI-driven components (chatbot and image generation), post subscription flow trigger actions, AI based recommendations, Email notifications for login and subscriptions. Overall, the platform demonstrates strong stability in end-user workflows, while administrative and AI-based features require further development and testing.