

# **Sprint 2 Report**

CHAPTR - Book tracking platform

Submitted by:  
Fatima Hameed 22k-4656  
Hania Fayyaz 22L-6941  
Ziyad Hisham 22L-6855

## **Product Backlog (All 25)**

1. User Account Creation
2. User Authentication
3. Reading List Addition
4. Reading List Removal
5. Reading Progress Tracking
6. Book Club Creation
7. Book Club Joining
8. Book Club Posting
9. Search for Books by Genre
10. Reading Position Bookmarking
11. Book Reviewing
12. Book Rating
13. Author Following
14. Book Announcement (Author)
15. Update User Accounts
16. Manage My Books
17. Follow Authors
18. See a Calendar of Upcoming Book Releases
19. Follow Other Readers
20. Create Reading Challenges
21. Participate in reading Challenges
22. View Monthly Reports
23. See an Annual Summary of Reading Habits
24. Block Users
25. Add release dates (admin)

## **Sprint backlog**

- Reading Position Bookmarking
- Book Reviewing
- Book Rating
- Set Daily Reading Goals
- Book Announcement (Author)
- Update User Accounts
- Manage My Books
- Follow Authors
- See a Calendar of Upcoming Book Releases

## **Modules:**

- Book Management Module
- User Profile Module
- Author Interaction Module
- Review & Rating Module
- Book Release Calendar Module

## **Technical details:**

### **1. Reading Position Bookmarking**

Backend:

- Model: Bookmark (bookId, userId, page/chapter, timestamp).
- POST /bookmarks (Create bookmark).
- GET /bookmarks?bookId={bookId} (Fetch bookmarks).
- DELETE /bookmarks/:id (Remove bookmark).

Frontend:

- "Bookmark" button in book reader UI.
- Modal to view/manage bookmarks.

Database:

- MongoDB: bookmarks

### **2. Book Reviewing**

Backend:

- Model: Review (reviewId, bookId, userId, content, timestamp).
- POST /reviews (Submit review).
- GET /reviews?bookId={bookId} (Fetch reviews).

Frontend:

- Review form (Rich text editor, validation).
- Display reviews on book pages.

Database:

- MongoDB: reviews (Index: bookId).

### **3. Book Rating**

Backend:

- Model: Rating (ratingId, bookId, userId, stars).
- POST /ratings (Submit rating).
- GET /ratings/average?bookId={bookId} (Calculate avg rating).

Frontend:

- Interactive star-rating component.
- Display average rating on book cards.

Database:

- MongoDB: ratings (Compound index: bookId, userId).

### **4. Set Daily Reading Goals**

Backend:

- Extend User model with dailyGoal (minutes/pages).

Frontend:

- Goal-setting widget (Slider/number input).
- Progress bar (Today vs. goal).

Database:

- MongoDB

## 5. Book Announcement (Author)

Backend:

- Model: Announcement (announcementId, authorId, bookId, message, date).
- POST /announcements (Create announcement, auth: authors only).
- GET /announcements?authorId={authorId} (Fetch announcements).

Frontend:

- Announcement form (Authors only).
- Notifications for followers

Database:

- MongoDB: announcements

## 6. Update User Accounts

Backend:

- Validation: Unique email, password hashing.

Frontend:

- Profile edit form (Image upload, error handling).

Database:

- Update users MongoDB.

## 7. Manage My Books

Backend:

- Extend ReadingList model with status ("Reading"/"Want to Read"/"Read").
- API: /reading-list/:bookId (Update status)

Frontend:

- Status dropdown in reading list.
- Filter by status.

Database:

- MongoDB Reading List

## 8. Follow Authors

Backend:

- Model: Follow (followerId, authorId).
- POST /follow (Follow author).
- GET /follows?userId={userId} (List followed authors).

Frontend:

- "Follow" button on author profiles.
- Feed of author announcements.

Database:

- MongoDB: follows (Index: followerId).

## 9. Calendar of Upcoming Book Releases

Backend:

- Integrate Google Books API or seed books with releaseDate.
- API: GET /books/upcoming?month={month}.

Frontend:

- Calendar view (React Big Calendar).
- Filter by genre/author.

Database:

- MongoDB: books.releaseDate (Indexed).

## User Stories for sprint 3

### 1. Follow Other Readers

User Story: As a reader, I want to follow other readers, so that I can see their activity and book recommendations.

Sub-User Stories:

- As a reader, I want to view a list of readers I follow, so that I can manage my network.
- As a reader, I want to receive notifications when followed readers post reviews, so that I can engage with their content.

### 2. Create Reading Challenges (Admin)

User Story: As an admin, I want to create reading challenges (e.g., "Read 10 books in a month"), so that I can encourage community engagement.

Sub-User Stories:

- As an admin, I want to set challenge deadlines, so that users have a clear timeframe.
- As an admin, I want to assign badges to challenge winners, so that users feel motivated.

### 3. Participate in Reading Challenges

User Story: As a reader, I want to join reading challenges, so that I can track my progress toward goals.

Sub-User Stories:

- As a reader, I want to see my progress in a challenge dashboard, so that I know how close I am to completing it.
- As a reader, I want to receive reminders for ongoing challenges, so that I don't forget to participate.

### 4. View Monthly Reports

User Story: As a reader, I want to view a monthly report of my reading habits, so that I can analyze my progress.

Sub-User Stories:

- As a reader, I want to see stats like books read, pages completed, and genres explored, so that I can identify trends.
- As a reader, I want to compare monthly reports, so that I can track improvements.

## 5. Annual Reading Summary

User Story: As a reader, I want to see an annual summary of my reading habits, so that I can reflect on my yearly progress.

Sub-User Stories:

- As a reader, I want to share my annual summary on social media, so that I can celebrate my achievements.
- As a reader, I want to see my top genres and authors, so that I can discover my preferences.

## 6. Block Users

User Story: As a user, I want to block other users, so that I can avoid unwanted interactions.

Sub-User Stories:

- As a user, I want to view my blocked users list, so that I can unblock them if needed.
- As a user, I want to prevent blocked users from messaging me, so that I feel safe.

## 7. Add Release Dates (Admin)

User Story: As an admin, I want to add release dates for upcoming books, so that readers can anticipate new releases.

Sub-User Stories:

- As an admin, I want to edit or remove release dates, so that I can correct errors.
- As an admin, I want to bulk-upload release dates via CSV, so that I can save time.

## 8. View Challenge Leaderboard

User Story: As a reader, I want to see a leaderboard for active challenges, so that I can compare my progress with others.

Sub-User Stories:

- As a reader, I want to filter leaderboards by friends/all users, so that I can focus on relevant competition.

## 9. Notify Followers About Challenges

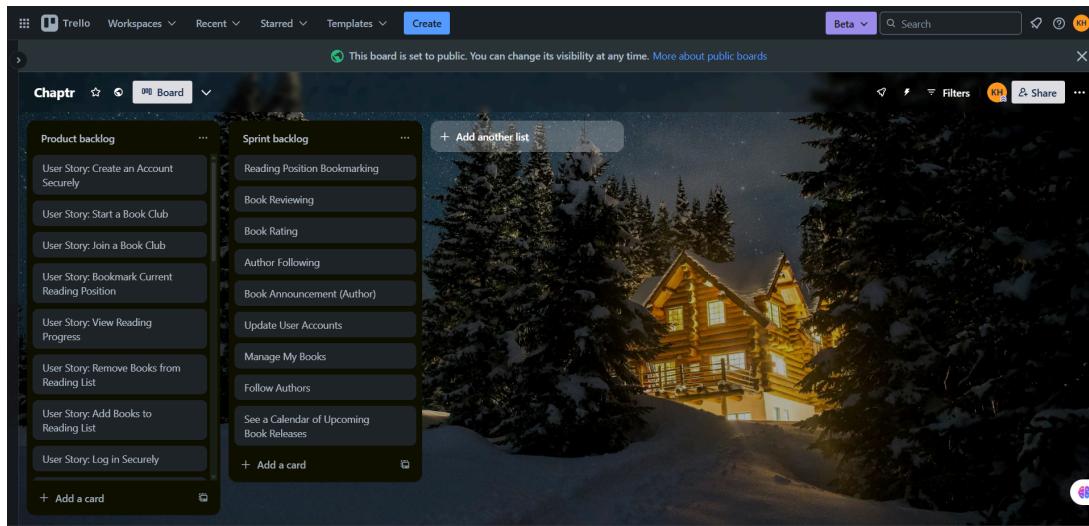
User Story: As an admin, I want to notify followers when new challenges are created, so that participation increases.

Sub-User Stories:

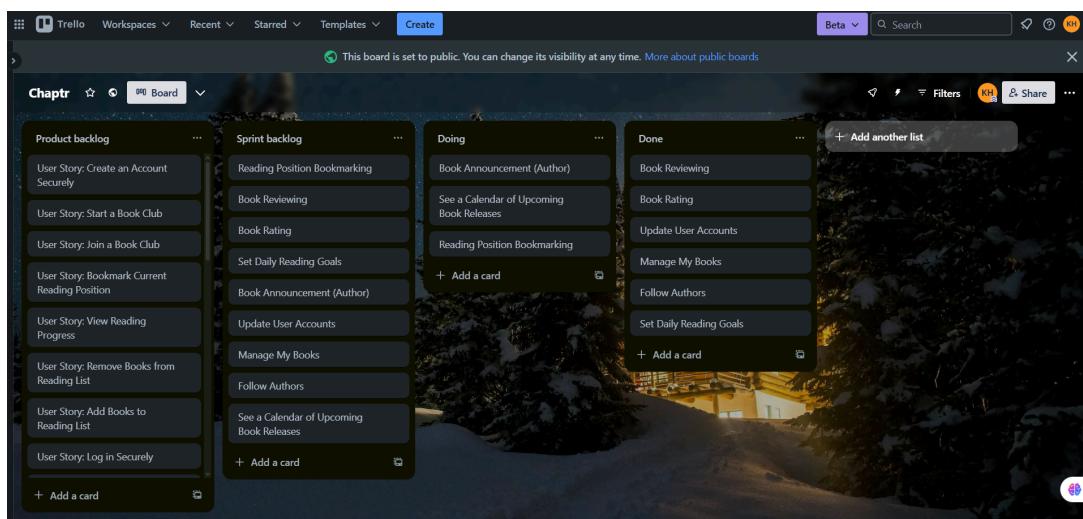
- As a reader, I want to opt out of challenge notifications, so that I avoid spam.

## Trello Boards:

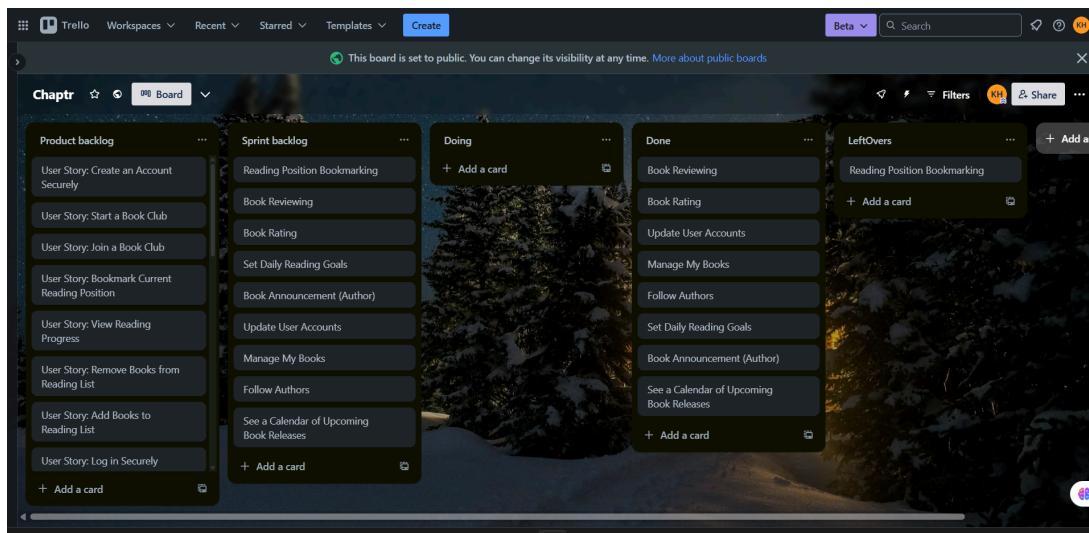
### beginning



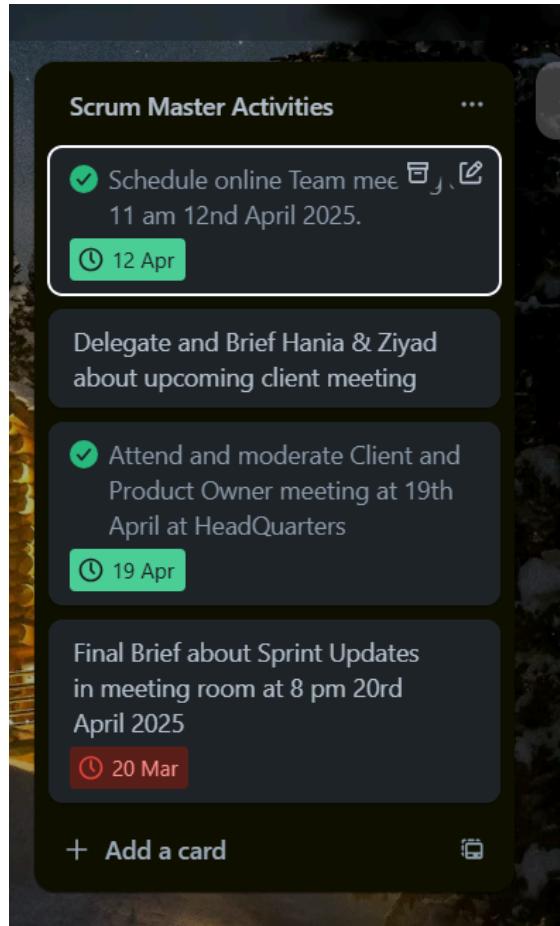
### Middle:



### End:



## SCRUM MASTER ACTIVITIES



## BurnDown Charts:

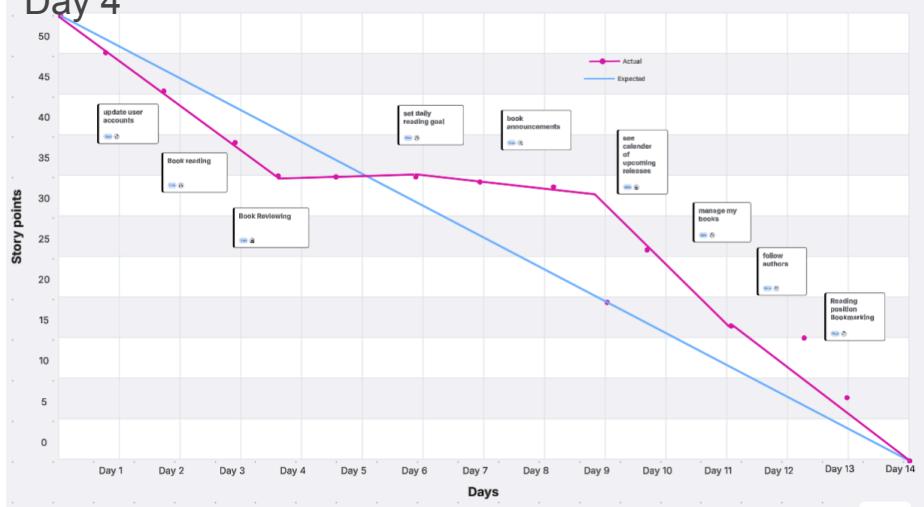
Day 2



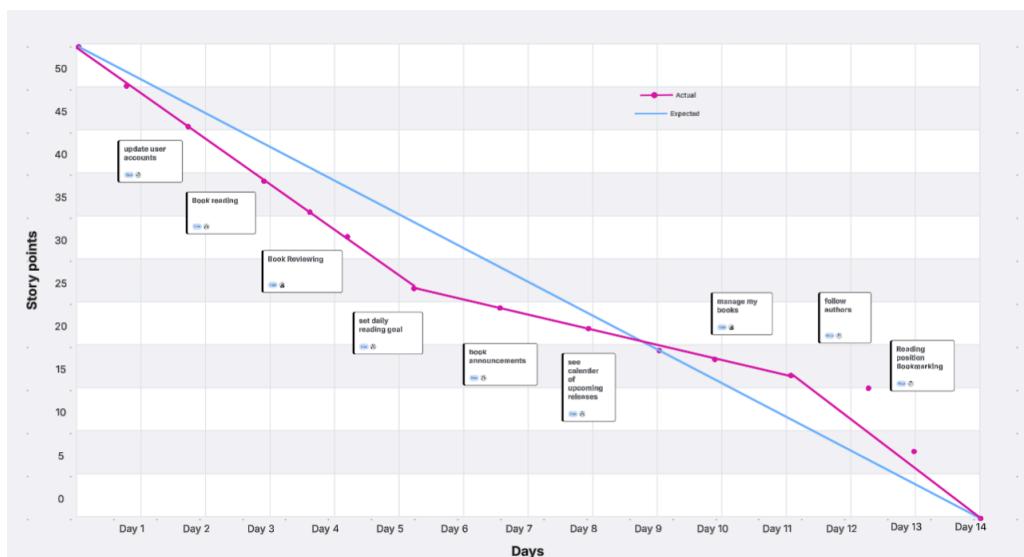
## Day 3



## Day 4



## Day 8



## Day 14



# Weak equivalence class partitioning

## 1. Write Reviews for Books

User Story	Input	Valid Partitions	Invalid Partitions
Write Reviews for Books	User Login Status	Logged in	Not logged in
Write Reviews for Books	Review Content	Valid review (any non-empty text)	Empty review

## 2. Rate Books

User Story	Input	Valid Partitions	Invalid Partitions
Rate Books	Rating	Valid rating (1-5 stars)	Invalid rating (e.g., 0, >5)

## 3. See a Calendar of Upcoming Book Releases

User Story	Input	Valid Partitions	Invalid Partitions
See a Calendar of Upcoming Book Releases	Book Data Availability	Upcoming book data exists	No upcoming book data

## 4. Follow Authors

User Story	Input	Valid Partitions	Invalid Partitions
Follow Authors	User Action	Follow clicked	Follow not clicked
Follow Authors	Author Profile	Valid author profile	Invalid/non-existent profile

## 5. Set Daily Reading Goals

User Story	Input	Valid Partitions	Invalid Partitions
Set Daily Reading Goals	Goal Input	Valid goal (positive integer, e.g., 20 pages)	Invalid goal (e.g., 0, negative), Empty goal

## 6. Update User Accounts

User Story	Input	Valid Partitions	Invalid Partitions

Update User Accounts	UserLogin Status	User logged in	User not logged in
Update User Accounts	User Details	Valid details (e.g., valid email, profile picture, password)	Invalid format (e.g., invalid email), Empty details

## 7. Manage My Books

User Story	Input	Valid Partitions	Invalid Partitions
Manage My Books	Author Login Status	Author logged in	Author not logged in
Manage My Books	Book Details	Valid book details (e.g., title, cover image etc)	Invalid format (e.g., missing required fields), Empty details

## 8. Announce Upcoming Books

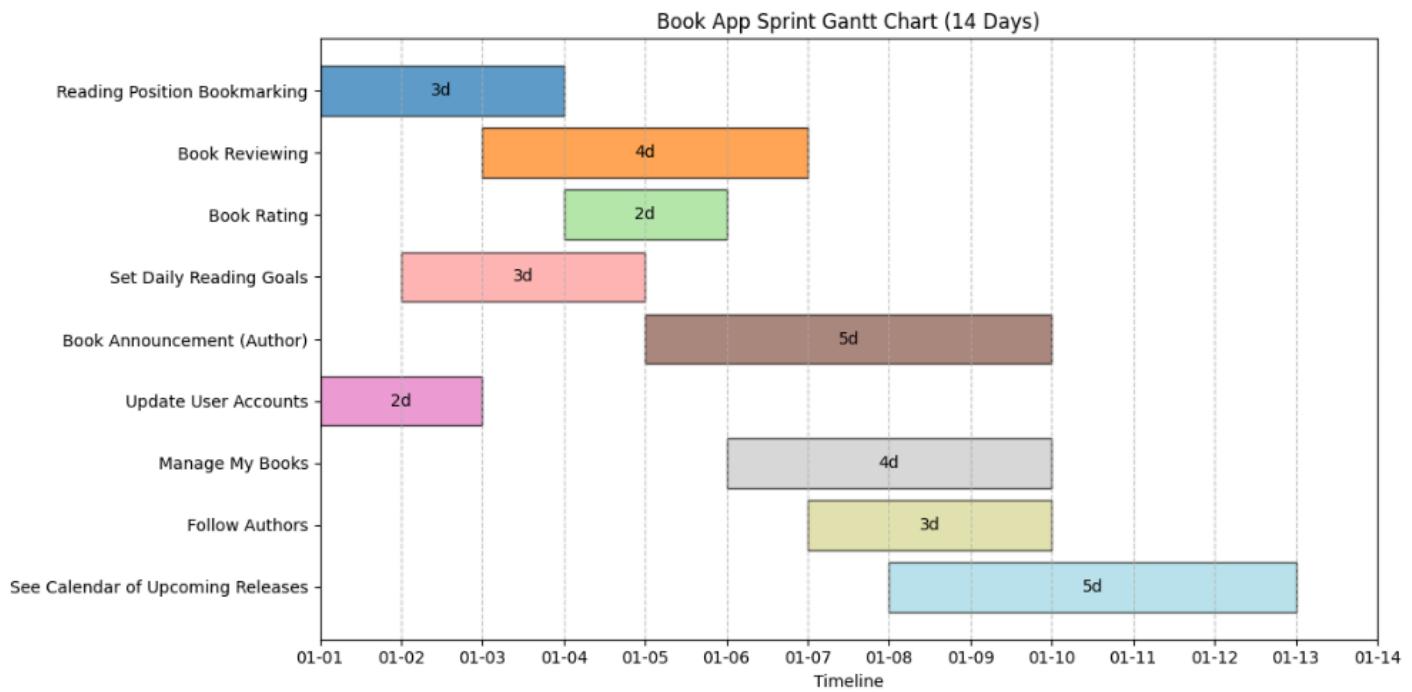
User Story	Input	Valid Partitions	Invalid Partitions
Announce Upcoming Books	Author Login Status	Author logged in	Author not logged in
Announce Upcoming Books	Book Announcement	Valid announcement (e.g., title, future release date)	Invalid format (e.g., past date), Empty announcement

## Number of Test Cases

User Story	Inputs	WECT Test Cases	SECT Test Cases
Write Reviews for Books	Login Status (2), Review Content (2)	4	2×2=4
Rate Books	Reading Status (2), Rating (2)	4	2×2=4
Search for Books by Genre	Genre Input (3)	3	3
See a Calendar of Upcoming Book Releases	Book Data Availability (2)	2	2

Add Release Dates of Upcoming Books	Admin Login Status (2), Book Details (3)	5	$2 \times 3 = 6$
Follow Authors	User Action (2), Author Profile (2)	4	$2 \times 2 = 4$
Set Daily Reading Goals	Goal Input (3)	3	3
Update User Accounts	Admin Login Status (2), User Details (3)	5	$2 \times 3 = 6$
Manage My Books	Author Login Status (2), Book Details (3)	5	$2 \times 3 = 6$
Announce Upcoming Books	Author Login Status (2), Book Announcement (3)	5	$2 \times 3 = 6$

## Gantt Chart



**Github url:** <https://github.com/haniafayyaz/Chaptr>

The screenshot shows a GitHub repository page for a project named "Chaptr". The repository is public. At the top, there are navigation links for "main", "1 Branch", and "0 Tags". A search bar and a "Go to file" button are also present. On the right, there are buttons for "Add file" and "Code". A "Watch" button is located in the top right corner.

A single commit by user "fatimahameed-yay" is listed, which updated the UI. The commit was made 12 hours ago and includes 26 commits. The commit details show changes to ".vscode", "backend", "frontend", "node\_modules", "README.md", "package-lock.json", and "package.json". All changes are listed as "updated UI" and occurred 12 hours ago.

File/Folder	Change	Time
.vscode	updated UI	12 hours ago
backend	updated UI	12 hours ago
frontend	updated UI	12 hours ago
node_modules	updated UI	12 hours ago
README.md	updated UI	12 hours ago
package-lock.json	updated UI	12 hours ago
package.json	updated UI	12 hours ago

# Book App Sprint Project Planner

Sprint Duration: 14 Days

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## 1. Sprint Backlog & Task Breakdown

Task	Start Day	Duration	Dependencies	Completion Criteria
Reading Position Bookmarking	Day 1	3 days	None	Users can save/bookmark reading positions
Book Reviewing	Day 3	4 days	Bookmarking	Review system with text input implemented
Book Rating	Day 4	2 days	Book Reviewing	Star-based rating system functional
Set Daily Reading Goals	Day 2	3 days	None	Users can set and track daily reading targets
Book Announcement (Author)	Day 5	5 days	None	Authors can create book announcements
Update User Accounts	Day 1	2 days	None	Profile editing functionality complete
Manage My Books	Day 6	4 days	Update User Accounts	Users can organize their book collections
Follow Authors	Day 7	3 days	Manage My Books	Follow/unfollow functionality working
Calendar of Upcoming Releases	Day 8	5 days	Book Announcement	Release calendar view implemented

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## 2. Key Milestones

- Day 3: Bookmarking system complete
  - Day 5: Core review/rating system ready
  - Day 7: User account management features done
  - Day 10: Author features (announcements/following) complete
  - Day 14: Sprint review & demo
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### 3. Daily Standup Focus

- Days 1-3: Core systems (Bookmarking, Accounts)
  - Days 4-7: Review features and reading goals
  - Days 8-10: Author-related features
  - Days 11-14: Polish and integration testing
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