# CS 30700: Sprint 1 Planning Document

Team number 4: Sarah Luo, Kaley Kwan, Sam Liu, Eric Park

1 Sprint Overview

During this sprint, we hope to set up the basic foundations of our app that will allow us to start implementing features in the next couple of sprints. By doing so, we will be able to set the foundation for integrating key features in subsequent sprints. To achieve this, our focus will be on tasks such as setting up the development environment, configuring necessary frameworks, and establishing essential backend and frontend components. Completing the tasks in this initial sprint will set the stage for the rest of our entire development process, so we can effectively build upon our application.

**Scrum Master:** Kaley Kwan

**Meeting Plan:** Tuesday 8:00pm and Thursday 10:00am

**Risks and Challenges:**

One challenge for this sprint is acquiring backend servers and testing devices for our application. We need a server in order to store the data that we receive on our application, however, setting up the backend server will cost money which we need from the CS department funding. Specifically, we aim to use Appwrite for our application’s database and authentication. However, in order to integrate this into our app’s functionality, we will need to have the funding to use which we have sent a proposal about. We also need devices to test the reliability and compatibility of our mobile application.

2 Current Sprint Detail

User Story #23 / #25 / #26

As a user, I would like to see a list of books that I have read, am currently reading, did not finish, and want to read.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement a carousel of books to view a list of books | 8 hr | Kaley |
| 2 | Implement tabs allowing user to switch between shelves (read, currently reading, did not finish, want to read) | 5 hr | Kaley |
| 3 | Add unit testing (and other relevant testing) | 2 hr | Kaley |

Acceptance Criteria

* Given that the user is signed in, when the user clicks on the Library page of the app, then they should be able to view the carousel of recommended books.
* Given the user is logged in and on the Library page, when the user swipes through the carousel of books, they should be able to see the books on their “shelves”.
* Given that the user is logged in and on the Library page, when the user clicks on a certain tab i.e. “Want to Read”, the carousel of books should display the books on that specific shelf.

User Story #39

As a user, I would like to view a book’s information page, including its description.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Create UI to view book’s information page (bottom-up modal showing description of book) | 5 hr | Sarah |
| 2 | Create UI to show book reviews (switching between tabs) | 5 hr | Sarah |
| 3 | Add unit testing (and other relevant testing) | 2 hr | Sarah |

Acceptance Criteria

* Given that the user is signed in, when the user clicks on a book, they should be able to view information about that book through a bottom-up modal.
* Given that the user is on a book’s page, when the user clicks on the review section, an overall star rating should be there, and each review should have a corresponding star rating and optional text review.
* Given that the user is on the book’s page, when the user drags the bar at the top of the modal to control its size, the modal should get bigger (up to a point) as the user drags up and get smaller (or eventually disappear) as the user drags down.

User Story #23

As a user, I would like to track books I’ve read so I can see how many books I’ve read over a certain time period.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement “Mark Book as Read” button with a drop-down to add to a different shelf | 3 hr | Sarah |
| 2 | Create a “books read” stat counter | 1 hr | Sarah |
| 3 | Add unit testing (and other relevant testing) | 2 hr | Sarah |

Acceptance Criteria

* Given that the user is signed in, when the user clicks on their shelf, they should be able to see a list of books they have read.
* Given that the user is signed in, when the user clicks on their profile, they should be able to see a counter showing how many books they have read.
* Given that the user is logged in and on a book information page, when the user clicks on the “Mark Book as Read” button, the review modal should automatically appear.
* Given that the user is on a book’s page, when the user clicks on the down chevron next to the “Mark Book as Read” button, they should view a drop-down list of shelves to add the book to.

User Story #3

As a user, I would like to rate books out of five stars (with half and quarter star ratings) so I can remember how much I liked or disliked a book.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Create the star rating component | 2 hr | Kaley |
| 2 | Create book review database structure | 5 hr | Eric |
| 3 | Save star rating to book review | 3 hr | Kaley |
| 4 | Implement “next” button to go to next stage of the review | 2 hr | Sam |
| 5 | Add unit testing (and other relevant testing) | 2 hr | Kaley |

Acceptance Criteria

* Given that the user is signed in, when the user clicks on a book, a star rating portion should show up that the user can tap, then the star rating view should update and show the updated star rating.
* Given that the user has filled out a star rating, when the user clicks the “next” arrow, the page for the next stage of the review (writing a text review) should appear.
* Given that a book has at least one review, when the user clicks on the book, the average star rating should show up.

User Story #40

As a user, I would like to have an easy onboarding process to create an account.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Create UI for sign-in screen | 3 hr | Sarah |
| 2 | Create Toast modal for error messages | 3 hr | Sarah |
| 3 | Add unit testing (and other relevant testing) | 2 hr | Sarah |

Acceptance Criteria

* Given that the app is installed fresh, when the user inputs the correct credentials, then the app should allow them to sign in and drop them in the main page of the app.
* Given that the user is logged out, when the user inputs incorrect credentials, then the app should show an error message saying the credentials were incorrect.
* Given that the user is logged out, when the user signs on with a problematic account, then the app should show the relevant error message (too many sign-in attempts, account suspended, etc.).

User Story #31

As a user, I would like to view a list of recommended books.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement carousel of recommended books | 1 hr | Kaley |
| 2 | Implement tabs allowing user to switch between shelves (recommended, genres i.e fantasy, horror) | 1 hr | Kaley |
| 3 | Set up base server image | 5 hr | Eric |
| 4 | Install and configure Appwrite (and other dependencies) | 5 hr | Eric |
| 5 | Create initial database structure for books | 8 hr | Eric |
| 6 | Connect database of books to UI | 6 hr | Eric |
| 7 | Add unit testing (and other relevant testing) | 2 hr | Eric |

Acceptance Criteria

* Given that the user is signed in, when the user clicks on the Discover page of the app then they should be able to view the carousel of recommended books populated with the latest books from the Google Books API.
* Given that the user is signed in, when the user clicks on the search bar then they should be able to search for a book from the database.
* Given that the API is not reachable, when the user attempts to search then the app should show a relevant error message.
* Given that the server is down, when the user attempts to search then the app should show a relevant error message.

User Story #4

As a user, I would like to write text reviews so I can remember the details of my thoughts on a book.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement textbox where user can write a text review of a book | 3 hr | Kaley |
| 2 | Implement a button to save review | 3 hr | Kaley |
| 3 | Add unit testing (and other relevant testing) | 2 hr | Kaley |

Acceptance Criteria

* Given that the user is on the text review page, when the user clicks on the textbox, the textbox should come into focus and the user should be able to write text in it.
* Given that the user is on the text review page, when the user clicks the “save” button, the review modal should disappear.
* Given that the user is on the text review page, when the user clicks on the "save" button after writing a review, a toast or modal should let the user know that the review was saved (or not).
* Given that the user is on the text review page, when the user writes more text than can be shown in the textbox, the textbox should expand.
* Given that the user is on the text review page and the user has put in text, when the user tries to pull down on the modal, a warning should appear that they could lose their text review

User Story #41

As a user, I would like to view a full list of books on a certain shelf.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement button below book carousel (on either Library or Discover page) to open up a bottom-up modal | 2 hr | Sam |
| 2 | Implement a bottom-up modal to show a full list of books on a shelf | 3 hr | Sam |
| 3 | Implement a search bar to allow the list of books to be searched by title, author, or ISBN | 3 hr | Sam |
| 4 | Add unit testing (and other relevant testing) | 2 hr | Sam |

Acceptance Criteria

* Given that there are books in a shelf, when the user clicks the “more” button, the user should see a bottom-up modal with a vertical list of all the books in a shelf, rather than just the carousel.
* Given that there are books in a shelf and the user chooses to search by title, when the user clicks “more” and searches for a book in the search bar, only the books containing that name should appear in the list.
* Given that there are books in a shelf and the user chooses to search by author, when the user clicks “more” and searches for a book in the search bar, only the books with author names containing the search query should show up.
* Given that there are books in a shelf and the user chooses to search by ISBN, when the user clicks “more” and searches for a book in the search bar, only the books with the exact ISBN should show up.
* Given there are more books in a shelf than can fit in one screen, when the user scrolls, more books should appear.
* Given that the user is on the bottom-up modal screen, when the user drags down on the top, the modal should hide itself.

User Story #42

As a user, I would like to navigate between different pages of the app

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement a navigation bar at the bottom of the app | 2 hr | Sarah |
| 2 | Choose icons for each navigation item | 1 hr | Sarah |
| 3 | Add unit testing (and other relevant testing) | 2 hr | Sarah |

Acceptance Criteria

* Given that the user is signed in, when the main view of the app is loaded then the navigation bar should show up at the bottom.
* Given that the user is signed in, when the user clicks on an item in the navigation bar, then the app should change to the selected item’s screen
* Given that the user is signed in, when the app switches to a different screen, the navigation bar should remain on the bottom.
* Given that the user is signed out, when the app is launched then the navigation bar should not show up.

User Story #49

As a user, I would like to adjust the app settings.

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement a “Sign out” option | 2 hr | Sam |
| 2 | Implement a “Delete account” option | 1 hr | Sam |
| 3 | Implement a “Notifications” screen | 5 hr | Sam |
| 4 | Add unit testing (and other relevant testing) | 2 hr | Sam |

Acceptance Criteria

* Given that the user is signed in, when the user clicks on the “Sign out” option then the app should sign them out.
* Given that the user is signed in, when the user clicks on the “Delete account” option then the app should redirect them to a delete account page (placeholder for now until next sprint).
* Given that the user is signed in, when the user clicks on the “Notifications” option then the app should let them toggle the different notification placeholder options (no notification support yet, placeholder until next sprint)
* Given that the user is signed out, when the user clicks on the app, then the settings page should not be visible.

User Story #28

As a user, I would like to search the entire database of books

| # | Description | Estimated Time | Owner |
| --- | --- | --- | --- |
| 1 | Implement a search bar to allow users to search books by title, author, or ISBN | 2 hr | Sam |
| 2 | Implement the drop-down showing the search results | 4 hr | Sam |
| 3 | Implement being able to filter search results using basic genres | 2 hr | Sam |
| 3 | Add unit testing (and other relevant testing) | 2 hr | Sam |

Acceptance Criteria

* Given the user is on the Library or Discover page, when the user taps on the search bar, the search bar should come into focus and allow the user to type into it.
* Given the user is on the Library or Discover page, when the user types into the search bar, a drop-down list of matching books should appear.
* Given the user has searched something in the search bar, when the user clicks on one of the books in the drop-down list of results, the book’s information should appear in a bottom-up modal
* Given that the user has searched for a book, when the user filters by a certain genre, only books that contain the corresponding genre appear in the list

### Total Hours per Team Member

Kaley: 32 hours

Sarah: 31 hours

Eric: 31 hours

Sam: 32 hours

3 Backlog

Remaining User Stories:

Book tracking/Statistics

1. As a user, I would like to track books I’ve read so I can see how many books I’ve read over a certain time period
   1. As a user, I would like to remove a book from my to-read list
   2. As a user, I would like to edit the status of a book in my list as currently reading
   3. As a user, I would like to edit the status of a book in my list as want-to-read
   4. As a user, I would like to edit the status of a book in my list as completed
   5. As a user, I would like to edit the status of a book in my list as did-not-finish
2. As a user, I would like to be able to privately track books so it will still count towards my stats but other people won’t be able to see it
3. ~~As a user, I would like to rate books out of five stars (with half and quarter star ratings) so I can remember how much I liked or disliked a book~~
   1. As a user, I would like to be able to edit my rating of a book
4. ~~As a user, I would like to review books so I can remember the details of my thoughts on a book~~
   1. ~~As a user, I would like to post my review so others can see my thoughts~~
   2. As a user, I would like to edit my review after posting it
   3. As a user, I would like to mark if my review contains spoilers or not
5. As a user, I would like to track statistics so I can see trends in my reading habits for specific aspects of books
   1. As a user, I would like to track the genres of books I have read
   2. As a user, I would like to track stats that I have created of books I have read
   3. As a user, I would like to see the page count statistics of books I have read
   4. As a user, I would like to track the year of publication of books that I have read
   5. As a user, I would like to track any custom property that I can imagine that is either numerical or categorical
6. As a user, I would like to view private notes about a book
7. As a user, I would like to edit private notes about a book so I can record my thoughts regarding the book without anyone else seeing it
8. As a user, I would like to create my own custom properties (such as “character lovability”, whether this reading session made me emotional, etc.) to track for books so I can track what matters to me specifically. These properties would be either numerical, categorical, or boolean data.
9. As a user, I would like to create different review templates with custom properties so I can customize my reviews depending on the kind of book I read. For example, I could create a “romance novel review template” with properties such as “how many times I cried”

Social

1. As a user, I would like to be able to view other users’ profiles so I can see what other people are reading
   1. As a user, I would like to be able to view other users’ books they are currently reading
   2. As a user, I would like to be able to view other users’ reviews
   3. As a user, I would like to be able to view other users’ books they have already read
2. As a user, I would like to follow other users so I can see what my friends are reading
3. As a user, I would like to follow authors so I can stay up-to-date on their activity
   1. As a user, I would like to see a list of an author’s books on their profile
   2. As a user, I would like to see a list of books an author has read on their profile
4. As a user, I would like to receive notifications about my friends’ activity on Tsundoku so I can stay up-to-date on their reading journeys
5. As a user, I would like to be able to view a marketplace of other people’s review templates so I can get new templates and see what properties people are tracking
6. As a user, I would like to be able to share my own templates to the marketplace so other people can use my templates
7. ~~As a user, I would like to be able to view other users’ book reviews~~
8. As a user, I would like to be able to comment on other users’ book reviews
9. As a user, I would like to be able to upvote other users’ book reviews
10. As a user, I would like to choose who my Tsundoku wrapped can be viewed by within the app
    1. As a user, I would like to make my Tsundoku wrapped private so that only I can view it within the app
    2. As a user, I would like to make my Tsundoku wrapped friends-only so that only the people I choose can view it on my profile
    3. As a user, I would like to make my Tsundoku wrapped public so that anyone on the app can view it on my profile
11. As a user, I would like to export my Tsundoku Wrapped (yearly statistics of my reading behavior) as a photo to share on social media platforms (like Instagram and Snapchat)
12. As a user, I would like to create social reading challenges
    1. As a user, I would like to create friends-only reading challenges so my friends and I can participate in that challenge
    2. As a user, I would like to create public reading challenges so that everybody can participate in the challenge
13. As a user, I would like to create book clubs, or groups of users
    1. As a user, I would like to (re)name a book club that I create or am a part of
    2. As a user, I would like to view the book clubs that I am a part of
    3. As a user, I would like to invite users to join my book club
    4. As a user, I would like to view a forum with posts from users in the book club
    5. As a user, I would like to comment on posts within a book club forum
    6. As a user, I would like to view comments on posts in a book club forum
    7. As a user, I would like to create reading challenges for a book club, where everyone in the book club is automatically participating in the reading challenge
    8. As a user, I would like to view the book a book club is currently reading
    9. As a user, I would like to view the dates that we are reading a book for

Other features

1. ~~As a user, I would like to see a list of books that I have read~~
2. As a user, I would like to see a list of books I have privately marked as read
3. ~~As a user, I would like to see a list of books I did not finish~~
4. ~~As a user, I would like to see a list of books I am currently reading~~
5. As a user, I would like to see a yearly compilation of my data so I can see overarching trends and an analysis of my books and reading behaviors
   1. As a user, I would like to see my most-read genre of the year
   2. As a user, I would like to see my most-read author of the year
   3. As a user, I would like to see the month I read the most books in a year
   4. As a user, I would like to see the day that I read the most pages in a year
   5. As a user, I would like to see a graphical display of my custom properties such as “how many times I cried reading” in the year
   6. As a user, I would like to see a visual graph display (bar chart) of the number of books I read each month in the year
6. ~~As a user, I would like to be able to search for books so I can easily and quickly find a book that I read or want to read~~
   1. As a user, I would like to be able to search for books listed on the Google Books API
   2. As a user, I would like to be able to search for books listed on the Open Books API
7. As a user, I would like to be able to add a book that is not available in the databases listed above
8. ~~As a user, I would like to be able to filter a search so I can more easily find books with specific search parameters~~
   1. ~~As a user, I would like to be able to filter books by genre~~
   2. As a user, I would like to be able to filter books by release date (most recent)
   3. As a user, I would like to be able to filter books by highest average rating
9. ~~As a user, I would like to view book recommendations based on my reading habits and preferences so I can find new books that I love~~
10. As a user, I would like to update my reading preferences
    1. As a user, I would like to update my genre preferences
    2. As a user, I would like to update my book length preferences
11. As a user, I would like to import my data from other book cataloging apps such as Goodreads so I don’t lose all my old data
    1. As a user, I would like my book reviews to be imported from other book cataloging apps.
12. As a user, I would like to receive notifications
    1. As a user, I would like to keep up to date with my friends’ reading statuses
    2. As a user, I would like to see when an author I follow has a new book
    3. As a user, I would like to keep up with new features
13. As a user, I would like to create private reading challenges such as a monthly reading challenge so I can set and meet smaller goals than just a yearly reading goal
14. As a user, I would like to export my data from Tsundoku to other book cataloging apps so that I don’t feel locked into Tsundoku, and have the peace-of-mind that my data is mine to keep, at any time.
15. As a user, I would like to change the visibility of my followers list
    1. As a user, I would like to make my followers list private
    2. As a user, I would like to make my followers list friends-only
    3. As a user, I would like to make my followers list public
16. As a user, I would like to change the visibility of my following list
    1. As a user, I would like to make my following list private
    2. As a user, I would like to make my following list friends-only
    3. As a user, I would like to make my following list public
17. ~~As a user, I would like to view a book’s information page, including its description~~
18. ~~As a user, I would like to have an easy onboarding process to create an account~~
19. ~~As a user, I would like to view a full list of books on a certain shelf.~~
20. ~~As a user, I would like to navigate between different pages of the app.~~

Settings

1. As a user, I would like to change my username
2. As a user, I would like to view my username and email
3. As a user, I would like to edit my email
4. As a user, I would like to set up my profile
   1. As a user, I would like to write in an “about me” section
   2. As a user, I would like to control the visibility of my profile so that
      1. Private (nobody can see my profile)
      2. only my friends can see my profile
      3. any Tsundoku member
      4. public (indexable by search engines)
   3. As a user, I would like to link to various social links (such as Facebook, Mastodon, etc.)
5. As a user, I would like the option to export my data
6. As a user, I would like the option to change the default language from English to
   1. Korean
   2. Chinese
7. ~~As a user, I would like to adjust the app settings.~~
   1. ~~As a user, I would like the option to delete my account (usernames cannot be reused to prevent abuse)~~
8. As a user, I would like the option to change my notification preferences
   1. As a user, I would like to turn off notifications for new books by authors I follow
   2. As a user, I would like to turn off notifications when I get a new follower
   3. As a user, I would like to receive notifications via email
   4. As a user, I would like to receive notifications via push notifications
   5. As a user, I would like to edit the notification categories that I receive