

BookNet

Sprint 1 Planning Document

Team 13: Matt Hedge, Vitalii Kovtounenko, Glen Eder, Brandon Wu

Sprint Overview

During this first sprint, we hope to set up our database and backend systems. This will require a great deal of research into our selected platforms and environments. We also want to have a clean and working login page and account creation page. All the common features found on these pages such as a forgot password button and email verification should be fully functional. We also want to have an intuitive user interface set up for user profile pages. Users should be able to change parts of their profile including their bio, profile picture and password.

Scrum Master:

Brandon Wu

Meeting Plan:

Tuesdays 3:00PM, Sundays 3:00PM

Risks and Challenges

The first challenge we will face is the fact that we are unfamiliar with our selected platforms and environments (ReactJS, NodeJS and Firebase) and have not worked with them before. This will result in us spending a decent amount of hours doing research and experimentation instead of getting started immediately on components for the BookNet web application. Another challenge will be correctly estimating the time it takes to perform each task. We risk underestimating time for task completion, which could potentially result in rushing some work or having work left over to be completed in Sprint 2.

Current Sprint Details

User Story #1

As a user I would like to create an account on BookNet.

Task #	Description	Estimated Time	Person Responsible
1	Connect the server to the database and connect to the front end to the server.	5 hours total	Brandon Wu
2	Create UI for user to input data	2 hours total	Brandon Wu
3	Create an algorithm to obtain information from the user and write information into a database.	5 hours total	Brandon Wu
4	Connect algorithm to UI	3 hours total	Brandon Wu
5	Test algorithm for proper functionality. Test if the UI works properly and does the required actions. Check in the database if the user was created properly and that all information matches.	1 hour total	Brandon Wu

Acceptance Criteria:

- Given the account creation page is implemented correctly, when the user visits the account creation page, the user should be able to input their:
 - a) First name
 - b) Last name
 - c) Email
 - d) Password
- Given the account creation page is implemented correctly, when the user visits the account creation page, the user should have to input their password twice for verification purposes.
- Given the account creation page is implemented correctly, when the user visits the account creation page, there should be a clickable "create account" button.

- Given the account creation page is implemented correctly, when the user visits the account creation page, there should be an error message when:
 - a) Any field is left empty
 - b) Password is under 6 characters
- Given the account creation page is implemented correctly, when the user visits the account creation page, the email field should be pre-populated with "@purdue.edu".
- Given the account creation page is implemented correctly, when the user successfully created an account, the database should be updated with the new user's data.

User Story #2

As a user I would like to delete an account on BookNet.

Task #	Description	Estimated Time	Person Responsible
1	Create UI for users to verify their identity.	2 hours	Vitalii Kovtounenko
2	Create an algorithm to authenticate a user with their password.	3 hours	Vitalii Kovtounenko
3	Verify his/her identity for deletion. This will require a verification email.	2 hours	Vitalii Kovtounenko
4	Once identity is verified delete user information from database	1 hour	Vitalii Kovtounenko
5	Connect algorithm to UI	3 hours	Vitalii Kovtounenko
6	Test algorithm functionality. Test the UI and all the buttons do their job. After the user was deleted check the database to see if the user still exists. Test if this user is prompted for account creation after deletion.	3 hours total	Vitalii Kovtounenko

Acceptance Criteria:

- Given the account deletion page is implemented correctly, when the user visits the page, there should be a clickable "Delete account" button.
- Given the account deletion page is implemented correctly, when the user clicks "Delete account," there should be a warning asking "Are you sure you want to delete your account?" with options: "OK" or "cancel".

- Given the account creation page is implemented correctly, when the user answers “OK” to the warning, the account should be deleted and the user should be sent to the landing page.

User Story #3

As a user, I would like to log in to my account on BookNet.

Task #	Description	Estimated Time	Person Responsible
1	Create login UI	2 hours	Brandon Wu
2	Implement algorithm used for password verification to log user in.	3 hours	Brandon Wu
3	Connect algorithm to UI.	4 hours	Brandon Wu
4	Display error messages for failed login	15 min	Brandon Wu
5	Test for proper algorithm functionality. Test that when user arrives at the page, there is a place for the user to input password and email. Test when the user clicks the “Login” button, a success message will pop up and user redirected to user homepage.	3 hours	Brandon Wu

- Given the sign in page is implemented correctly, when the user visits the login page, there are fields to input password and email.
- Given the sign in page is implemented correctly, when the user inputs their password and email, then there is a button for the user to click to verify account information.
- Given that the user has an account, when the user inputs the correct information and clicks “Login”, then the user will be taken to the user’s homepage.
- Given the database algorithm is implemented correctly, when the user does not have an account or incorrectly types in password or email and clicks the “Login” button, the user will see an error message.

User Story #4

As a user I would like to log out of my account on BookNet.

Task #	Description	Estimated Time	Person Responsible
1	Implement a button in the homepage for logging out.	1 hours	Brandon Wu
2	Create an algorithm that will save users data and end users' session.	4 hours	Brandon Wu
3	Connect algorithm to UI.	3 hours	Brandon Wu
4	Test algorithm functionality. Test that users' session is terminated when the user clicks on the logout button. Test if the user is redirected back to login page after clicking on logout button	3 hours	Brandon Wu

Acceptance Criteria:

- Given the UI is created correctly, when the user is ready to logout of BookNet, there is a button available for the user to click to end the session.
- Given the database algorithm is implemented correctly, when the user has verified that user wants to logout, the user session will end and the site will return to the landing page.

User Story #5

As a user I would like to recover a forgotten BookNet account password.

Task #	Description	Estimated Time	Person Responsible
1	In the log in page create	0.5 hour	Glen Eder

	"forgot password" button		
2	Create UI for password recovery page	2 hours	Glen Eder
3	Create UI for update password page	1 hour	Glen Eder
4	Modify the deletion algorithm that will send the user an email. It will contain a one time url that the user will use to verify their identity and change their password.	2 hours	Matt Hedge
5	Update database with new user password	0.5 hour	Matt Hedge
6	Connect algorithm to UI	4 hours total	Matt Hedge
7	Test algorithm. Test if the "forgot password" button has the desired functionality. Test that an email is sent to the user with one time code. Test if the user is able to change password once one time code is verified.	3 hours	Matt Hedge

Acceptance Criteria:

- Given the UI is created correctly, when the user clicks forgot password button, then the user will be taken to a password recovery window prompting the user to input user email address.
- Given the password recovery page is functioning correctly, when the user inputs user email and clicks the "Send Email" button, then the user will be given feedback on whether an email has successfully been sent to the email address.
- Given the database algorithm is implemented correctly, the user provided email address will be checked against database email records to verify there is an account with that email address and an email will be sent to the provided email.
- Given the link sent to the user email is functioning correctly, when the user clicks the email link, then the user will be taken to the update password page and prompted to enter a new password.

- Given the user has input information, when the user clicks the “Submit” button, then the user will receive confirmation of successful password reset or will be prompted to update one of the fields on the update password page and resubmit.
- Given the database algorithm has updated correctly, the user will be able to login with new password information.

User Story #6

As a user I would like to change my BookNet account's password.

Task #	Description	Estimated Time	Person Responsible
1	In the users' profile page create a button “change password”.	1.5 hours	Vitalii Kovtounenko
2	Create a form that will accept users' new password, and verify password.	1.5 hours	Vitalii Kovtounenko
3	Create an algorithm that will override existing password with new password	0.5 hours	Vitalii Kovtounenko
4	Connect algorithm to UI. If success displays a success message. If fail, display error message	4 hours	Vitalii Kovtounenko
5	Test algorithm. Test when a user inputs a password it must meet requirements to update. Test that if the user new password and verify password don't match. Test that when user resets password correctly, the database password for the user is updated	2 hours	Vitalii Kovtounenko

Acceptance Criteria:

- Given that the “change password” function is implemented correctly, when the user visits their profile page, there should be a clickable “change password” button.
- Given that the “change password” function is implemented correctly, when the user visits their profile page, there should be fields to enter current password, new password and verify new password.
- Given that the “change password” function is implemented correctly, when the user clicks the “change password” button, there should be an error when:
 - a) The “current password” inputted by the user does not match the password associated with their account in the database.
 - b) The “new password” inputted by the user has less than 6 characters.
 - c) The password entered by the user in the “verify new password” field does not match the “new password” entered by the user.
- Given that the “change password” function is implemented correctly, when the user verifies the password change, the user’s password should be updated in the database.

User Story #7

As a user I would like to add/edit a profile picture on my BookNet profile.

Task #	Description	Estimated Time	Person Responsible
1	Create a button in the profile page to add/update profile picture.	1 hour	Matt Hedge
2	Set up online file storage system to store user pictures	3 hours	Matt Hedge
3	When the button is clicked, display users’ disk directories and availability to choose files	3 hours	Matt Hedge
4	Connect algorithm to UI	4 hours	Matt Hedge
5	Test if the user can access the disk and grab the photo. Test if the photo was properly	3 hours	Matt Hedge

	uploaded. Test if the photo exists in the users' profile.		
--	---	--	--

Acceptance Criteria:

- Given that the profile picture function is implemented correctly, when the user visits their profile, they should see their current profile picture .
- Given that the profile picture function is implemented correctly, when the user visits their profile, there should be a clickable button labeled “edit profile picture”.
- Given that the profile picture function is implemented correctly, when the user clicks the “edit profile picture” button, a popup window should appear, allowing the user to select a picture from their computer’s directories.
- Given that the profile picture function is implemented correctly, when the user uploads an image, the profile page should be updated with the new picture.

User Story #8

As a user I would like to change my BookNet email address.

Task #	Description	Estimated Time	Person Responsible
1	Create a button in the profile page to change user email address	15 mins	Glen Eder
2	When the forms are filled and Submit is clicked, send the user a verification email.	2 hours	Glen Eder
4	When the url in the verification email is clicked, update the user's email in the database.	2 hours	Glen Eder
5	Connect algorithm to UI	1 hours	Glen Eder
6	Test if verification email is sent to the correct address. Test if the email is actually updated in the	15 mins	Glen Eder

	database by logging in with the new email.		
--	--	--	--

Acceptance Criteria:

- Given that the change email function is implemented correctly, when the user submits their new email, a verification email should be sent to said email address.
- Given that the change email function is implemented correctly, when the user receives the email they should see a url for setting up their new email in the database.
- Given that the change email function is implemented correctly, when the user updates their email, they should be able to login with the new email address.

User Story #9

As a user I would like to change my first and last name on BookNet.

Task #	Description	Estimated Time	Person Responsible
1	Create a button in the profile page to change user first and last name	15 mins	Brandon Wu
2	When the forms are filled and Submit is clicked, do proper regex checking and give errors for invalid names	1 hours	Brandon Wu
4	When the submission button is clicked, update the user's name in the database	1 hours	Brandon Wu
5	Connect algorithm to UI	30 mins	Brandon Wu
6	Test different name combinations such as null, with special characters, with numbers etc. Verify user's first and last name fields are updated in the database.	15 mins	Brandon Wu

Acceptance Criteria:

- Given that the change name function is implemented correctly, when the user inputs nothing and clicks submit, there will be a popup error message.
- Given that the change name function is implemented correctly, when the user inputs a name with special characters or numbers in it, there will be a popup error message.
- Given that the change name function is implemented correctly, when the user inputs a name with less than 2 letters in it, there will be a popup error message.
- Given that the change name function is implemented correctly, when the user inputs a valid name, the user's new name will be updated in the database.

Functional Requirements

1. ~~User Account~~

As a user,

- ~~a. I would like to create an account on BookNet~~
- ~~b. I would like to delete my account~~
- ~~c. I would like to log in to my account.~~
- ~~d. I would like to log out of my account~~
- ~~e. I would like to add to my user profile.~~
- ~~f. I would like to add a profile picture~~
- ~~g. I would like to edit a profile picture~~
- ~~h. I would like to add a bio to my profile~~
- ~~i. I would like to edit my profile info~~
- ~~j. I would like to set and change my account password~~
- ~~k. I would like to recover a forgotten password~~

2. Book Searching

As a user,

- a. I would like to input what book(s) I need
- b. I would like to search for a book by its title
- c. I would like to search for a book by its author
- d. I would like to search for a book by its ISBN
- e. I would like to search for books for sale
- f. I would like to search for books for donation

3. Book Trading

As a user,

- a. I would like to input what book(s) I have available for trade
- b. I would like to see a history of my previous book trades
- c. I would like to see with whom I previously traded

- d. I would like to be matched with other users that have the book I need
- e. I would like to specify trading location
- f. I would like to accept a trade
- g. I would like to reject a trade
- h. I would like to be able to cancel a trade
- i. I would like to see who my potential trading partners are

4. Book Purchasing

As a user.

- a. I would like to purchase a book at the cheapest price if trading is not an option
- b. I would like to know where the nearest bookstore with the book I am looking for is located

5. Rating

As a user.

- a. I would like to input the condition of the book I am giving away
- b. I would like to be able to rate the condition of the book I received in a trade
- c. I would like to be able to see other users' book condition ratings

6. Notifications

As a user.

- a. I would like to receive a notification on BookNet's website when a trade is available
- b. I would like to receive an email notification when a trade is available

7. Study Groups (If time allows)

As a student.

- a. I would like to be able to create a study group for one of my classes
- b. I would like to enter study groups with students taking the same classes
- c. I would like to chat with other members of my study group