Sprint 1 Planning Document

BoilerDate

Team Members: Youngjun Yoo, Chaewon Lee, Jeongbin Lee, Hosung Ryu

Sprint Overview

During this sprint, we plan to set up the initial development environment for the frontend and backend for all team members to standardize the development process. We will also set up the basic version control system in the repository and create a basic project structure. This includes installing necessary tools and dependencies using NPM. For the frontend, we plan to implement a well-structured UI with initial placeholder components. For the backend, we plan to connect our database with the backend and deploy a basic local host server with placeholder routes and API endpoints.

Scrum Master: Youngjun Yoo

Meeting Plan: Monday/Friday @ 2:30 pm

Risks and Challenges:

Since most of us do not have much experience in web development, learning the technologies and frameworks for both frontend and backend might take more time than expected. Moreover, there could be challenges in managing dependencies and ensuring compatibility between different libraries and frameworks. Hence, it is important for us to proactively learn new technologies by allocating extra time for learning from online resources and official documentation. Also, styling and designing the user interface appropriately with CSS can take time and effort. Lastly, meeting up with deadlines can be difficult because our estimated time may change due to unforeseen events.

Current Sprint Detail

*Estimated Time in hrs

User story #1:

As a user, I would like to create a BoilerDate account using my Purdue email, name, gender, and age.

#	Description	Estimated Time	Owner
1	Create a landing page and UI panel to choose to log in or sign up	2	Youngjun
2	Create a sign-up page and UI panel to input user information and password	2	Youngjun
3	Check that user information and password meet the requirements	2	Chaewon
4	Create the database with a user ID and passwords fields	2	Youngjun
5	Store user information in the database	1	Youngjun
6	Debug and manually test account creation	5	Chaewon

Acceptance Criteria:
- Given that the landing page is properly implemented, when the user opens up the website, the landing page will display a UI panel to choose to log in or sign up.
- Given that the sign-up page is properly implemented, when the user clicks sign-up from the landing page, the UI panel to input user information will be displayed.
- Given that the input verification is properly implemented, when the user tries to input invalid text or selection that does not meet the app's requirements, it will require the user to re-enter.
- Given that the integration with the database is properly implemented, when the user tries to create an account with an already existing email in the database, the user will receive an error.

- Manual testing:
    - If the user's email does not contain "@purdue.edu" then the email is not valid and the user cannot create an account.
    - When a user tries to make an account with an already existing email, pop up an error on the frontend and verify that the database doesn't store duplicate data.
    - If the user inputs their name, gender, and age, that information will be stored in the database.
    - If the password is not more than 8 characters and does not include at least one uppercase letter, one lowercase letter, one number, and one special character, then the password is not valid and the user cannot create an account.
    - When a user creates an account, the information (email, password, user ID) will be stored in the database.

User story #2:

As a user, I would like to be able to see and agree to the rules and safety guidelines so that I know some expectations before creating an account.

#	Description	Estimated Time	Owner
1	Create rules and safety guidelines for using the application	2	Jeongbin
2	Create a UI panel to view the guidelines and provide an agreement	2	Jeongbin
3	Debug and manually test if the user can provide agreement	4	Jeongbin

Acceptance Criteria:
- Given that the rules and safety guidelines are properly written, when the user reads them, the user should understand what responsibilities and rights one has and needs to follow.

- Given that the UI panel is properly implemented, when the user tries to access the rules and safety guidelines, the entire document will be displayed.
- Given that the functionality of page redirection is properly implemented, when the user clicks the "agree" button, the user will be able to proceed to the next step of account signup.
- Manual testing:
    - When the user clicks "sign up" after inputting all information, a page with the rules and safety guidelines will pop up.
    - If the user does not check the box to agree to the rules and safety guidelines, the user cannot create an account.

User story #3:

As a user, I would like all users to authenticate their Purdue email when creating an account so that I can trust that all accounts are made by Purdue students.

#	Description	Estimated Time	Owner
1	Send the verification code to the user's Purdue email address (may take more time to conduct research than other implementations)	8	Hosung
2	Receives and verifies that the code is from the user's Purdue email	6	Youngjun
3	Create a UI panel for the user to enter the verification code with a resend code button	2	Youngjun
4	Create an algorithm to search for the user's Purdue email address in the Purdue directory	8	Youngjun
5	Debug and manually test email verification	5	Hosung

Acceptance Criteria:
- Given that the functionality of sending a verification code to the user's Purdue email address is properly implemented, when the user enters their email while creating their account, they will receive a verification code within a short period.

- Given that the code verification algorithm functions properly, when the user enters the verification code into the web page, the application will be able to verify the user's email address.
- Given that the user search algorithm functions properly, when the user enters their email, the algorithm will be able to parse through the user's email address in the Purdue directory web page and display the correct result indicating search status.
- Manual testing
  - When the user creates an account and enters their Purdue email, they will receive a verification code in the email they inputted.
  - When the user enters the verification code in the verification page, they will be able to proceed to the next step of account creation if the code is valid.
  - When the user does not have a valid verification code for any reason, they will be able to choose the option to resend the code to the inputted email address.
  - If the verification code is not valid, there will be no changes made in the database.

User story #4:

As a user, I would like to upload and show my photos for my profile.

#	Description	Estimated Time	Owner
1	Create a page and UI panel for photo upload within the profile page	2	Jeongbin
2	Store user photo in the cloud	2	Jeongbin
3	Store respective photo URLs in the database	2	Jeongbin
3	Debug and manually test if the user photo is successfully submitted and displayed	3	Hosung

Acceptance Criteria:

- Given that the page and UI panel to upload a user photo are properly implemented, when the user clicks "Upload", the user should be able to browse their device and submit a photo.
- Given that the link to the database is properly established, when the user submits a photo, it will be stored in the database.
- Given that the photo submission process is properly implemented, when the user is done with submitting a photo, the page will display a message that indicates whether the submission was successful or not.
- Manual testing:
    - Once the photo is uploaded, the user should be able to see the updated photo when the user returns back to the profile page.
    - When the user uploads the photo, the photo will be stored in the cloud storage while the photo URL will be stored in the database.

User story #5:

As a user, I would like to set up and display my profile using predefined tags.
  a. As a user, I would like to choose and display my traits such as height, gender, and age.
  b. As a user, I would like to choose my academic and educational information such as GPA, major, and degree type.
  c. As a user, I would like to choose and display my interests and hobbies for my profile.
  d. As a user, I would like to choose and display my relationship goals for my profile.
  e. As a user, I would like to choose and display my personality type for my profile.
  f. As a user, I would like to select my lifestyle and show it on my profile.
  g. As a user, I would like to choose and display my citizenship status for my profile.

#	Description	Estimated Time	Owner
1	Create a list of pages to choose from for each category (a - g) within the profile page	2	Chaewon
2	Create a page for each category (a - g) with all possible options of predefined tags	3	Chaewon

#	Description	Estimated Time	Owner
3	Store user's choices in the database	2	Chaewon
4	Debug and manually test if the user can successfully select 0, 1, or multiple predefined tags	4	Chaewon

Acceptance Criteria:

- Given that a page to choose options is created for each predefined tag, when the user chooses a page that is listed within the profile page, the application will display a page for the corresponding predefined tags with all possible options.
- Given that the user can see all possible options for a predefined tag on a chosen category page, when the user chooses 0, 1, or multiple tags, the application will save changes to the user profile.
- Given that a user's choices are saved to their profile, when the user chooses a page that is listed within the profile page again, their previous choices will be displayed.
- Manual testing:
    - When the user clicks on their profile page, they will be able to see a category for each predefined tag.
    - Once the page of a category is loaded, the user should be able to 0, 1, or multiple tags (depending on the category), and the change must be reflected in the user's profile page and the database.

User story #6:

As a user, I would like to set up and display my profile using customized tags.
   a. As a user, I would like to choose my career information such as career goals and employment history.
   b. As a user, I would like to choose and display my skills for my profile.
   c. As a user, I would like to display my LinkedIn profile and/or GitHub username.

#	Description	Estimated Time	Owner
1	Create a list of pages to choose from for each	2	Hosung

	category (a-c) within the profile page		
2	Create a page for each category (a-c) where users can input custom tags	3	Hosung
3	Create a character limit (30) for each custom tag	1	Hosung
4	Store user's customized tags in the database	2	Youngjun
5	Debug and manually test if the user can successfully provide and submit 0,1, or multiple customized tags	4	Hosung

Acceptance Criteria:
- Given that a page to choose options is created for each customizable tag, when the user chooses a page that is listed within the profile page, the application will display a page for the corresponding customizable tag.
- Given that the user can input custom tags for a chosen category page, when the user chooses to input 0, 1, or multiple tags, the application will save changes to the user profile.
- Given that the character limit for the custom tags is properly implemented, when the user exceeds the character limit (30 characters) for each tag, the application will limit the user from inputting more characters.
- Given that a user's choices are saved to their profile, when the user chooses a page that is listed within the profile page again, their previous choices will be displayed.
- Manual testing:
    - When the user clicks on their profile page, they will be able to see a category for each customizable tag.
    - When the user exceeds the character limit (30 characters) for a custom tag, the user will not be able to input more characters.
    - Once all the custom tags are completed, the change must be reflected in the user's profile page and the database.

User story #7:

As a user, I would like to log in and manage my BoilerDate account.

#	Description	Estimated Time	Owner
1	Create a login page and UI to provide login credentials	2	Jeongbin
2	Create a query to check if the user account exists in the database	2	Jeongbin
3	Create an algorithm to determine the type of error message (incorrect email vs. incorrect password)	1	Youngjun
4	Create a login attempt limit (if the user fails to enter correct password after 5 attempts, redirect to forgot password page)	2	Jeongbin
5	Create a settings page for the user to change their account information	2	Jeongbin
6	Create a change password page where the user can update their password	2	Youngjun
7	Debug and manually test login functionality and access the state of the user account after the change is made	4	Jeongbin

Acceptance Criteria:
- Given that the UI for the login page is implemented correctly, when the user attempts to input their login details, they should be able to do so in the respective input fields for the username and the password.
- Given that the query to check if the user account details are stored in the database is implemented correctly, when the user clicks the login button, the application should be able to verify the user and make a transition to the main page.
- Given that the login attempt limit is implemented correctly, when the user fails to login after 5 attempts, the user will be redirected to the forgot password page.

- Given that the UI for the settings page is implemented correctly, when the user opens the settings page, the page will display their current user account information.
- Manual testing:
    - When the user clicks the login button on the landing page, they will be redirected to the login page.
    - If the user attempts to login with an invalid email or password, they will receive an error message.
    - If the user attempts to login with a valid email but incorrect password 5 times, they will be redirected to the forgot password page.
    - If the user inputs a correct email and password, they will be redirected to the main page.
    - When the user clicks on the settings page, they will be redirected to a page where they can change their account information.

User story #8:

As a user, I would like to reset my password if I forget it.

#	Description	Estimated Time	Owner
1	Send a temporary code to the user's email address when the user clicks the "forgot password" option on the login page	2	Youngjun
2	Create a forgot password page where user can input their email to receive a temporary code	2	Chaewon
3	Create a change password page that only shows up if the user enters the correct temporary code	1	Chaewon
4	Store the user's updated password in the database	1	Hosung
5	Debug and manually test if the password reset process is successful.	4	Chaewon

Acceptance Criteria:

- Given that a user forgets their password, when they choose the "forgot password" option, they will receive a temporary code in the email address they created an account with.
- Given that the user receives a temporary code, when they attempt to log in with the temporary code, they will be redirected to a change password page.
- Given that the user's new password inputted on the change password page is different from the temporary code, when the user updates their password, they will be able to log in to their account.
- Given that the user's new password was updated in the database, when the user attempts to log in with their new password from the login page, they will be able to log in to their account.
- Manual testing
  - When the user clicks on the "forgot password" option on the login page, they will be redirected to the forgot password page.
  - When the user inputs their email on the forgot password page, they will receive a temporary code in their email.
  - If the user enters the correct temporary code, they will be redirected to the change password page.
  - When the user enters their new password, the change will be reflected in the database.

User story #9:

As a user, I would like to set up and display a text section about me that shows up at the top of my profile (bio).

#	Description	Estimated Time	Owner
1	Create a page to initialize the text box (bio) when creating a profile	1	Chaewon
2	Create a character limit for the text box	1	Chaewon

#	Description	Estimated Time	Owner
3	Store information in the database	1	Hosung
4	Debug and manually test if the user bio is successfully submitted and displayed	3	Chaewon

Acceptance Criteria:
- Given that the UI for the text box to edit biography is implemented correctly, when the user enters the profile page, they should be able to see their current bio and edit if necessary.
- Given that the connection between the database and the UI panel is correctly implemented, when the user edits their bio, both the text box and the database should reflect the updated change.
- Given that the character limit for the text box is properly implemented, when the user exceeds the character limit (200 characters), the application will limit the user from inputting more characters.
- Manual Testing
    - When the user gets to the initialize text box (bio) step of account creation, they will be able to enter up to 200 characters for their bio.
    - If they attempt to enter more than 200 characters, they will be unable to do so.
    - When the user completes the text box (bio), it will be stored in the database and redirected to the main page.

User story #10:

As a user, I would like to edit my profile whenever possible.

#	Description	Estimated Time	Owner
1	Create a button in the top right corner of the main page that redirects to the profile page	1	Hosung
2	Update and store changes in the database	2	Hosung

3	Debug and manually test if the profile was successfully updated	4	Jeongbin

Acceptance criteria:

- Given that the button UI is implemented properly, when the user attempts to click the button, they should be redirected to the profile page.
- Given that the profile page has been properly implemented, when the user accesses the profile page, the user can view all the categories of the profile and make changes to each category.
- Given that the integration with the database is properly implemented, when the user makes changes, the user will be able to see the updated profile.
- Manual testing:
    - Like user stories 4, 5, 6, and 9, when the user tries to update the profile by uploading photos, choosing predefined tags, creating customizable tags, or writing personal biography anytime, the changes will be reflected in the profile page and the database.

Backlog

Remaining Backlogs

Functional

1. As a user, I would like to create a BoilerDate account using my Purdue email, name, gender, and age.
2. As a user, I would like to be able to see and agree to the rules and safety guidelines so that I know some expectations before creating an account.
3. As a user, I would like all users to authenticate their Purdue email when creating an account so that I can trust that all accounts are made by Purdue students.
4. As a user, I would like to log in and manage my BoilerDate account.
5. As a user, I would like to reset my password if I forget it.
6. As a user, I would like to upload and show my photos for my profile.
7. As a user, I would like to display a text box about me that shows up at the top of my profile (bio).
8. As a user, I would like to set up and display my profile using predefined tags.
   a. As a user, I would like to choose and display my traits such as height, gender, and age.
   b. As a user, I would like to choose my academic and educational information such as GPA, major, and degree type.
   c. As a user, I would like to choose and display my interests and hobbies for my profile.
   d. As a user, I would like to choose and display my relationship goals for my profile.
   e. As a user, I would like to choose and display my personality type for my profile.
   f. As a user, I would like to select my lifestyle and show it on my profile.
   g. As a user, I would like to choose and display my citizenship status for my profile.
9. As a user, I would like to set up and display my profile using customized tags.
   a. As a user, I would like to choose my career information such as career goals and employment history.
   b. As a user, I would like to choose and display my skills for my profile.
   c. As a user, I would like to choose to display my LinkedIn profile and/or GitHub username.
10. As a user, I would like to edit my profile whenever I want.
11. As a user, I would like to select an option for all items listed under number (12) when building my profile.

12. As a user, I would like to filter out those who do not match my preference.
    a. As a user, I would like to filter potential matches by GPA.
    b. As a user, I would like to filter potential matches by major.
    c. As a user, I would like to filter potential matches by gender.
    d. As a user, I would like to filter potential matches by age range.
    e. As a user, I would like to filter potential matches by interests and hobbies.
    f. As a user, I would like to filter potential matches by career goals.
    g. As a user, I would like to filter potential matches by relationship goals (friendship, significant other, etc.).
    h. As a user, I would like to filter potential matches by personality type.
    i. As a user, I would like to filter potential matches by skills (coding, bilingual, etc.).
    j. As a user, I would like to filter potential matches by companies they interned/worked at (potential referral giver).
    k. As a user, I would like to filter potential matches by degree (BA, MA, PhD).
    l. As a user, I would like to filter potential matches by US citizenship / green card.
    m. As a user, I would like to filter potential matches by lifestyle.
13. As a user, I would like to set up my privacy settings.
14. As a user, I would like to see the profile of the potential match.
15. As a user, I would like to like/dislike another user.
16. As a user, I would like to match with another user if I like another user and the user likes me.
17. As a user, I would like to see the list of users and their profiles that I liked, that liked me, and that I matched with.
18. As a user, I would like to view a messages page.
19. As a user, I would like to send and receive messages from my matches.
20. As a user, I would like to be able to differentiate between different conversations.
21. As a user, I would like to see the next user and their profile after liking or disliking the current user.
22. As a user, I would like to receive a notification (email) when matched with another, when another user likes me, and when a matched user sends me a message.
23. As a user, I would like to be able to adjust my notification settings (ex. Only receive notifications when matched with another user).
24. As a user, I would like to choose my most significant feature to display in a dedicated section of my profile.
25. As a user, I would like to be able to log out of my account.
26. As a user, I would like to be able to block any user.
27. As a user, I would like to be able to unmatch a matched user.

28. As a user, I would like to be able to delete my account and remove my private information.
29. As a user, I would like the option to provide feedback on my overall experience and rate the app.
30. As a user, I would like to report any issues and receive an email when the issue has been resolved.
31. As a user, I would like to receive updates on new features and improvements of the app, keeping me informed about the app's development.
32. As a user, I would like to receive a text message when there is a notification.
33. As a user, I would like to report any user who does not meet our safety guidelines.
34. As a user, I would like to edit or delete messages I have sent (if time allows).
35. As a user, I would like to set up plans with my match (if time allows).
36. As a user, I would like to see updates and activities from my matches, such as new photos or profile changes, in a centralized activity feed (if time allows).
37. As a user, I would like to know the geographical location and distance of my match (if time allows).
38. As a user, I want a seamless and user-friendly process to upgrade to the premium account (if time allows).
39. As a premium user, I would like to decorate my profile with extra features (if time allows).
40. As a premium user, I would like to boost my appearance in other users' potential match lists (if time allows).
41. As a premium user, I would like to share my profiles via notification email to all other users (if time allows).