

# *Bench*

## Sprint 1 Planning Document

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### **Sprint Overview**

During this sprint, we plan to create the fundamental foundation of our software. As developers, we want to have working welcome, login, and sign-up pages that are organized and user-friendly. By the end of this sprint, we want to have a working web application which users can log into and view and edit their profiles. Each feature must function reliably so that the rest of the application can be built upon them.

**Scrum Master:** Leo Lee

**Meeting Plan:** Tuesday @2:50-3:20pm, PMU G011

**Risk and Challenges:** Most of our developers are new to ReactJS, NodeJS and Firebase. We hope that our choices for the tech stack integrate well with one another. We also need to organize the code repository for our project. Moreover, this is the first sprint that our team will be working together for development purposes, so we will need to spend some time figuring out what everyone is comfortable with and what their specific areas of expertise are.

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## Current Sprint Detail

### User Story #1

*As a user, I would like to be advised to visit the welcome page of the web-application.*

#	Description	Estimated Time	Owner
1	Create UI welcome page with options for “Login” and “Create an Account”	2 hours	Joy
2	Create a backend server for communication with the client side	6 hours	Estelle
3	Test and debug welcome page options	2 hours	Jefferson

#### Acceptance Criteria:

- Given the UI for the welcome page is implemented correctly, then the user will be taken to the account creation page if they clicked the “Create an Account” button.
- Given the UI for the welcome page is implemented correctly, then the user will be taken to the login page if they clicked the “Login” button.
- Given the UI for the welcome page is implemented correctly, then the user can navigate from the login page to the sign up page, and vice versa.

### User Story #2

*As a user, I would like to be able to create a Bench account.*

#	Description	Estimated Time	Owner
1	Create UI page expand “create an account” option.	4 hours	Shatakshi
2	Post the data from the UI to the	3 hours	Shatakshi

	backend for “Create an Account”		
3	Configure server to send user information to database	5 hours	Joy
4	Fetch status code from the backend and update the frontend accordingly for “Create an Account”	1 hour	Leo
5	Set up database to store user information	6 hours	Leo
5	Hash user information to database. Check if user exists, if not add user to the database	6 hours	Jefferson
6	Debug and test account creation	2 hours	Estelle
7	Create an error message if some elements do not meet the criteria	2 hours	Estelle

#### Acceptance Criteria:

- Given the backend for account creation is implemented correctly, when a user attempts to create an account, the user’s information will be added to the databases provided that the necessary information is unique.
- Given the user enters all valid information for account creation, when they clicked the sign up button, the information will first be analyzed in order to check whether the user is eligible to sign up with the provided element
- Sign-up check includes checking whether the username is available, the email exists and has not been used, the password is strong and identical to the confirm password element, as well as the age is appropriate.

### User Story #3

*As a user, I would like to be able to log in with my existing Bench account.*

#	Description	Estimated Time	Owner
1	Create a UI page that expands the “Login” option.	2 hours	Shatakshi
2	Post the data from the UI to the backend for “Login”	2 hours	Shatakshi
3	Configure server to send user information to database	3 hours	Joy
4	Verify the user information. Send status code accordingly	3 hours	Leo
5	Fetch status code from the backend and update the frontend accordingly for “Login”	2 hour	Jefferson
6	Debug and test user login	2 hours	Jefferson

#### Acceptance Criteria:

- Given the UI for the login page is implemented correctly, when the user attempts to log in, the frontend login page will send the inputs from the input text fields for the username and the password to the backend to confirm the information within the database.
- Given the user enters all valid information on the login page, when they click the login button, they will be brought to the main matching page.
- Given the user enters invalid information, they will get an error and be prompt to enter information again.

## User Story #4

*As a user, I would like to have a settings panel.*

#	Description	Estimated Time	Owner
1	Set up settings UI page for users to make changes in application settings.	4 hours	Leo
2	Link the setting page to the server, have the server be ready to handle requests.	3 hours	Joy
3	Hash user setting preference to database.	2 hours	Estelle
4	Unit test each coverage of the setting panel	1 hour	Joy

### Acceptance Criteria:

- Given that the UI is correctly developed, users will be able to view the settings panel and configure, make adjustments to the application.
- Given that the setting page is implemented correctly, users will be able to access account information and make changes to their personal information.
- Given that the setting page is implemented correctly, users can close their setting page while having all their setting preferences kept saved in their database.

## User Story #5

*As a user, I would like to be able to manage my Bench account.*

#	Description	Estimated Time	Owner
1	Create a tab which takes the user to the account settings	2 hours	Jefferson
2	Create UI to allow users to edit account settings	2 hours	Leo

3	Send the updates to the backend to make changes in the database	3 hours	Joy
4	Update user's information in database to reflect updated account settings	1 hour	Estelle
5	Test updating user account settings	2 hour	Shatakshi

#### Acceptance Criteria:

- Given that the user is on the “Manage my Account” tab, they can choose to change any setting except for the username and email.
- Given that the user requests to change account settings, they will be prompted to enter their password for security measures. The back-end will verify the information and send success/error code accordingly.
- Given that the user is on the “Manage My Account” tab, the information that has been changed will be saved to the corresponding database accordingly.

## User Story #6

*As a user, I would like to be able to find my username using my email address.*

#	Description	Estimated Time	Owner
1	Create a “Forgot Username” button	1 hour	Shatakshi
2	Create an interface to enter user email address	3 hours	Jefferson
3	Method to send username to the entered email	2 hours	Leo
4	Unit test the “Forgot Username” functionality	1 hour	Estelle

#### Acceptance Criteria:

- Given that the UI is created correctly, users will be able to send finding username requests to the server by following the interface.

- Given that the database is set up properly, users will be able to receive a recovery email about the username information.
- Given that the verification algorithm is set up correctly, users will be able to retrieve and login to Bench properly.

## User Story #7

*As a user, I would like to be able to recover my password if I forget it.*

#	Description	Estimated Time	Owner
1	Create UI for recover my password	2 hour	Shatakshi
2	Send a recovery email to the email address associated with the account	2 hours	Estelle
3	Validate recovery email, allow user to reset password.	1 hour	Joy
4	Test recovering the user's password	2 hour	Jefferson

### Acceptance Criteria:

- Given that the user is on the login page, when they select recover my password, they should be taken to a *Recover my password* page
- Given that a user has a registered account and is on the *Recover my password* page, when they enter their email address and select the Recover my password button, then they should receive a verification code in their email for recover password
- Given that they entered their verification code correctly, when they enter their new password and confirm it then their password should be updated in the database

## User Story #8

*As a user, I would like to upload a local file as my profile picture.*

#	Description	Estimated Time	Owner
1	Configure firebase to save images and associated links.	4 hours	Jefferson
2	Create an UI for users to upload images.	3 hours	Shatakshi
3	Create access to desktop or file on local machine	1 hour	Joy
4	Test uploading a local file as the profile picture	1 hour	Leo

### Acceptance Criteria:

- Given that the UI is created correctly, when users access the profile display, they can choose to upload a profile picture.
- Given that the UI-server-database was set up correctly, when a user views their profile, it will display an associated picture.
- Given that the UI-server-database was set up correctly, when an user is viewing another user's profile they will be able to view the associated profile picture.

## User Story #9

*As a user, I would like to be able to edit my profile information.*

#	Description	Estimated Time	Owner
1	Make UI for editing profile	2 hours	Estelle
2	Make a server to handle changes that were made.	3 hours	Leo



3	Server to update database when there is a permanent change in profile.	1 hour	Estelle
4	Unit test editing the user's profile information	1 hour	Shatakshi

#### Acceptance Criteria:

- Given that the UI was properly created, users will be able to access the edit profile display and make adjustments to their profile information.
- Given that the UI was properly created, when the user interacts with the edit profile UI, it will immediately make changes and display it to the user.
- Given that the server was configured properly, it will correctly update the user information when the request was made.

### User Story #10

*As a user, I would like to change the color theme of the page.*

#	Description	Estimated Time	Owner
1	Create a UI with a color palette where users can choose the theme of their page	2 hours	Joy
2	Connect the selected color palette selection and save as a preference for the specified user	2 hours	Estelle
3	Unit test changing the color theme of the page	1 hour	Joy

#### Acceptance Criteria:

- Given that the user is in the color theme selection page, they are able to see a preview of the color theme.
- Given the user selected a color theme, the color theme is changed immediately after selection

- Given the user has a color theme saved, the color theme is stored properly and is reflected next time the user logs in.

## User Story #11

*As a user, I would like to be able to deactivate/delete my account.*

#	Description	Estimated Time	Owner
1	Have UI and button to request a deactivate account.	2 hours	Joy
2	Algorithm to authenticate user requests.	3 hours	Shatakshi
3	Server to access database and remove user information.	2 hours	Jefferson
4	Return appropriate feedback to the user.	3 hours	Estelle
5	Test deactivating the user account	1 hour	Estelle

### Acceptance Criteria:

- Given that the UI and button was implemented properly, the user will be able to attempt to deactivate the account, it will guide the user through the process of deactivating.
- Given that the algorithm for authentication is created properly, users will be able to authenticate the request.
- Given that the server is configured properly, when a user requests to deactivate the account, it will correctly remove the particular user from the database.

## User Story #12

*As a user, I would like to be able to view and review my profile.*

#	Description	Estimated Time	Owner
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1	Make a UI access from the home/main page to the profile page, with all of the available contents provided	4 hours	Shatakshi
2	Develop the UI for every profile to be uniformed, but the owner of the profile will have additional access, such as editing	4 hours	Leo
3	Develop the profiles with scrollable preferences	3 hours	Estelle
4	Make UI buttons that can redirect to the user's ratings and reviews page, own's events and own's matched list	3 hours	Joy
5	Test viewing and reviewing the user's profile	1 hour	Jefferson

#### Acceptance Criteria:

- Given that the user navigates to the profile page, the profile of user is displayed properly with details.
- Given that the user is the owner of the account, the user has special access to modify profile details.
- Given that the user is in the profile page, the user is able to further navigate to the rating and review page.

### User Story #13

*As a user, I would like to be able to set my status in my profile.*

#	Description	Estimated Time	Owner
1	Make a UI to display user status and be able to edit the status.	3 hours	Leo
2	Develop server to query user status.	3 hours	Jefferson

3	Save status preference with the associated user	2 hours	Estelle
4	Make test cases to ensure status is set properly	2 hours	Joy

#### Acceptance Criteria:

- Given that the UI is created properly, users can access the profile status display and view the status.
- Given that the server is configured properly, user status will be accurately saved to the database when the request was made.
- Given that the UI and server are created properly, users can access and edit personal status.

### User Story #14

*As a user, I would like to be able to access other user's social media accounts that are public and listed in their profile.*

#	Description	Estimated Time	Owner
1	Create a UI in user profile that can access the provided social media accounts	3 hours	Joy
2	Provide the username, followers, and user profile picture on the the UI	2 hours	Estelle
3	The username of a social media account that is provided by the user will be saved in the database of the profile owner	1 hour	Jefferson
4	Testing to ensure links that are generated are accurate, only generate and display the given links	2 hours	Jesserson

#### Acceptance Criteria:

- Given that the social media accounts of every user is set up correctly, a user can be redirected directly to the application.
- Given that the “link social media” is created properly, users can link their other social media that are set to public to a bench profile.
- Given that the server is configured properly, it will correctly output requested links to other social media when a user tries to access/view the data, along with the profile picture and followers

### User Story #15

*As a user, I would like to see the main matching page with a navigation bar.*

#	Description	Estimated Time	Owner
1	Create an UI main page and navigation bar.	4 hours	Shatakshi
2	Have a navigation bar and UI linked to the user account.	3 hours	Jefferson
3	Have UIs that can access the search page, notifications page, chat rooms and the user’s profile	4 hours	Leo
4	Create access to any user profile, while keeping the main matching page to be always on display.	3 hours	Joy
5	Test cases to ensure each page displays only the data that are linked to the user	3 hours	Leo

#### Acceptance Criteria:

- Given that the UI of the navigation bar is created properly, users can access and view the navigation bar of the application that is linked to the user account/preference/theme.

- Given that the main page UI was implemented correctly, users can access/view search, notification, chat, profile pages of the application.
- Given that the server is created properly, when the user requests the page, the server will correctly retrieve the data that is associated with the user account and return it to the user.

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## Remaining Backlog

### Functional Requirements

#### 1. User Account

As a user,

- ~~a. I would like to be advised to visit the welcome page of the web app.~~
- ~~b. I would like to be able to create a Bench account.~~
- ~~c. I would like to be able to log in with my existing Bench account~~
- ~~d. I would like to have a settings panel.~~
- ~~e. I would like to be able to manage my Bench account.~~
- ~~f. I would like to be able to deactivate/delete my account.~~
- ~~g. I would like to be able to find my username using my email address.~~
- ~~h. I would like to be able to reset my password if I forget it.~~
- ~~i. I would like to upload a local file as my profile picture.~~
- ~~j. I would like to be able to view and review my profile.~~
- ~~k. I would like to be able to edit my profile information.~~
- ~~l. I would like to be able to set my status in my profile.~~
- ~~m. I would like to change the color theme of the page.~~
- ~~n. I would like to be able to access other user's social media accounts that are public and listed in their profile.~~

#### 2. Filtering and Sorting System

As a user,

- ~~a. I would like to see the main matching page with a navigation bar.~~
- b. I would like to view the set of the matched and sorted users on the matching page.
- c. I would like to be able to see a dashboard that shows the user's profile information.
- d. I would like to be able to delete a user in the current matching set.
- e. I would like to be able to match with a new user.

- f. I would like to be able to access other user's social media accounts that are public and listed in their profile.
- g. I would like to search for a user by name.
- h. I would like to have a filter panel and be able to apply it.
- i. I would like to see users matching according to the highest ratings.
- j. I would like to block another user from appearing on my matching page.
- k. I would like to see the last time that the user logged in on the user's dashboard.

### 3. Calendar

As a user,

- a. I would like to be able to view my calendar.
- b. I would like to be able to easily navigate through my calendar.
- c. I would like to edit/personalize my calendar.
- d. I would like to add an event scheduled with a person I matched with into the Bench calendar.
- e. I would like to export my event calendar (if time allows).

### 4. Real-time Notifications

As a user,

- a. I would like to get mail to my registered email account regarding my notifications.
- b. I would like to be able to receive a notification when there is a new incoming chat.
- c. I would like to turn off my notifications.

### 5. Review System

As a user,

- a. I would like to be able to show/see other user's ratings/reviews for me.
- b. I would like to be able to show/see other user's ratings/reviews.
- c. I would like to give other users reviews, only if I have given a rating.
- d. I would like to be able to show/see the average of rating for a user.
- e. I would like to be able to set myself anonymous when giving another user reviews.
- f. I would like to be able to edit/delete a review I gave for someone.



- g. I would like to be able to go to the user that is not anonymous that has given a review to my profile or another user.
- 6. Report giving
  - As a user,
    - a. I would like to be able to report a given review.
    - b. I would like to be able to report a suspicious person in the chat box.
- 7. Messaging
  - As a user,
    - a. I would like to be able to easily navigate through the message panel.
    - b. I would like to be able to send/request messages with a person that I was matched with.
    - c. I would like to be able to reply to an incoming message from a matched user.
    - d. I would like to be able to show/manage all the chat history.
    - e. I would like to be able to share pictures in the chat with a matched person.
    - f. I would like to be able to accept/deny an incoming chat request.
    - g. I would like to be able to block a user's incoming messages.
    - h. I would like to be able to share videos in the chat room (if time allows).
    - i. I would like to request another user review/rating from other people (if time allows).

## **Non Functional Requirements**

- 1. Performance
  - a. I would like the application to run smoothly without crashing.
  - b. I would like the application to be launched in 5 seconds.
  - c. I would like the application to support 10000 users.
- 2. Server
  - a. I would like the server to support real time server client communication.
  - b. I would like the server to be able store users data to a database

### 3. Appearance

As a developer,

- a. I would like to create a user-friendly and pleasing user interface.
- b. (If time allows) I would like to allow users to customize their user interface

### 4. Security

As a developer,

- a. I would like to let the users choose whether to enable access to their personal information (e.g. specific location and other social media account) or not.
- b. I would like the application to have some algorithms for rating, reporting and blocking users to avoid bad behaviors of some users.
- c. (If time allows) I would like to protect the user's password and personal information being stored in the database.
- d. (If time allows) I would like to limit one account per individual to avoid users from abusing the application.

### 5. Usability

As a developer,

- a. I would like the application to be friendly, helpful and self-explainable.
- b. I would like the application to be able to run on web browsers.