



Sprint 3 Planning Document

Team 32: Ali Fareed Shirazi, Sara Xiao, Jun Shern Lim, Ming Yan Ti

Sprint Overview

This sprint we hope to work on and finalize the searching, chatting and reviewing features, mainly. We want borrowers to be able to see individual ratings and reviews for an item as well as its owners, and lenders to be able to see ratings and reviews for each of the borrowers requesting their items. We would like to facilitate communication between users by creating an easy-to-use chatting system. Finally, we want to give users the ability to search for items that they need, and to make this process more effective with searching/filtering/sorting results based on tags, rating, etc.

Scrum Master: Ming Yan Ti

Meeting Plan: Tuesdays 12 p.m. and Saturdays at 2 p.m.

Risk and Challenges:

The chatting system will be the first time any of us have worked with or implemented such a feature, and adapting to an API and customizing it will take time and effort. Also, many of the features we hope to implement will be between multiple users/instances of the webpage, so testing will be more difficult that way.

ITEMBNB

User Story #4

As a user, I would like to rate and review a lender or borrower after they've completed a transaction with me.

No.	Description	Estimated Time	Owner
1	Create a component in the profile page to allow a user to post/write a rating/review.	2 hours	Sara
2	Create a 'review creation' page with a UI that lets the user add custom styling to reviews.	4 hours	Sara
3	Create a validation function to make sure the inputs for the fields are valid.	1 hour	Sara
4	Create an API to send the rating and review description from the backend.	1 hour	Sara
5	Create an API to check if the visited profile has done a transaction with this user.	1 hours	Sara
5	Create functionality for editing and deleting reviews.	2 hours	Sara
6	Testing.	30 min	Sara

Acceptance criteria:

1. Given the rating component is implemented correctly, when the user navigates to another user they've had a transaction with, the user can input a review and give up to 5 stars.
2. Given the rating component is implemented correctly, if the user has any invalid inputs (blank field, string input for a number rating field) when submitting a review, the user will see an error message.
3. Given the rating component is implemented correctly, when the user submits the review with valid inputs, the user will see a success message.
4. Given that editing and deleting reviews/ratings is implemented correctly, when the user is done editing or deleting a review/rating and submits, the change should be reflected accordingly.

ITEMBNB

User Story #5

As a user, I would like to see reviews of myself as well as reviews of other users.

No.	Description	Estimated Time	Owner
1	Create a section of the user page that displays reviews of that user.	3 hours	Sara
2	Create functionality for calculating user ratings and updating them when a new rating is added to the average.	2 hours	Sara
3	Create a link to edit or delete your review from the review viewing page, if you are the original user who wrote that review.	1 hour	Sara
4	Create functionality to filter through different types of reviews.	4 hours	Sara
5	Testing	30 min	Sara

Acceptance criteria:

1. Given the review viewing component is implemented correctly, when a user accesses a user's page, they will be able to see all the reviews and ratings made for that user.
2. Given that ratings are implemented correctly, when a user's information is displayed, the user's rating should appear with its correct value.
3. Given the review filtering feature is implemented correctly, when a user is looking at another user's reviews, the user will be able to prioritize specific types of reviews to view.
4. Given that user previews are implemented correctly, when a user sees a review/rating, they should be able to see an information preview about the user who submitted the review/rating.

ITEMBNB

User Story #21

As a borrower, I would like to rate and review an item I have borrowed.

No.	Description	Estimated Time	Owner
1	Create a component in the item page to allow a user to post/write a rating/review for the item.	2 hours	Sara
2	Create a 'review creation' page with a UI that lets the user write multi-paragraph reviews.	4 hours	Sara
3	Create a validation function to make sure the inputs for the fields are valid.	1 hour	Sara
4	Create an API to send the rating and review description from the backend.	1 hour	Sara
5	Create functionality for editing and deleting reviews	2 hours	Sara
6	Testing	30 min	Sara

Acceptance criteria:

1. Given the rating component is implemented correctly, when the user navigates to one of their finished reservations, the user can input an item review and give up to 5 stars.
2. Given the rating component is implemented correctly, if the user has any invalid inputs when submitting a review, the user will see an error message.
3. Given the rating component is implemented correctly, when the user submits the review with valid inputs, the user will see a success message.
4. Given that editing and deleting reviews/ratings is implemented correctly, when the user is done editing or deleting a review/rating and submits, the change should be reflected accordingly.

ITEMBNB

User Story #7

As a user, I would like to be able to view a list of my active chats.

No.	Description	Estimated Time	Owner
1	Create a chat page to show a preview of all chats with all other users that are in active conversation.	3 hours	Ali
2	Make chat list ordering update whenever a new message is sent (most recent chats first, etc)	3 hours	Ali
3	Add search feature to find certain chats.	3 hours	Ali
4	Testing	30 mins	Ali

Acceptance criteria:

1. Given the chat list feature is working correctly, when I select a chat preview from the list I should be redirected to the whole chat component.
2. Given the chat list feature is working correctly, when a message is sent or received in a certain conversation, the chat preview for that conversation should appear at the top.
3. Given the search functionality is working, searching for a user should make the conversation with that user appear at the top of the list.
4. Given the search functionality is working, searching for a user whom we do not have an active conversation with should return an empty list.

ITEMBNB

User Story #8

I would like to send and receive chat messages with another user for in-progress lending activities (items I have borrowed but have yet to return) in real time.

No.	Description	Estimated Time	Owner
1	Connect with TalkJS API to create the chatting system.	8 hours	Ali
2	Create a validation function to validate message contents.	2 hours	Ali
3	Create functionality to allow us to view the other user's user page.	2 hours	Ali
4	Testing	30 mins	Ali

Acceptance criteria:

1. Given the send/receive chat message feature is correctly implemented, the user will not be able to send an empty chat message.
2. Given the send/receive chat message feature is correctly implemented, when a user clicks on the Send button with valid message, the user will see their newly submitted message part of the chat.
3. Given the send/receive chat message feature is correctly implemented, when a message is received the user should see that message in the chat logs.
4. Given the chat message system is correctly implemented, when a user clicks on the other user's avatar, the user should be redirected to the other user's page.

ITEMBNB

User Story #39

As a user, I would like to be notified for new messages, as well as when another user wants to initiate a conversation with me.

No.	Description	Estimated Time	Owner
1	Create functionality to let users search for and initiate a new chat with other users.	3 hours	Ali
2	Create functionality to let users mute a chat.	2 hours	Ali
3	Create functionality to receive an email when another user wants to start a conversation.	1 hour	Ali
4	Create functionality to redirect the user to the new conversation initiated by another user from the email	1 hour	Ali
5	Create a notification functionality for chat messages.	3 hours	Ali
6	Testing	30 mins	Ali

Acceptance criteria:

1. Given the initiate conversation feature is working, searching for a user should make that user appear in a list and have the option to start a chat with them.
2. Given the mute functionality is working, muting a conversation should make it so that notifications from that chat are no longer received.
3. Given the system works, when a user chooses to invite another user to a conversation the other user should receive an email notification of this invitation.
4. Given the message notification system works, when the user clicks on the redirection button on the email, he will be redirected to the new conversation initiated by the other user.
5. Given the notification system is correctly implemented, when the user receives a message, an email should be sent to that user.

ITEMBNB

User Story #10

As a borrower, I would like to search for available items.

No.	Description	Estimated Time	Owner
1	Add a search bar to homepage	2 hrs	Jun
2	Create a validation function to make sure the search field is not empty.	1 hr	Jun
3	Create a search results page	3 hrs	Jun
4	Create backend APIs to handle the search requests from the clients and return the results.	3 hrs	Jun
5	Testing	1 hr	Jun

Acceptance criteria:

1. Given the search feature is correctly implemented, when the user clicks the 'Search' button with an empty search field, the user will see an error message.
2. Given the search feature is correctly implemented, when the user clicks the 'Search' button with a valid search field, the user will see a search results page with items that match the search description.
3. Given the search feature is correctly implemented, when the user clicks the 'Clear' button, the search bar will be cleared.
4. Given the search feature is correctly implemented, when the user enters a search request that does not match any item (in relation to item name, description or owner, etc), the user will see a message displaying no results were found.
5. Given that the search results are implemented correctly, when the user clicks on a result, they will be redirected to that item's post page.

ITEMBNB

User Story #11

As a borrower, I would like to filter or sort search results by price range, rating, number of users who have borrowed the item, etc.

No.	Description	Estimated Time	Owner
1	Create a search filter UI in the search results page	2 hrs	Jun
2	Create a sorting UI in the search results page	2 hrs	Jun
3	Implement algorithm to handle filtering/sorting search results.	3 hr	Jun
4	Create feature to update search result page automatically upon submitting the filters	2 hrs	Jun
5	Testing	2 hrs	Jun

Acceptance criteria:

1. Given that the search filter is implemented correctly, when the user selects filters that don't fulfill any item, the user will see a message displaying no results were found.
2. Given that the search filter is implemented correctly, when the user selects filters that fulfill at least one item, the user will see all items matching the filters appear in the search results page.
3. Given that the 'clear filters' feature is implemented correctly, when the user clicks on the button to clear filters, all filters will be removed.
4. Given that the sorting feature is implemented correctly, when the user selects a certain sorting pattern, the search results will be sorted according to that pattern (eg, highest to lowest ratings).

ITEMBNB

User Story #12

As a borrower, I would like to browse different categories of items.

No.	Description	Estimated Time	Owner
1	Restructure homepage to handle browsing multiple item categories.	4 hrs	Jun
2	Create different tabs in the homepage to navigate between different categories	2 hrs	Jun
3	Set up backend APIs to handle retrieving items with different category tags	2 hrs	Jun
4	Testing	2 hrs	Jun

Acceptance criteria:

1. Given that the browsing feature is implemented correctly, when the user clicks on an item category, all items tagged under that category will appear on the user's feed.
2. Given that the browsing feature is implemented correctly, when a user clicks on a category that has no items associated with it, the user will get a message indicating that no items were found under that category.
3. Given that the category tabs feature is implemented correctly, when a user clicks on the tab, the particular tag will be highlighted to show that the user is browsing items under this tag.
4. Given that the category tabs feature is implemented correctly, when a user clicks on the currently selected tab again, the tab will be unselected, and the user will return to the homepage.

ITEMBNB

User Story #6

As a user, I would like to see reviews given to an item.

No.	Description	Estimated Time	Owner
1	Create a section of the item page that displays reviews of that item.	3 hours	Kay
2	Create functionality for calculating the rating of an item and updating it when a new rating is added to the average.	2 hours	Kay
3	Create a link to edit or delete your review from the review viewing page, if you are the original user who wrote that review.	1 hour	Kay
4	Create functionality to filter through different types of reviews.	4 hours	Kay
5	Testing	30 min	Kay

Acceptance criteria:

1. Given the review viewing component is implemented correctly, when a user accesses a item's page, they will be able to see all the reviews and ratings made for that item.
2. Given that ratings are implemented correctly, when an item's information is displayed, the item's rating should appear with its correct value.
3. Given the review filtering feature is implemented correctly, when a user is looking at an item's reviews, the user will be able to prioritize specific types of reviews to view.
4. Given that editing and deleting reviews/ratings is implemented correctly, when the user is done editing or deleting a review/rating and submits, the change should be reflected accordingly.
5. Given that user previews are implemented correctly, when a user sees a review/rating, they should be able to see an information preview (reviewer's name and photo) about the user who submitted the review/rating.

ITEMBNB

User Story #18

As a borrower, I would like to view my borrowing history.

No.	Description	Estimated Time	Owner
1	Create a backend API to get all the previous borrowed transactions from the backend.	2 hrs	Kay
2	Create a page in the frontend to view the borrowing history.	3 hrs	Kay
3	Create a switch view mode to minimize/maximize each item post in the borrowing history page.	1 hr	Kay
4	Create a button that displays the lending transactions either ordered from most recent, or alphabetically by item's name.	2 hrs	Kay
5	Create a function to redirect the user to the item post page when clicking on it.	1 hr	Kay
6	Testing	2 hrs	Kay

Acceptance criteria:

1. When the borrowing history component is correctly implemented, when the user navigates to this page, the user will see a list of their previously borrowed items with minimal details (item's name, item's picture, start borrowed date, end borrowed date).
2. When the borrowing history component is correctly implemented, when the user navigates to this page and he/she has no borrowing history, the user will see a message "You have no borrowing history yet!" shown.
3. When the borrowing history component is correctly implemented, when the user clicks on an item, the user will be redirected to the item post page.
4. When the borrowing history component is correctly implemented, when the user toggles on/off on the switch view mode, the user will see either a minimized view or a maximized view of each post. (like the toggle mode in Favorites or in recommending items).

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5. When the borrowing history component is correctly implemented, when the user clicks on the 'List by most recent' button, the user will display the list of the borrowed transactions ordered by date.
6. When the borrowing history component is correctly implemented, when the user clicks on the 'List by alphabetical order' button, the user will display the list of the borrowed transactions ordered by item's name alphabetically.

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User Story #35

As a lender, I would like to view my lending history.

No.	Description	Estimated Time	Owner
1	Create a backend API to get all the previous lending transactions from the backend.	2 hrs	Kay
2	Create a page in the frontend to view the lending history.	1 hrs	Kay
3	Create a switch view mode to minimize/maximize each item post in the lending history page.	2 hrs	Kay
4	Create a button that displays the lending transactions either ordered from most recent, or alphabetically by borrower's name.	1 hr	Kay
5	Create a function to redirect the user to the item post page when clicking on it.	1 hr	Kay
6	Create a side component to view the only past transactions for each item individually.	1 hr	Kay
7	Testing	1 hr	Kay

Acceptance criteria:

1. When the lending history component is correctly implemented, when the user navigates to this page, the user will see a list of their previously lent-out items with minimal details (item's name, start borrowed date, end borrowed date, and the borrower's name, borrower's picture).
2. When the borrowing history component is correctly implemented, when the user navigates to this page and he/she has no lending history, the user will see a message "You have no lending history yet!" shown.
3. When the lending history component is correctly implemented, when the user clicks on an item, the user will be redirected to the item post page.
4. When the lending history component is correctly implemented, when the user toggles on/off on the switch view mode, the user will see either a minimized view or a maximized view of each post. (like the toggle mode in Favorites or in recommending items).

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5. When the lending history component is correctly implemented, when the user clicks on the 'List by most recent' button, the user will display the list of the borrowed transactions ordered by date.
6. When the lending history component is correctly implemented, when the user clicks on the 'List by alphabetical order' button, the user will see the list of the borrowed transactions ordered by borrower's name alphabetically.
7. When the lending history component is correctly implemented, when the user clicks on an item on the 'My Items' in the lending history bar, the user will see only the past transactions for this item.



Remaining Backlog

Functional Requirements

- ~~1. As a user, I would like to register for an Itembnb account.~~
- ~~2. As a user, I would like to log in and log out of my account.~~
- ~~3. As a user, I would like to view/edit/delete my profile.~~
4. As a user, I would like to rate and review a lender or borrower after they've completed a transaction with me.
5. As a user, I would like to see reviews of myself as well as reviews of other users.
6. As a user, I would like to see reviews given to an item.
7. As a user, I would like to be able to view a list of my active chats.
8. As a user, I would like to send and receive chat messages with another user for in-progress lending activities (items I have borrowed but have yet to return) in real time, as well as get notified if someone messages me.
- ~~9. As a user, I would like to see a homepage with a feed for items up for borrowing and items that people have requested.~~
10. As a borrower, I would like to search for available items.
11. As a borrower, I would like to filter search items by tags, price range, etc.
12. As a borrower, I would like to browse different categories of items.
- ~~13. As a borrower, I would like to view a posted item's details—description, lender info, date, etc.~~
- ~~14. As a borrower, I would like to favorite a posted item to save it for later.~~
- ~~15. As a borrower, I would like to see a list of all my favorited items.~~
- ~~16. As a borrower, I would like to select dates while making an item reservation.~~
- ~~17. As a borrower, I would like to make a reservation to borrow an item.~~
18. As a borrower, I would like to view my borrowing history.
- ~~19. As a borrower, I would like to receive a notification one day prior to my borrowing deadline.~~
- ~~20. As a borrower, I would like to view reservations that are pending, i.e. reservations that have not been approved/rejected yet.~~

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- 21. As a borrower, I would like to rate and review an item I have borrowed.
- 22. As a borrower, I would like to see a map view of items up for borrowing near me (if time allows).
- ~~23. As a borrower, I would like to create an item request for an item I want to borrow that is not listed on the site.~~
- ~~24. As a borrower, I would like to edit/delete my item request.~~
- ~~25. As a borrower, I would like to be notified when a lender has linked one of their posted items to my item request.~~
- ~~26. As a lender, I would like to link one of my items to an existing item request.~~
- ~~27. As a lender, I would like to post an item with a price and assign it to predefined categories.~~
- ~~28. As a lender, I would like to add a thumbnail image and multiple preview images to my posted item.~~
- ~~29. As a lender, I would like to edit/delete my posted item.~~
- ~~30. As a lender, I would like to set up/edit my posted item's calendar.~~
- ~~31. As a lender, I would like my calendar to be automatically updated when an item reservation is made, approved or denied.~~
- ~~32. As a lender, I would like to view the list of borrowing requests for my posted items.~~
- ~~33. As a lender, I would like to be notified when a borrower has requested to borrow my item.~~
- ~~34. As a lender, I would like to be able to accept or deny a borrower's request.~~
- 35. As a lender, I would like to view my lending history.
- ~~36. As a borrower/lender, I would like to see a list of all my approved and active reservations, and update the transaction status timeline whenever I receive/give away and return/get back items (similar to viewing and updating the tracking status bar of a package delivery from FedEx).~~
- 37. As a lender, I would like to receive payment from a borrower for lending my item to them (if time allows).

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38. As a lender, I would like to reimburse a borrower for returning my item to me (if time allows).

39. As a user, I would like to be notified when another user wants to initiate a conversation with me.