LettuceCOOK

Team 30 - Sprint 1
Planning Document
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Sprint Overview

During this sprint we aim to complete the first 10 user stories of our Android app. During the course of this sprint, we will have to create the basic User Interface of our app and build on the first few features such as login and joining households. We will also set up an environment, database and server for LettuceCOOK to enable real time updates for all the members in the household.

Scrum Master

Rushank Jhanjaria

Meeting Plan

Monday, Wednesday, Friday @ 5:30 pm

Risks and Challenges

One of the biggest challenges during this sprint would be to get a good environment setup because that is what our app will be primarily built on. We will have to connect all of our different components like the client, server and database properly, so that we do not face any issues regarding the database connectivity in the later sprints. Another challenge for us would be to be able to update our grocery list in real time, so that the grocery list is updated for all members of the household without having to refresh the app.

Current Sprint Detail

User Story #1

As a user, I would like to register for a LettuceCOOK account so that I can use the services provided by the application.

#	Description	Estimated Time	Owner
1	Create a UI panel to display a form with four fields - enter username, email, enter password and confirm password.	2 hours	Alisha
2	Clicking the signup button redirects the user to the page which displays household invites.	2 hour	Alisha
3	Clicking the signup button adds a new user into the data class after validating the uniqueness of the username, USERS.	2 hour	Alisha
4	Unit Test - Check whether the username is unique and both the passwords match	1 hour	Priyansh

Acceptance Criteria:
1. Given that the app opens successfully, the UI panel should be easy to use and look minimalistic.
2. Given that all the details have been entered and the submit button has been clicked, the user account must be created and he should be successfully logged in and redirected to the page that displays household invites.
3. Given that the user's username is not unique, an error message should be shown and the user should be able to re-enter their username.

User Story #2

As a user, I would like to be able to login and manage my LettuceCOOK account.

#	Description	Estimated Time	Owner
1	Create a UI panel to display a form with two fields - enter username and enter password	2 hours	Alisha
2	Clicking the login button redirects the user to the stock page if he is already in a household.	1 hour	Alisha
3	If not in a household, the user must be redirected to the page which displays household invites.	1 hour	Rushank
4	Unit Test - Check whether the password given by the user matches the password stored in the database.	2 hour	Alisha

Acceptance Criteria:

1. Given that this page loads properly, The UI Panel should look clean and there should be a forgot password button in case the user forgets their password.
2. Given that the user fills in the username, the password, and clicks on the login button, the user, if a part of a household, is taken to the stock page. If not, they are redirected to the page which displays household invites.
3. Given that the user is successfully logged in, and in a household the database is requested for all the details related to the household and the stock page is populated.
4. Given that the user enters the wrong password, it should display as an error message and prompt the user to enter the details again.

User Story #3

As a user, I would like to be able to logout

#	Description	Estimated Time	Owner
1	Create a button that lets the user logout on clicking it	2 hours	Aditya
2	Design a pop up comes up which asks you to confirm your decision	1 hour	Aditya
3	Redirect User to the login page	1 hour	Aditya

Acceptance Criteria:
1. Given that any page loads correctly, the logout button should be easy to find on any given page. It will be located in the side panel.
2. Given logout button is clicked, then a pop up shows up which asks you to confirm your decision. Then if you decide to go ahead with it, then you will be logged out, otherwise, you will be taken back to the page you were previously on.
3. Given this button is clicked, then the user is redirected to the login page.
4. Given that the user logs out, no data can be requested from the database as all the data requires validation.

User Story #4
As a user, I would like to create a new household.

#	Description	Estimated Time	Owner
1	Be able to search for users and add them to the household created	3 hours	Alisha
2	Invite users to the household on clicking the invite users	3 hours	Alisha
3	Add the members to the household and the household to the list of households in the backend	2 hours	Alisha
4	Unit Test - Check whether the household name is unique	1 hour	Alisha

Acceptance Criteria:
1. When finding for users to add to a household, then there should be a drop down showing all the users, which should show "no users found" if there is no username in the database with the name entered by the user.
2. Given that the username is searched by the user it should not be case sensitive.
3. Given that the invite button is clicked, then all the invited users should be members in the household.
4. Given that a new household is created, all users get a notification on getting added to a house.

User Story #5

As a user, I would like to edit my credentials.

#	Description	Estimated Time	Owner
1	Create a button in the sidebar that allows the user to reset his username	1 Hour	Aditya
2	Create a button in the sidebar that allows the user to reset his password	1 Hour	Aditya
3	Overwrite the previously stored credentials in the firebase database	2 Hours	Priyansh
4	Unit Test - Make sure that the new username is not similar to any of the current users.	1 Hour	Priyansh

Acceptance Criteria:
1. Given that the button is implemented properly, when the user taps the button to change the username or password, then they should be able to change their information.
2. Given that the button is implemented properly, when the user taps on the button to change a credential, then the user will be redirected to an appropriate page.
3. Given that the edit credentials functionality is properly implemented, when the user changes their username, then they would have enter a name not currently in the database, and their current username is deleted from the database.
4. Given that the reset password functionality is implemented properly, when the user changes their password to a valid string, then the password should be accepted

User Story #6

As a user, I would like to invite other users to join my household.

#	Description	Estimated Time	Owner
1	Create UI display to display all users of the application, when setting up the household	4 hours	Aditya
2	Set up a search bar, to facilitate looking up users	2 hours	Aditya
3	Add a button, to invite the user	2 hours	Priyansh
4	Add a button, on Friends tab to invite users	2 hours	Priyansh
5	Send Notification to the invited person	3 hours	Priyansh
6	Unit Test - check for proper functioning	2 hours	Priyansh

Acceptance Criteria:
1. Given that the page is loaded properly, the UI for the page should be minimalistic and let the user send invites to multiple users at a time.
2. Given that the users want to search for users, they should be able to search for the people they want to add into their household.
3. Given that users want to add users after setting up the household, the Friends Tab is set up we tend to add an invite user button.
4. Given that a user selects the people to join the household, all of them should get a join invite that should give them access to the household.

User Story #7

As a user, I would like the option to leave a household or join another.

#	Description	Estimated Time	Owner
1	A button in the sidebar that allows the user to leave a household	1 hour	Rushank
2	A pop up to confirm the action	1 hour	Rushank
3	The user's name has to be removed from the list of members of the household	3 hours	Rushank & Alisha
4	A notification to the members of the household if a member leaves the household.	2 hours	Rushank & Aditya

Acceptance Criteria:
1. Given that the user clicks on the side bar, the user has an option to click a button to enable the functionality to leave a household.
2. Given that the user decides to leave a household, a pop-up is shown to confirm the action so a user does not accidentally leave the household.
3. Given that user is removed from the household in the database, they should not have access to any of the data related to the household.
4. Given that a member leaves a household, the other members should get a notification to inform them that a member has left.

User Story #8

As a user, I would like to accept any household join requests so that I can enter an existing household.

#	Description	Estimated Time	Owner
1	A UI view to look at all invites from different households	3 hours	Rushank & Alisha
2	A button to join a household and one to decline.	2 hour	Rushank
3	A confirmation pop-up.	1 hour	Aditya
4	A notification sent to member of a household if a new member joins the household	2 hours	Rushank & Alisha

Acceptance Criteria:
1. Given that a user is not a part of a household yet, he has the option to view his current invites or create his own household.
2. Given that a user accepts the request, he gets access to all the data related to the household and on the back end gets added to the household list of members.
3. When he declines the request a confirmation pop is shown.
4. A notification must be sent to the members if the user accepts or declines the invitation.

User Story #9

As a user, I would like to have a "forgot password" button so that I can access my account even if I forget my password.

#	Description	Estimated Time	Owner
1	Click the "forgot password" button	1 hour	Aditya
2	A pop-up form prompts the user for email.	2 hour	Aditya
3	link sent to the given email address which redirects to a reset password page	3 hours	Aditya & Rushank
4	Here you can update the password for your username	3 hours	Aditya

Acceptance Criteria:
1. Given this page loads correctly, the forgot password button should be easy to find on the login/sign up page.
2. Given that the email address is entered in the pop-up prompt there is a check if it exists in the database and an email is sent with a reset link.
3. Given that the reset link in the email is clicked, it takes you to the reset password page where a user can reset his password seamlessly.
4. Once password has been reset successfully, user must be redirected to the login page where they can login with the reset credentials.

User Story #10

As a member of a household, I would like to be able to update the grocery list so that other members of the household are aware of any updates and have a refreshed stock.

#	Description	Estimated Time	Owner
1	Create a checklist of grocery items that is editable by the members of the household	4 Hours	Aditya
2	Make a toggle button to enable and disable editing for that person	2 Hours	Aditya
3	Allow real time editing for everyone in the household	6 Hours	Rushank
4.	Allow commenting on the grocery items by the other members	3 Hours	Rushank & Alisha
5	Allow people to tick off the items from the list	2 Hours	Alisha

Acceptance Criteria:
1. Given that the real time updates work properly, when the user wants to see the grocery list, then they should be able to see the most recent and updated one.
2. Given that the checklist is implemented properly, when the user presses the edit button, then they should be able to edit the document.
3. Given that the checklist is implemented properly, when the user does not toggle the edit button, then they should not be able to edit the document.

4. Given that the checklist is implemented properly, when the user wants to enter more data to the grocery list, then they should be allowed to do so without getting a warning for the size of the grocery list.
5. Given that the grocery list is implemented properly, when the user wants to see all the items on the grocery list, then they should be able to by scrolling down.
6. Given that the grocery list is implemented properly, when the user takes an item off the grocery list, then the item should be transferred to the available stocks.

User Story #11

As a member of a household, I would like to receive notifications when other household members update to the grocery list so that I am aware of recent activities in the household.

#	Description	Estimated Time	Owner
1	Every change made to the household will send out a notification. For e.g., a change in grocery list or stock will send a notification	2 Hours	Priyansh & Rushank
2	Everyone but the person making the change will get a notification	2 Hours	Priyansh
3	If the same screen is open on another user's phone, he will not get a notification. e.g., if someone is making changes to the stock and another person is also viewing the stock, he will not get a notification.	3 Hours	Priyansh & Rushank
4	Users also get a notification when a change is made to their account	1 Hours	Priyansh

Acceptance Criteria:
1. Given that the notifications are properly implemented, when anyone makes a change in the household, then all the other users should get a notification.
2. Given that the notifications are implemented properly, when the notifications are delivered, then the notifications should be brief but descriptive.
3. Given that the notifications are implemented properly, when users make a lot of changes, then the other users should not be bombarded with a lot of notifications within a short time span.

4. Given that the notifications are implemented properly, when anyone makes a change in the household, then all the other users should get a notification describing the change.
5. Given that the notifications are implemented properly, when a change is made to the user's account, then the user receives a notification and an email.

Remaining Backlog:
Functional Requirements

1. ~~As a user, I would like to register for a LettuceCOOK account so that I can use the services provided by the application.~~
2. ~~As a user, I would like to be able to login and manage my LettuceCOOK account.~~
3. ~~As a user, I would like to have a "forgot password" button so that I can access my account even if I forget my password.~~
4. ~~As a user, I would like to create a new household.~~
5. ~~As a user I would like to edit my credentials.~~
6. ~~As a user, I would like to invite other users to join my household.~~
7. ~~As a user, I would like to accept any household join requests so that I can enter an existing household.~~
8. ~~As a user, I would like the option to leave a household or join another.~~
9. ~~As a user, I would like to be able to log out.~~
10. ~~As a member of a household, I would like to be able to update the grocery list so that other members of the household are aware of any updates and have a refreshed stock.~~
11. ~~As a member of a household, I would like to receive notifications when other household members update to the grocery list so that I am aware of recent activities in the household.~~
12. As a member of a household, the notification I will receive will contain information about what change has been made to the stock and who has made the change to it.
13. As a member of a household, I would like to receive notifications when a friend household asks me for ingredients or invites me over.
14. As a member of a household, I would like the application to add the ticked off items from the grocery list to go into the current stock so that it avoids the hassle of manually adding the items.
15. As a member of a household, I would like to delete items from the grocery list so that I can undo any items which were added accidentally.
16. As a member of a household, I would like to see the current stock of groceries so that I am aware of the groceries available.

17. As a member of a household, I would like the application to prompt me to add an item to the grocery list if there is none of it left in the stock.
18. As a member of a household, I would like to see other nearby households as suggested friends so that I can later connect with them.
19. As a member of a household, I would like to send other households friend requests so that I can connect and talk with them.
20. As a member of a household, I would like to request ingredients from households in my friend's list.
21. As a member of a household, I would like to invite other users to my house for a meal together.
22. As a member of a household, I would like to search for recipes based on the items I have chosen from my stock.
23. As a member of a household, I would like to know the nutritional breakdown of the recipe so that I can maintain a healthy lifestyle.
24. As a member of a household, I would like to know if there are any missing ingredients for the recipes suggested to me.
25. As a member of a household, I would like to request ingredients from the households in my friend's list.
26. As a member of a household, I would like the option to add the missing ingredient to my grocery list so that I have that ingredient the next time I try to make the recipe.
27. As a member of a household, I would like to save any of the suggested recipes so that I can refer to them in the future without having to go through the entire process.
28. As a member of a household, I would like to see all the recipes I have saved so that I can make them again.
29. As a member of a household, I would like the application to prompt me to update the current stock of the ingredients used when I select to make a recipe so that the stock is not outdated.
30. As a member of a household, I would like to filter recipe search results based on its nutritional value and benefits.
31. As a member of a household, I would like to be able to not receive notifications when updates have been made to the stock.
32. (if time allows) As a member of a household, I would like to share the recipe I make with all my friend households so that they can see what I am cooking and how am I cooking it.
33. (if time allows) As a member of a household, I would like to see the recipes my friend households shared with me so that I get to know different recipes.
34. (if time allows) As a member of a household, I would like to click on a recipe from the feed to check whether I have the required ingredients for it.

Non-Functional:

1. Response time of the app should be between 500 to 600 ms
2. App should be able to scale efficiently on different popular screen sizes
3. Passwords should be stored securely.