

# AllinWallet

All-in-one Personal Finance App

## Team 26 Sprint 1 Planning Document

### Team Members

Junyi Zhang, Ray Chen, Rohith Sridharan, Shaan Hoda, Yufei Xu

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# Sprint Overview

The primary goals of Sprint 1 will be setting up the development environment of both front and back end, as well as building foundational functionalities of the app. We are still in the process of finding the most applicable frameworks to implement some of the features of this app. By the end of this sprint, we would have made most of the implementation decisions and the app will have the majority of its basic functions working properly.

**Scrum Master:** Yufei Xu

**Meeting Plan:** Saturdays 3:30pm to 5:30pm

## **Risk and Challenges:**

The challenges we will face in the first Sprint is that some of the members are not familiar with the frameworks we are going to use, so we need to spend some time helping them figuring out how to set up the environment and how to use these frameworks. A significant amount of time will be spent on learning. So the challenges here is finding the best resource to learn the frameworks as soon as possible then try to finish all the user stories we are going to implement in this sprint on time. Another challenge here is that this is our first sprint and we don't know the efficiency we will have for this project, so it would be challenge for us to balance our time between tasks and finish all the user stories we plan. Also, because this sprint will have generally involve setting things up, we will have some risks such as choosing the wrong frameworks, as we are not familiar with all of the frameworks available to us. There will be the risk of losing time if we select an incorrect framework and change them during this sprint. Also, the database structure we are planning to implement in this sprint will be changed as we move on to the future tasks, since we may add more fields to the user data and the purchases data.

# Current Sprint Detail

## User Story #1

As a user, I would like to register for an AllinWallet account so that I can synchronize my profile and data across devices.

#	Description	Estimated Time	Owner
1	Set up back end server	3 Hrs	Yufei
2	Set up database	3 Hrs	Yufei
3	Build GUI for account registration	4 Hrs	Ray
4	Implement functionality to add a new account in the back end	4 Hrs	Shaan
5	Implement ability to create an account in the front end	4 Hrs	Ray
6	Test account registration functionalities	1 Hr	Rohith

### Acceptance Criteria:

1. Given that the back end server and database are implemented correctly, the developer should have access to the server and database, and have rights to add functionality to both the server and database.
2. Given that the UI for account registration is implemented correctly, the user should have fields to enter their username, password, and email. And the password enter field should be hidden.
3. Given that the functionality for creating accounts in the back end is implemented correctly, when the client sends the creating accounts request, the back end should have ability to create and store the user data.
4. Given that the functionality for creating accounts in the front end is implemented correctly, when the user finishes entering registration information, the client should be able to check if all the information is valid and the ability to send account creation request if all the information is valid.

## User Story #2

As a user, I would like to log in with a username and password.

#	Description	Estimated Time	Owner
1	Build GUI for login	4 Hrs	Junyi
2	Implement functionality to authenticate users in the back end	4 Hrs	Shaan
3	Implement ability to log in in the front end	4 Hrs	Junyi
4	Test Login functionalities	1 Hr	Rohith

### Acceptance Criteria:

1. Given that the UI for login is implemented correctly, the user should have fields to enter their login information and a button for the user to log in.
2. Given that the implement functionality for login in the back end is implemented correctly, the database should have the ability to receive a login request and send the data to the server. And the server should have the ability to check if the password and username match. If they match, the server should change the login status for user and send the results to front end.
3. Given that the implement ability to log in in the front end is implemented correctly, the client should have the ability to send a login request with users' username and password to the server. When the server return is a success, the client shows the user the main page, and when the server returns an error, the client should ask the user to check their password and try to log in again.

## User Story #3

As a user, I would like to log out of the app so that I can prevent other people from accessing my profile.

#	Description	Estimated Time	Owner
1	Build GUI for start screen/landing page	4 Hrs	Rohith
2	Implement functionality to change user status in the back end	4 Hrs	Yufei
3	Implement ability to log out in the front end	4 Hrs	Rohith
4	Test Logout functionalities	1 Hr	Ray

### Acceptance Criteria:

1. Given that the UI is implemented correctly the user should be able to navigate to the logout page properly and select the button
2. Given that the logout back end functionality is implemented correctly, the database should receive the request and send it to the server. The credentials should be removed from the server status to no longer logged in.
3. Given that the logout ability is implemented correctly in the front end, the user should be able to select the logout button, therefore prompting the screen to go back to the main page.

## User Story #4

As a user, I would like to add my email to my AllinWallet account so that I can reset my password through email.

#	Description	Estimated Time	Owner
1	Set up mailer to send emails to users	3 Hrs	Yufei
2	Add button to reset password	3 Hrs	Junyi
3	Implement functionality to update password in the back end	3 Hrs	Shaan
4	Implement ability to reset password in the front end	4 Hrs	Ray
5	Test password reset functionalities	1 Hr	Junyi

### Acceptance Criteria:

1. Given that the mailer is set up correctly, once the user requests a password reset the request should go to the server and send an action for the client to receive an email that will allow them to change their password
2. Given that a button is there to reset the password and working correctly, there will be a proper button implemented in place that once clicked will allow for the reset password functionality.
3. Given that reset password functionality in the backend is working correctly, once the user selects reset password, the database should have the ability to modify the clients password, once it is reset by the mailer
4. Given that the reset password functionality in the front end is working properly, the client should be able to send the reset password request to the server, if this is a success the client should have received an email to reset their password.

## User Story #5

As a user, I would like to enter the amount of money I have just spent and create a purchase in my account profile.

#	Description	Estimated Time	Owner
1	Build GUI for purchase creation	4 Hrs	Ray
2	Implement functionality to modify user data (add purchases) in the back end	3 Hrs	Shaan
3	Implement ability to add purchases in the front end	4 Hrs	Ray
4	Implement functionality to synchronize user data after adding a purchase	3 Hrs	Yufei
5	Test purchase creation functionalities	1 Hr	Junyi

### Acceptance Criteria:

1. Given that the GUI for purchase creation is functional, when the user attempts to add a purchase, the GUI should ask the user to enter the amount of purchase and choose a category for the purchase (i.e. grocery, clothing etc.). The user has the option to change the default title (generated by the app) and time tag (present time by default).
2. Given that the GUI for purchase creation is functional, when the user is done with adding a purchase, the newly added purchase should be correctly displayed.
3. Given that the purchase creation functionality is working properly in the front end, when a purchase is added by the user, the purchase should be stored in a data structure in the front end client. The purchase should be easily accessed by other functionalities of the client.
4. Given that the user data synchronization functionality is working properly, when a purchase is added by the user, the purchase should be prepared and sent to the server in JSON format.
5. Given that the user data modification functionality is working properly in the back end, when the client sends a request to add purchases, the server should query the database to update the user data belongs to that specific user.

## User Story #6

As a user, I would like to add a title to my purchases.

#	Description	Estimated Time	Owner
1	Build the GUI to edit existing purchases.	3 Hrs	Ray
2	Implement functionality to modify user data (edit existing purchases) in the back end	3 Hrs	Shaan
3	Implement ability to add a title to existing purchases in the front end	3 Hrs	Ray
4	Implement functionality to synchronize user data after modifying a purchase	2 Hrs	Yufei
5	Test purchase modification functionalities	1 Hr	Junyi

### Acceptance Criteria:

1. Given that the GUI to edit existing purchases is built and working properly, when the user attempts to edit a existing purchase, the correct and relevant data of the purchase should be displayed in a popup window. The user can then choose to proceed with the modification or not.
2. Given that the purchase modification functionality is working properly in the front end, when a purchase is modified by the user, the underlying data structure of the client should also have the corresponding data updated.
3. Given that the user data synchronization functionality is working properly, when a purchase is modified by the user, the client should send a data update request to the server in JSON format.
4. Given that the user data modification functionality is working properly in the back end, when the client sends a request to modify purchases, the server should query the database to update the user data belongs to that specific user.



## User Story #7

As a user, I would like to add categories to my newly created purchases.

#	Description	Estimated Time	Owner
1	Add to the GUI for editing existing purchases (adding visibility for categories)	3 Hrs	Ray
2	Implement functionality to modify user data (edit existing purchases) in the back end	3 Hrs	Shaan
3	Implement ability to add a category to existing purchases in the front end	2 Hrs	Ray
4	Implement functionality to synchronize user data after modifying a purchase	2 Hrs	Yufei
5	Test purchase modification functionalities	1 Hr	Junyi

### Acceptance Criteria:

1. Given that the GUI to edit existing purchases is built and working properly, when the user attempts to edit a existing purchase, the correct and relevant data of the purchase should be displayed in a popup window. The user can then choose to proceed with the modification or not.
2. Given that the purchase modification functionality is working properly in the front end, when a purchase is modified by the user, the underlying data structure of the client should also have the corresponding data updated.
3. Given that the user data synchronization functionality is working properly, when a purchase is modified by the user, the client should send a data update request to the server in JSON format.
4. Given that the user data modification functionality is working properly in the back end, when the client sends a request to modify purchases, the server should query the database to update the user data belongs to that specific user.

## User Story #8

As a user, I would like to create a weekly, monthly, or annual budget.

#	Description	Estimated Time	Owner
1	Build a GUI for the weekly/monthly/annual budget	4 Hrs	Rohith
2	Implement functionality to produce a weekly, monthly, and/or annual budget in the back end	4 Hrs	Shaan
3	Implement ability to produce a budget in the front end	4 Hrs	Rohith
4	Test the functionalities of the budgets	2 Hr	Ray

### Acceptance Criteria:

1. Given that the UI for being able to create a budget is implemented correctly, the user should have the ability to set their financial goals/limits.
2. Given that the budget functionality in the back end is working correctly, once the user chooses his or her spending limits/goals, the database should have the ability to record the budget data and generate the list of produced budgets.
3. Given that the budget functionality in the front end is working correctly, the client should be able to send the getBudgets list request to the server, and if this is a success, the client should receive the list of budgets.

## User Story #9

As a user, I would like to see my weekly, monthly, or annual spend analysis report.

#	Description	Estimated Time	Owner
1	Build GUI for generating the analysis report	4 Hrs	Shaan
2	Implement functionality for getting purchase list in the back end	3 Hrs	Shaan
3	Implement ability for dealing the purchase data in the front end	3 Hrs	Ray
4	Implement ability to generate different type of report in the front end	3 Hrs	Ray
5	Test generating analysis report functionalities	1 Hr	Junyi

### Acceptance Criteria:

1. Given that the UI for generating the analysis report is implemented correctly, the user should have the button for them to see the analysis report.
2. Given that get purchase list functionality in the back end is working correctly, once the user selects purchase list button, the database should have the ability to deal the purchase data and generate the purchase list.
3. Given that deal the purchase data functionality in the front end is working correctly, the client should be able to send the get purchase list request to the server, if this is a success, the client should receive the purchase list.
4. Given that deal the generate different type of report functionality in the front end is working correctly, the client should be able to send the generate different type of report request to the server, if this is a success, the client can be able to choose the type of report they want.

## User Story #10

As a user, I would like the ability to know how many people are currently using this app.

#	Description	Estimated Time	Owner
1	Build GUI to see the number of active users of the application	3 Hrs	Junyi
2	Implement functionality for getting the number of active users of the application in the back end	3 Hrs	Shaan
3	Implement ability to generate the number of active users of the application in the front end	3 Hrs	Junyi
4	Test active users functionalities	1 Hr	Ray

### Acceptance Criteria:

1. Given that the UI for active users is implemented correctly, the user should have the button for them to see the active users and they should be able to navigate to the active users page properly.
2. Given that the functionality for active users in the back end is implemented correctly, when the client send getting active users request, the back end should have ability to create and deal with the data of the active users.
3. Given that the functionality for active users in the front end is implemented correctly, the client should be able to sent getting active users request to the server, if this is a success, the client should receive the information of the active users.

## Remaining Backlog

- ~~1. As a user, I would like to register for an AllinWallet account so that I can synchronize my profile and data across devices.~~
- ~~2. As a user, I would like to log in with a username and password.~~
- ~~3. As a user, I would like to log out of the app so that I can prevent other people from accessing my profile.~~
4. As a user, I would like the ability to permanently delete my account profile.
5. As a user, I would like the ability to report issues to the project developers.
6. As a user, I would like the ability to backup and restore my data so that I can undo any potential mistakes or prevent data loss.
- ~~7. As a user, I would like to add my email to my AllinWallet account so that I can reset my password through email.~~
8. As a user, I would like to set a picture as my profile avatar and change it if I wish.
9. As a user, I would like to use this application with a language of my choosing.
10. As a user, I would like to choose the currency I am using.
11. As a user, I would like to see some money saving tips while the app is on the loading screen.
12. As a user, I would like to have many different themes to choose from so that I can customize the look of the app.
13. As a user, I would like to quickly access the app features that I use the most.
- ~~14. As a user, I would like to enter the amount of money I have just spent and create a purchase in my account profile.~~
- ~~15. As a user, I would like to add a title to my newly created purchase.~~
- ~~16. As a user, I would like to choose a category for my newly created purchase.~~
17. As a user, I would like to add location and time tags to my purchase.
18. As a user, I would like to take a picture of the sales receipt and add it to my purchase.
19. As a user, I would like to delete unwanted purchases that I entered in accidentally.
- ~~20. As a user, I would like to create a weekly, monthly, or annual budget so that I will be notified when I'm about to go over/exceed my budget.~~
- ~~21. As a user, I would like to see my weekly, monthly, or annual spend analysis report.~~
22. As a user, I would like to be able to sort the purchases in my spend analysis report by time/category/title/cost.
23. As a user, I would like to see a spend analysis report for a specific period of time.

24. As a user, I would like to add recurring charges (e.g. cell phone bills) to my profile so that those spendings appear in my spend analysis report automatically.
25. As a user, I would like to see what category I have spent money on the most.
26. As a user, I would like to view my purchases on a calendar so that I can see the amount of money I spend each day.
27. As a user, I would like the ability to search a specific purchase by title.
28. As a user, I would like to limit my search results by category and/or range of cost/time.
29. As a user, I would like the start screen/landing page of the app to display as much relevant information (e.g. budget, income, spending, etc) as possible so that I don't have to navigate to other places for these information.
30. As a user, I would like to see a graph visualization (e.g. percentage bar, pie chart) of categories that I have spent money on.
31. As a user, I would like to know how much money I was under my budget for a giving period of time.
32. As a user, I would like to know if my money spending habits have improved since I started using the app.
33. As a user, I would like to share my activities and progress I made on social media.
- ~~34. As a user, I would like the ability to know how many people are currently using this app.~~