ApartMate

Team 3 - Sprint 1 Planning Document
Group members - Adrian Raj, Akshay Srinivasan, Ian Rettig, Risheek
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Sprint Overview

During this sprint we will focus on setting up the basics of our app and the systems that
we will use the implement all the features. We will be setting up a git repo for all of the
developers to use for coding purposes. We also will be making the basic backbone of
the front end and the backend of the app. Both will be programmed using the
NativeScript framework. JavaScript will be used in programming the User Interface
while the backend will be programmed using Node.js. We also will have to set up the
FireBase database with all of the relations for the data that will be stored and accessed
with the server.

SCRUM master: Ian Rettig

Meeting Plan: Tuesdays 8:00 pm - 9:00 pm and Friday 8:00 pm - 9:00 pm

Risks and Challenges:
Some challenges we will face during the sprint involve the initial setup of the code, the
set up and use of the git repo, and group teamwork. A majority of the time will be spent
with code style and documentation of what we are doing, along with setting up the initial
classes/objects that will be used in the backend. There also will be significant time spent
designing and making the user interface. Some risks that we face during this sprint
include following through with all of the user stories that we have decided to tackle. We
anticipate some delays with the coding as we decide the best way to structure and
make modules for the back end system. This probably will have multiple revisions
throughout the sprint.

Current Sprint Detail

User Story 1:
As a user, I would like to login, so that the app is person centered

Task Table:

Task Number	Description	Time	Task Owner
1	Create a login page	3	Siddhant
2	Encrypt the User's password	1	Ian
3	Unit Test - correct and incorrect input, unknown email, incorrect password attempt limits	2	Risheek

Acceptance Criteria:

● Given that user login and authentication is functional, a user can easily access the login page for ApartMate, and enter their login credentials.
● The user's login details will be authenticated using FireBase.
● Given that user login and authentication is functional, a user's password will be encrypted before a login is considered a success or failure.
● Given that a unit test has been created to test for incorrect input, then the user should be able to receive feedback.

User Story 2:
As a user, I would like to register for an ApartMate account, so that I can use the app.

Task Table:

Task Number	Description	Time	Task Owner
1	Create a User Model on the Node.js backend	2	Adrian/Ian
2	Create User JSONs in Firebase	1	Adrian/Ian
3	Create Sign Up page in the UI	2	Akshay
4	Store the encrypted user data on the database	1	Adrian/Ian
5	Connect the frontend to backend and Firebase to complete the signup process	2	Adrian/Ian
6	Unit test with correct and incorrect input	2	Adrian/Ian

Acceptance Criteria:

- Since the User model is functional, the user can be instantiated in the backend.
- The user instance can be inserted into the database.
- The user can view a page to securely enter their details and have it stored in the backend.
- User information can be sent to the server and to the database securely.
- The registration can be tested with different inputs and should successfully allow registration.

User Story 3:
As a user, I would like to send/receive messages to potential roommates,so that I can find a roommate

Task Table:

Task Number	Description	Time	Task Owner
1	Create a Message page	3	Risheek
2	Store time for messages received/sent	1	Adrian
3	Store message history on the device	2	Ian
4	Unit test - Use two devices to see if messages are sent/received properly	1	Siddhant

Acceptance Criteria:

- The user should be able to send messages to their potentially matched roommates.
- The message history should be stored locally.
- Store the time of the messages sent/received.
- Check if messages are sent/stored/received using two different devices

User Story 4:
As a user, I would like to change my password, so that I don't have to remember a complicated one from recovered password.

Task Table:

Task Number	Description	Time	Task Owner
1	Create a Reset password button in profile.	1	Akshay
2	Create a reset password form	2	Akshay
3	Create a reset password function in server.	2	Ian/Adrian
4	Update the database	1	Ian/Adrian
5	Test to see if the passwords get changed.	1	Ian/Adrian

Acceptance criteria:
- You should be able to enter a new password.
- You have to type your old password and make sure that you are the owner of the account.
- The new password should be stored in the database.
- The user should be able to log in with the new password.

User Story 5:
As a user, I would want to set themes for my account, so that I can reflect my world view.

Task Table:

Task Number	Description	Time	Task Owner
1	Create a toggle button in profile to switch between a dark and light theme	1	Risheek
2	Store the theme preference locally	4	Siddhant, Akshay
3	Unit test to check whether the themes are being switched properly	3	Siddhant, Akshay, Risheek

Acceptance Criteria:
- A toggle button must be visible in profile
- The user should be able to switch their app themes between dark and light
- The changes must be retained once the quits and re-opens the app

User Story 6:
As a user I would like to verify my email, so that nobody else can use my email in that app.

Task Table:

Task Number	Description	Time	Task Owner
1	Verify user's email	1	Adrian
2	Disallow users to use an already verified email	1	Siddhant
3	Unit test - Verify using a test email account	1	Risheek

Acceptance Criteria:

- The user has to verify his/her email in order to use the application
- The user should get a verification email on his/her email id
- The user should get an error if he/she is trying to use an already verified email
- Test if the verification works using a test email id

User Story 7:
As a user, I would like to upload profile picture, so that I can attract possible roommates.

Task Table:

Task Number	Description	Time	Task Owner
1	Put interface option on the app.	1	Akshay/Risheek
2	Create location to store the image on a file server.	2	Ian/Adrian
3	Link the database and server to the file server.	1	Ian/Adrian
4	Create data transfer to send the image to viewers of the account.	2	Ian/Adrian

Acceptance Criteria:
- The user should be able to see their own picture on their profile area.
- Another user should be able to see the picture of the user they are chatting with in the chat message box.
- The picture should be stored on a file storage server.

User Story 8:
As a user, I would like to recover my password, so that I do not need to create a new account every time I forget my password.

Task Table:

Task Number	Description	Time	Task Owner
1	Create a button for *Forgot Password*	1	Akshay
2	Create a page that asks for the registration email ID	1	Risheek
3	Verify that the email ID is valid and has an account associated with it	1	Ian/Adrian
4	Send an email to the user with a link to reset the password	1	Ian/Adrian
5	Store the new password in the database after encryption	1	Ian/Adrian
6	Test the feature and make sure the password can be reset and updates in the database	2	Adrian/Siddhant

Acceptance Criteria:
- The user should be able to click on the *Forgot Password* button and be directed to a new page to enter their email ID.
- The user should receive an email link to reset their password.
- The user should be able to successfully reset the password.
- The database should be updated accordingly.

User Story 9:
As a user, I would like to make my schedule, so that my roommates can see it.

Task Table:

Task Number	Description	Time	Task Owner
1	Make schedule using Google calendar Api	4	Akshay
2	Create UI for the schedule	1	Risheek
3	Test the schedule and see if it updates on the UI component	1	Siddhant

Acceptance Criteria:
- Use Google calendar Api to make/edit schedule.
- Create a button to open the schedule.
- View the calendar inside the apartment schedule.

User Story 10:
As a user I would like to create a profile, so that I can personalize my account.

Task Table:

Task Number	Description	Time	Task Owner
1	Create the class/object to store the profile information on the server memory.	2	Ian/Adrian
2	Create relations in the database for the profiles.	2	Ian/Adrian
3	Create user interface for creating the profile.	1	Akshay
4	Create mechanism to send the profile information to the server	2	Ian/Adrian
5	Let server parse the information, update the database, and sent confirmation back to user.	1	Ian/Adrian

Acceptance Criteria:

- View the profile creation part on the app.
- Let users input their information and see the reflected change on the database.
- Have other users see the information when looking at profiles.

User Story 11:
As a user, I would like to start a new chat, so that I can talk to someone that I know is using the app.

Task Table:

Task Number	Description	Time	Task Owner
1	Create button in message center to start a new chat.	1	Risheek/Siddhant
2	Create page to search for a user to chat with.	2	Risheek/Siddhant
3	Search the database for the user.	1	Ian/Adrian
4	Return confirmation if that user exists, and a button to start chat.	2	Ian/Adrian
5	Test to see if the search works and and starts a new chat with the user.	2	Ian/Adrian

Acceptance Criteria:
- Search should not show a user if the user does not exist.
- Search should show the user if a user with that email does exist.
- Clicking on the returned button will start a new chat.

User Story 12:
As a user, I would like to edit my profile, so that I can reflect recent changes

Task Table:

Task Number	Description	Time	Task Owner
1	Create UI to edit the use profile	6	Siddhant, Akshay, Risheek
2	Update the database with the updated profile changes	2	Adrian
3	Unit Test to see if the users are able to make changes to their profiles	1	Siddhant

Acceptance Criteria:
- UI must be present to edit the user profile
- The changes in the profile must be reflected in a future profile viewing
- The unit test need to be testing all the above criteria.

User Story 13:

As a developer, I would like to document the process and code.

Task Table:

Task Number	Description	Time	Task Owner
1	Code reviews and coding standards	2 each	Adrian, Akshay, Ian, Risheek, Siddhant
2	Progress reports	2 each	Adrian, Akshay, Ian, Risheek, Siddhant
3	Planning Documents	2 each	Adrian, Akshay, Ian, Risheek, Siddhant
4	Code documentation	2 each	Adrian, Akshay, Ian, Risheek, Siddhant

Acceptance Criteria:
- Team member is assigned and delivers a reasonable amount of work, that is code reviewed and follows coding standard
- Team member delivers work each week, along with a progress report describing their work..
- Team member should collectively work on participating in all the documents that needs to be submitted.

Remaining Project Backlog

1. ~~As a user, I would like to register for an ApartMate account, so that I can use the app.~~
2. ~~As a user, I would like to send/receive messages to potential roommates,so that I can find a roommate.~~
3. As a user, I would like to send/receive group messages to roommates, so that I can communicate with my roommates.
4. ~~As a user I would like to verify my email, so that nobody else can use my email in that app.~~
5. ~~As a user, I would like to login, so that the app is person centered.~~
6. As a user, I would like to surf for potential roommates, so that I can find one that matches me.
7. ~~As a user, I would like to recover my password, so that I do not need to create a new account every time I forget my password.~~
8. ~~As a user, I would like to change my password, so that I don't have to remember a complicated one from recovered password.~~
9. As a user, I would like to add items to the grocery list, so that I can remember at the store.
10. ~~As a user, I would like to make my schedule, so that my roommates can see it.~~
11. ~~As a user, I would like to view my roommate's schedules, so that I can plan things accordingly.~~
12. As a user, I would like to set up chores around schedules, so that I can share chores evenly.
13. As a user I would like to have a chore list on the home page, so that I can see them quickly.
14. As a user, I would like to filter the chore list in different ways, so that I can view my chores.
15. As a user, I would like to add receipts to a list, so that we can split the bill.
16. As a user, I would like to opt in/out of certain things on the receipt, so that I don't pay for things that aren't mine.
17. As a user, I would like to see the total I am required to pay for the month, so that I can pay my share..
18. As a user, i would like to set up time-based reminders to buy grocery for the apartment, so that things can be on a schedule.
19. As a user, i would like to set up location-based reminders to buy grocery for the apartment, so that I can remember to buy things when I can near where I can buy them.

20. As a user I would like to be able to rate my roommates, so that others know how they are as a roommate.
21. As a user, I would like to see the ratings of my potential roommates, so that I can choose a good one.
22. As a user, I would like to know my roommate's interests, so that I can know what they enjoy doing.
23. As a user, I would like to know my potential roommate's interests, so that I can try to match with them.
24. As a user, I would like to know what possessions of my roommate can be shared, so that I can use them.
25. As a user, I would like to share files or information in a quick and efficient manner, so that I can send them to everyone at once.
26. As a user, I would like to know birthdays of my roommates, so that I can celebrate with them.
27. As a user, I would like to know when my lease is about to end, so that I can sign another one.
28. As a user, I would like to know when I should start searching for a new roommate, so that I do not forget.
29. As a user, I would like to have emergency contact information of my roommates, so that I know who to call in an emergency.
30. As a user, I would like to be able to inform my roommates of my location with one click in case of an emergency, so that they can get help.
31. As a user, I would like to be able to have a roommate consensus system, so that I have a way to resolve conflict.
32. As a user, I would like to have a "Do Not" section, so that I can set boundaries with my possessions and respect my roommates' possessions.
33. As a user, I would like to have an electronic chore wheel, so that chores can be randomly assigned for fun.
34. As a user, I would like to know whether my roommates smoke or drink, so that I can choose my roommates accordingly.
35. As a user, I would like to have a free app that is applicable for both roommates and potential roommates, so that I know where to look.
36. As a user, I would like to know normally how late my roommate comes home everyday, so that I can plan around it.
37. As a user, I would like to upload profile picture, so that I can attract possible roommates
38. As a user, I would want to filter potential roommates,so that my roommate search is easier.
39. As a user I would like to create a profile, so that I can personalize my account.
40. As a user, I would like to edit my profile, so that I can reflect recent changes.

41. As a user, I would like to download files shared by my roommates with me.
42. ~~As a user, I would want to set themes for my account, so that I can reflect my world view.~~
43. ~~As a developer, I would like to produce thorough documentation at each step in the development process.~~
44. As an apartment lessor, I want to be able to post an apartment I own for lease, in order to tell potential lessees about my apartment. (if time allows)
45. As a user, I would like to link my social media account so that I seem more attractive to potential roommates. (if time allows)
46. As a user, I would like to share youtube links with all my roommates, so that they can view the video in the chat window. (if time allows)
47. As a user, I would like to see if others are typing in the group chat, so that I know they are responding. (if time allows)