4495 Applied Research - 002

Progress Report 2

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Week 06(Feb 09 – Feb 16)

Date	Number of Hours	Description of work done
Feb 09, 2025	2	Doing some design of the login and signup page and searching for the appropriate videos for my login and sign-up page.
Feb 10, 2025	4	Building the Login Page UI, followed a YouTube video, and also wrote the frontend.
Feb 11, 2025	3.5	Finish the sign-up page UI and wrote the frontend using flutter.
Feb 12, 2025	2	I've learned some new things about Firebase, I've never used Firebase before, so this is a new tool for me.
Feb 12, 2025	3	After checking some videos and knowledge, I decided to use Firebase instead of the MongoDB and NodeJS.
Feb 14, 2025	4	Creating my firebase account and set up the firebase structure.
Feb 17, 2025	6	Connecting my project with the firebase, at first, I cannot get the auto generated file from firebase, but then I tried a lot of times and checked from some videos and websites, I figured it out and connected the database.

Repo check in

This week, I worked on designing and developing the login and signup pages, following tutorials and implementing the frontend in Flutter. Since I was new to Firebase, I spent time learning its functionalities and ultimately decided to use it instead of MongoDB and Node.js. After setting up my Firebase account and configuring the structure, I faced challenges connecting it to my project, particularly with the auto-generated files. However, after multiple attempts and researching solutions, I successfully integrated Firebase with my project.

Week 07(Feb 17 – Feb 23)

Date	Number of Hours	Description of work done
Feb 17, 2025	4	Making the main page is not easy, I changed the design of the main page, since I want to implement the post first, so the most important thing is to display the list view from the database.
Feb 18, 2025	4	The list view is showing but the images are all the same, so I found that I need to integrate the post functionality to change / post the different images by user. I made the post page UI today.
Feb 19, 2025	3	I implement the post feature, but the image upload feature is still not working, I tried several times, but it's still not working, I can only take picture using the camera.
Feb 20, 2025	3.5	I cannot pick image from the phone's gallery, it took me a lot of time to figure this out, then finally, I found that I can directly download the

Date	Number of Hours	Description of work done
		image form phone's google, and save it to the gallery, and then my image upload works!!! So happy!
Feb 22, 2025	2	Working on the midterm report.
Feb 22, 2025	0.5	Update the worklog.
Feb 22, 2025	3	Prepare the Gantt chart, video setup instructions, and write my readme file.
Feb 23, 2025	4	I got some problem with my login page and the onboarding page. From the onboarding page, I cannot navigate to the login page, but if I remove the onboarding page, my signup is not working.....
Feb 24, 2025	4	Recording and clip the video.
Feb 24, 2025	2	Continue figuring out my problems and make it ready to submit.

Repo check in

This week is a busy week, I focused on implementing the post feature, ensuring the list view displayed correctly. I faced issues with image uploads, where only the camera worked, but later found a fix by saving images from Google to the gallery. I worked on the midterm report, updated my worklog, and prepared the Gantt chart, video setup, and README file. Towards the end of the week, I encountered navigation issues between the onboarding and login pages, which also affected signup. I spent time debugging these problems while recording and editing the project video before finalizing everything for submission.

Week 08(Feb 24 – Mar 2)

Date	Number of Hours	Description of work done
Feb 24, 2025	4.5	Add the edit profile page logic, add the preference

		page, the upload image is not included
Feb 25, 2025	4	Created the preference page .
Feb 27, 2025	2	Modify all the UI system.
Feb 28, 2025	5.5	Implemented the "Going" button feature to allow users to join events and reflect status in Fire store.
Mar 1, 2025	3.5	Created the "Collect" button feature to allow users to collect and uncollected posts.
Mar 2, 2025	2	Built the "My Events" page to display collected and upcoming events.

Repo check-in:

This week I make the going and collect working first, and create the profile page and edit profile page. I'm going to make the logic working next week and enhance my app UI again.

Week 09(Mar 3 – Mar 9)

Date	Number of Hours	Description of work done
Mar 3, 2025	4.5	Completed the "My Events" page, displaying collected and upcoming events correctly.
Mar 4, 2025	2	Added additional fields to the "Add Post" page (e.g., tags, event type, age range).
Mar 6, 2025	2	Fixed Firestore issues related to storing and retrieving post data.
Mar 7, 2025	3	Set up article content storage in Firestore and linked it to the home page.
Mar 8, 2025	2.5	Created the article detail page and connected it with the Firestore data.

| Mar 9, 2025 | 1.5 | Debugged data loading issues and improved article display formatting. |

Repo check-in:

My events page is done, and the list are displaying properly, and the article list and detail page are done. I got some issues about the article data loading but It works well now.

Week 10(Mar 10 – Mar 16)

Date	Number of Hours	Description of work done
Mar 10, 2025	3	Enabled profile image selection and upload to Firebase Storage. Linked the uploaded profile images to the user profile and display page(still not finished).
Mar 11, 2025	4.5	Create the bottom nav bar for the app.
Mar 12, 2025	4	Write python code to generate the user and posts.
Mar 13, 2025	4	Enhanced the "Add Post" page with improved validation and layout updates(date picker and duration picker).
Mar 14, 2025	2.5	Modified the signup page to include the username field and store it in Firestore.
Mar 15, 2025	3	Working on the chat feature now...

Repo check-in:

The bottom nav bar took me some time because I have to handle the relationship between the four pages. And the basic functions are done, I think the next maybe integrate the chatting and the mapping.