4495 Applied Research - 002

Progress Report

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Week 01 (Jan 08 – Jan 14)

Date	Number of Hours	Description of work done
Jan 12, 2025	2	Do research to have some ideas about the new project.
Jan 13, 2025	1	Discussed with friends about my ideas.

Repo check in

This week, I searched for the app ideas and discussed with some students and friends. I still don't know what to do and how to do it. Maybe I need more time to think about it.

Week 02 (Jan 15 – Jan 21)

Date	Number of Hours	Description of work done
Jan 15, 2025	2	Do research to confirm the technology hardness.
Jan 18, 2025	2	-Finish the draft proposal. -App VI design (color system, logo and slogan.)
Jan 19, 2025	1.5	Draw the Gantt chart.
Jan 20, 2025	3	Write the introduction and the proposal modification.
Jan 21, 2025	5	-UI design draft using Figma. -Made the proposal slides.

Repo check in

This week, I completed the project proposal, which includes the app's visual identity (VI) design, the proposal report, the proposal slides, and the UI design draft in Figma. I also created a draft prototype for my app.

Week 03 (Jan 22 – Jan 29)

Date	Number of Hours	Description of work done
Jan 22, 2025	1	Discuss the app proposal.
Jan 23, 2025	2	Revise the proposal and the Gantt chart.
Jan 24, 2025	1	Learn the flutter from youtube video.
Jan 26, 2025	4	Learn the flutter from youtube video.
Jan 28, 2025	2	Learn the flutter E-commerce app.

Repo check in

This week, I revised and submitted the project proposal. And I started to setup my project structure and folders. I actually have no idea about it, so I find a YouTube video to learn about it. And I plan to start building my app from next week.

Week 04(Jan 30– Feb 04)

Date	Number of Hours	Description of work done
Jan 30, 2025	5	Got some problems with the APG version and the JAVA SDK Version
Feb 02, 2025	3	Build the project structure, and tried the flutter native splash to make the splash screen, but failed.
Feb 03, 2025	5	Done the splash screen, but cannot remove the default one...

Feb 04, 2025	4	Tried to remove the default one, but failed. I decided to continue with the signin sign up screen.

Repo check in

This week, it took me a lot of time to resolve the version problem, but the issue persists. I shouldn't waste my time on this, next time I will ask others for the help. And next week my plan is to finish the login signup page, and the main page for the app, hope I can finish on time.

Week 05(Feb 04 – Feb 08)

Date	Number of Hours	Description of work done
Feb 04, 2025	3	Doing some design of the onBoarding page.
Feb 05, 2025	4	Learn how to build the onboarding page and started to do it.
Feb 07, 2025	3.5	Finish the 3 pages onboarding page.
Feb 08, 2025	6	Tried to push the project to the github, but since I created two github accounts, I got the problem with the git push. I cannot push it to the new git account and after tried several hours, I can only push it to the main folder…

Repo check in

This week, it took me a lot of time to working with the git, and I got some problems with the different account and keys switching, and I didn't submit the work log on time, I'm so sorry that I missed it. I'll try my best to figure it out on time next week.

The onboarding pages and the splash page are done using flutter, the code was uploaded in the Implementation folder, and I'm learning the flutter list view to prepare my home page, and next week I'll finish the signin, signup page.

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 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 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.