

Human Computer Interaction

UI Design Process

Cheer Community Learner



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INTRODUCTION

Background

Cheer Community learner is an application that help students or learners to interact with each other. With this application user can be able gathering in a forum to discuss about a topic, to sharing their idea, to asking for opinion of other user, telling story or meeting new people to make a group or community to study together.

During this pandemic situation the system of education become a little bit boring so we create this for student to not missing the interaction and collaboration with their friends and make student exited to learn again.

Purpose

The purpose of this report to illustrate the process of UI design mobile application where focus on solution for the problems that are faced by the student. Base on the experience of the student during this pandemic Cheer Community learner is such a good solution to have.

Problem

We collect the problem from the user by doing interview asking about their experience during this pandemic situation. There are 20 question that we asked the users to figure out what is exactly user need during this pandemic situation. The most common problem is time management, less collaboration, less interaction, boring etc.

Solution

Create an application for gathering student called **Cheer Community Learner (CCL)** such as mobile application that have feature like create group, create topic, call and chat. It's really helpful because the application help student to interact and collaborate.

Step1. Understand the user

1.1 List of Question

“Hi my name is Inacio Campos. I am conducting a research as part of my project of HCI. I’d like to ask some question about experience when it comes to the pandemic situation. You don’t have to answer the question you are not comfortable with and there are no wrong or right answer! Do you have any question before we begin?

1. How old are you?
2. Could you please tell me about your family life?
3. Where do you live?
4. What do you like to do in your free time?
5. What is your educational background?
6. What’s your occupation? or work status?
7. Can you tell us about your income?
8. What technology devices you have access to?
9. What are you interested in when using devices?
10. Do you spend time in office or home?
11. How often you collaborates with other?
12. Do you prefer working alone or with other?
13. How can you maximize your job?
14. How do you feel toward this system?
15. What can you learn from this pandemic situation?
16. Tell me about your work or learn experience?
17. If you can change the world what do you change?
18. What’s the advantage of the pandemic situation?
19. what’s the disadvantage from pandemic situation?
20. What’s your expectation for the future?

1.2 User Persona

Binsar De Jesus



I love movies, either it's short or long movie. That's why I spend my free time just watching movies.

Demographics

Age: 22
Gender: Male
Marital Status: Single
Income: \$200-\$500 per month
Location: Bandung, Indonesia

Defining Traits

1. Adventurous
2. Cooperative
3. Determination

Professional Background

Education
Software engineering in vocational school, Dili
Communication science in Telkom university

Company / Job Title
On Shoot/ Video producer.

Work Experience
After graduating he start to work in his passion which is video editing and start to build his own company (production house "On shoot") together with his friends. Now On shoot has become one of the success production house company in Timor Leste. Now he mostly working on laptop or smart phone at his home.

Personal Preferences

Interests
Hiking, volunteering at the film production, Music video, Netflix, social media and hang out with friend and use social media use social media for communication.

Favorite Brands & Products
Apple products. No specific favorite clothes.

Psychographics

Values
Efficiency, prefer working with other, collaborates with people via online/offline, responsiveness.

Goals
Keep motivating. Stay healthy and happy. Take On shoot company to be a great film production company. And finish his study in broadcasting.

Challenges & Frustrations
Lack time to explore outside, lock down at home, boring, difficult to create a video shoot project.

Communication Style

Casual	Professional
<div style="width: 80%; background-color: #0070C0;"></div>	<div style="width: 20%; background-color: #D9D9D9;"></div>

General	Technical
<div style="width: 80%; background-color: #0070C0;"></div>	<div style="width: 20%; background-color: #D9D9D9;"></div>

Compose.ly

Alexandre da Silva



Music has been part of our life, no music no life.

Demographics

- Age: 21
- Gender: Male
- Marital Status: Single
- Income: \$100-\$300 per month
- Location: Bandung, Indonesia

Defining Traits

- Creative
- Cooperative
- Patience

Professional Background

Education
Senior technical high school Fatumaca
Interior design in Telkom University

Company / Job Title
Alex/ Audio engineer or producer.

Work Experience
He build his own creative studio using his small room for recording vocal, many client or singer come to record music in his studio. Unfortunately this pandemic situation makes him difficult to get clients. He tend to produce the vocal online but the quality not as good as in studio. Now he produced the beat and sell online.

Personal Preferences

Interests
Listen to the music, sport, games, Youtube and searching in Google, using device laptop gaming. Learning online and use social media for communication.

Favorite Brands & Products
He loves classic studio mixer and fancy clothes.

Psychographics

Values
Prefer working with other to get many ideas, creative, cooperative, and understand many genre of music.

Goals
Wish this pandemic over soon so he can build a big studio for music production.

Challenges & Frustrations
Doing almost everything online, No clients, No time to go visit friends, less collaboration.

Communication Style

Casual	Professional
General	Technical

Compose.ly

Cesaltino Soares



This pandemic has thought us how to live a healthy lifestyle.

Demographics

- Age: 25
- Gender: Male
- Marital Status: Single
- Income: -
- Location: Bandung, Indonesia

Defining Traits

- Independent
- Optimistic
- Humble

Professional Background

Education
Industrial engineering in Telkom University

Company / Job Title
Student of Industrial engineering in Telkom University.

Work Experience
His experience in studying during this pandemic time is really up and down because everything is online even his practicum has to be done via online which is very difficult. And it's hard for him to interact with people, sometimes just bored at home. Fortunately he can access everything from the internet and it makes his study easier.

Personal Preferences

Interests
watching Youtube videos, playing Futsal, working out, spent his time video calling his friend or family. Using devices like phone and laptop to do every task he has. Use social media for communication.

Favorite Brands & Products
Loves Sport brands like Nike, Adidas, Puma etc.

Psychographics

Values
Able to work alone, talk active, clear communication. **Courage** And understanding.

Goals
Stay healthy and happy Finish his study as soon as possible and find a job.

Challenges & Frustrations
Less discussion with friends, boring at home, corona virus increases. Adapting new process of learning.

Communication Style

Casual	Professional
General	Technical

Compose.ly

Step 2 Understand Business Function

2.1 Business Process

CCL is An interactive online learning site that aim to create a community of everyday learners that allowing user to both teach and learn everyday from each other. Internet can connected people around the world specially for people who loves to interact or collaborate with other. The internet present great opportunity for more accessible and collaborative learning. With online learning there is more potential in harnessing collective intelligence to support learners in sharing knowledge with each other, make friend with new people, make a community of learning and collaborating on learning experience.

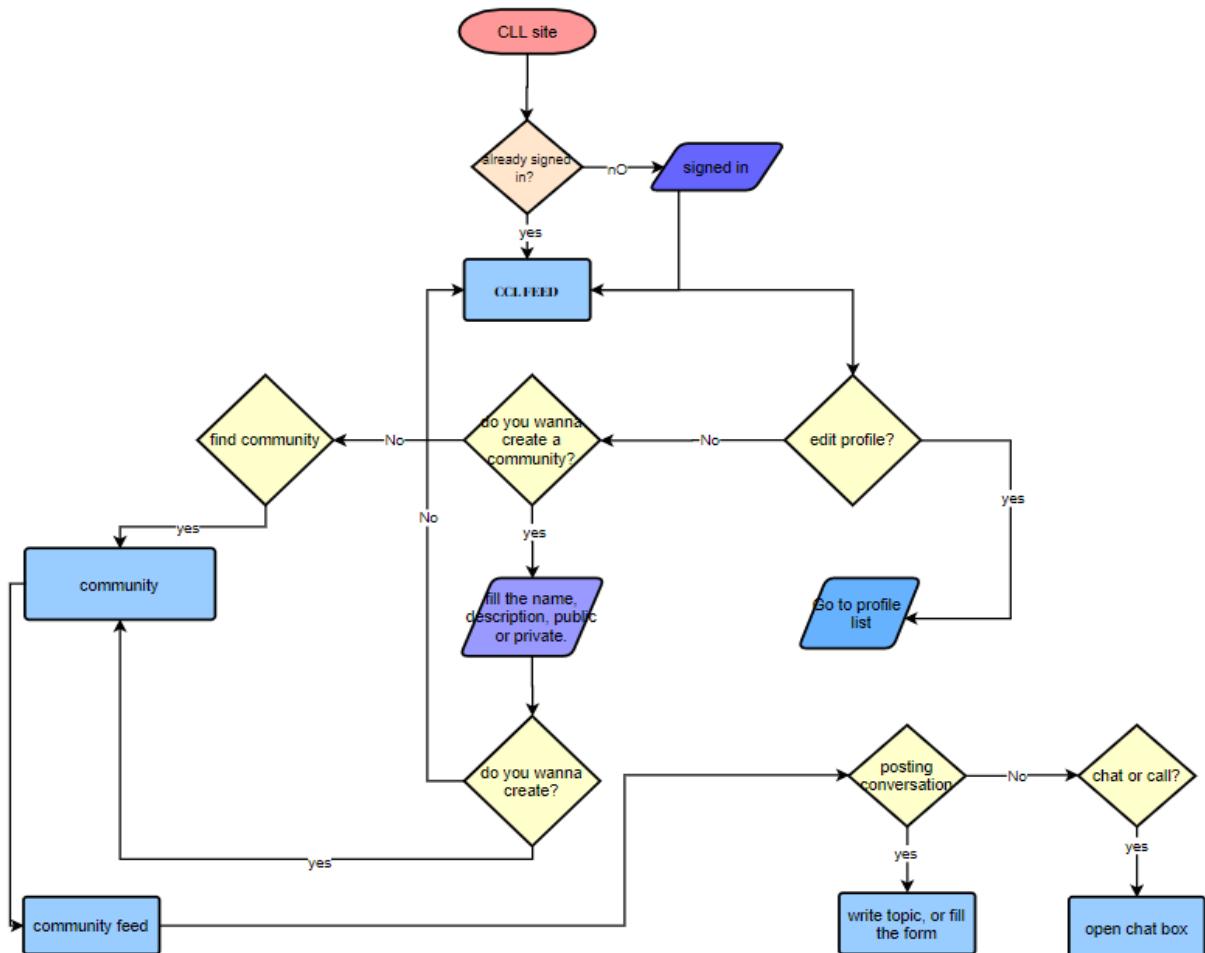


Figure 1

2.2 System requirement

These are the following of minimum hardware and software specifications needed to be able to run the application:

- Hardware includes:
 - Memory : 1024MB RAM or more
 - Processor : Intel Dual Core/Compatible or more
 - Display : Resolution of 800x600
 - Additional :
 - Ethernet LAN Adapter / Wi-Fi adapter to connect the internet
 - Compatible mouse and keyboard
- Software includes:
 - Operating System:
 - Windows 7 Home Basic or more
 - Mac OS X Lion 10.7 or more
 - Ubuntu 14.04 LTS (Trusty Tahr) or more
 - Google Chrome Browser version 4+ / Mozilla Firefox version 3.5+ / Opera version 10.5+ / Safari version 4+
- **Input and output/software boundaries**

The boundary and implementation that used to develop this software such as:

- The application provide user to input video and photo.
- User must connect to the internet to access this application.
- User can login by input username and password.
- User can register account by input personal data required in the registration form.
- User can create a community.
- Output notification & validation
- Output feed
- Output topic that desire
- Output video and photos.

2.3 Task analysis

This task analyst will explain the plan of making time table and follow by the structure with number. There are 6 plants that will apply to user like in the figure 2.

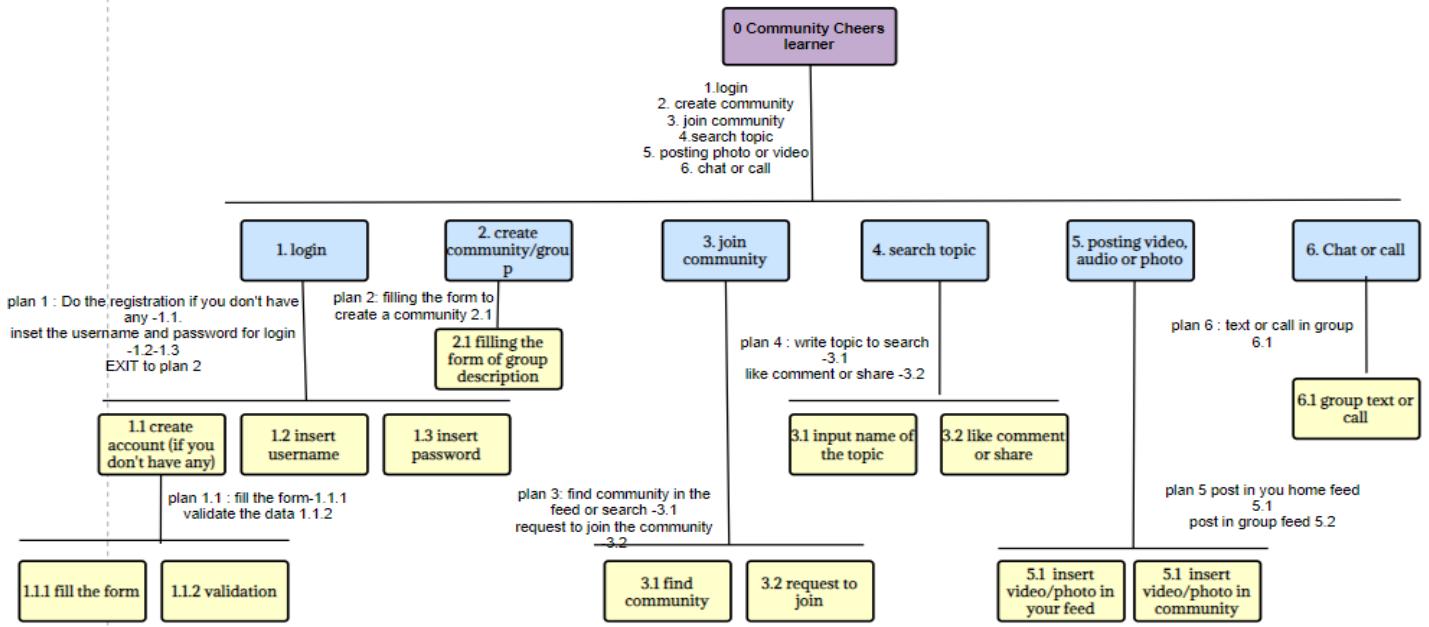
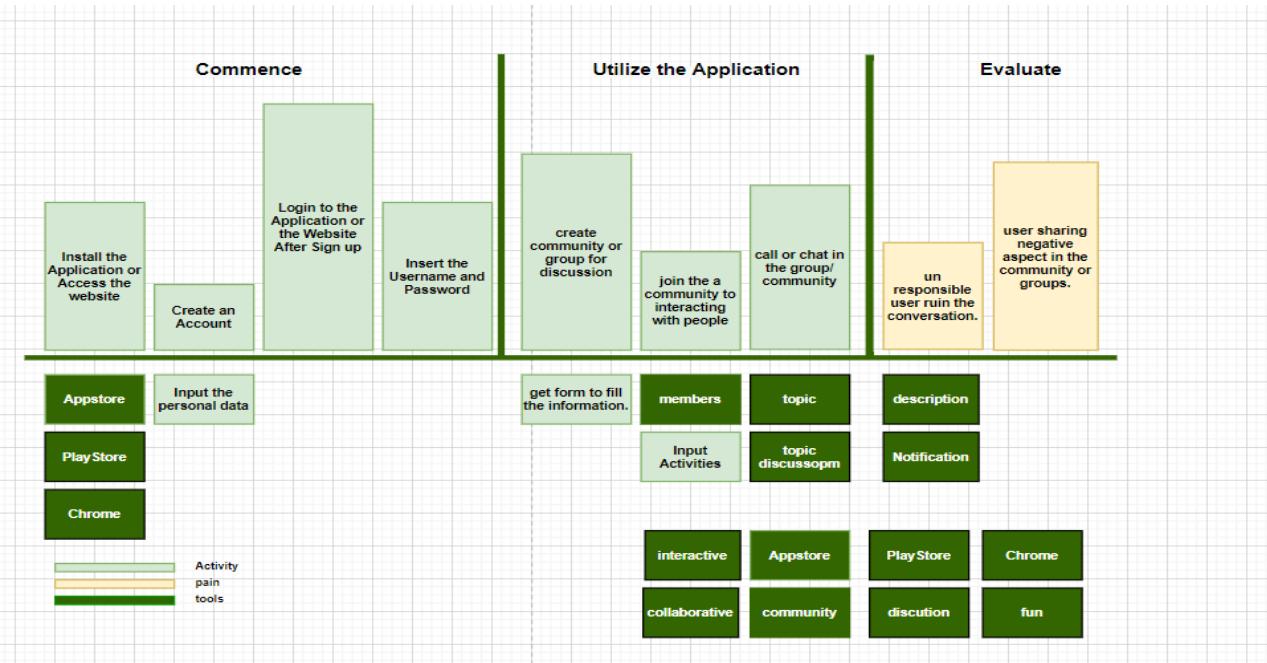


Figure 2

2.4 Mental model

there is tree parts that we need to consider in mental model those are starting part, process of use the application and evaluation



Step 3 Understand the principles of good UI and screen design

3.1 Main Function

- The 2 main function of this application are:
 - 1) **Creating a community/group** for discussion, interacting with each other or make some collaboration
 - 2) **Create topic (letter, video or photo)** to invite users to sharing their idea to each other.
- Justification of 2 main/core function
 - 1) In this creating group/community function user can be able gathering in a forum to discuss about a topic, to sharing their idea, to asking for opinion of other user, telling story or meeting new people to making more friend.
 - 2) In the Create topic function provide a great access for user to posting something the feed or in the group/community. User able to post videos and photos to share their experience or knowledge and make other user interesting and having fun while joining the community.

3.2 Conceptual model of 2 main function

1)

Create group page

X Create Group

Name
Name of group?

cover photo optional
 Add cover photo

Privacy

Create

2)

Create topic Page

X Create topic

Title Metal evolution

photo / video

Description

Post

3.3 Standard Design/Style Guide(sketch)

<p>Login Page</p>	<p>Create account Page</p>
<p>Home Page</p>	<p>Create group Page</p>

Group Page

MUSICIAN HCT
PUBLIC GROUP • 77 MEMBERS

Chat/Call

Campz

Tutorialues!

Like Comment Share

Create topic Page

Create topic

Title

Metal evolution

Photo / Video

Description

Chat/call Page

Campz

wed, oct 7

Nice to meet U! 11:00

11:10 Nice to meet U too :)

Notification Page

Notification

New

Hellboy post in your ... group

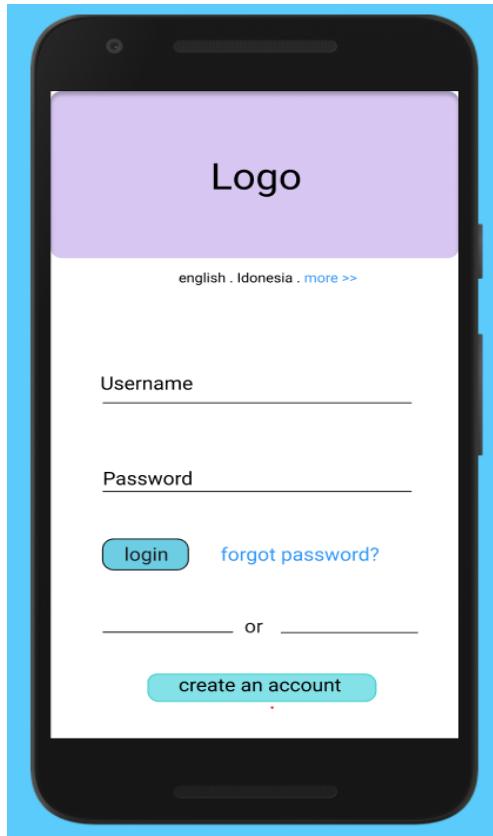
Arnold invite you to ... a group

Fender posted a topic in group MUSICIAN HCT ...

3.4 Justification of each pages

- Login page : is the page that consist of username and password as a require for user to log in into home page of the application.
- Create account page: is a page that consist of registration from such as name, email, nationality etc. require the user to fill their personal data in order to create an account.
- Home page: it is the main page in this application. Also serve as a landing page to attract visitors. It shows the news feed and home page can redirect to the other pages.
- Create group page: this page is for user to create a group for building a community to discuss in any areas that they are desire to. They can create a group by write the group name, adding cover photo and select the privacy whether its public or private. Is private other user must sent the request and get approval before join the group.
- Group page: is the page of a certain users that join together In the same group, so they can access news feed that posted in the group. This page is helping the user to gathering for sharing ideas and knowledge, make some collaboration or interacting with each other. They can give a like or comment in the content posted in the group.
- Create topic page: is the page that help user to create a topic for discussion. They can add video and photo to post to the group page.
- Chat/call page: is the page that allow user texting or calling each other.
- Notification page: it provides notification to user for a number of events related to their account.

Step 4 & Step 5 creating a proper menu system and navigation scheme



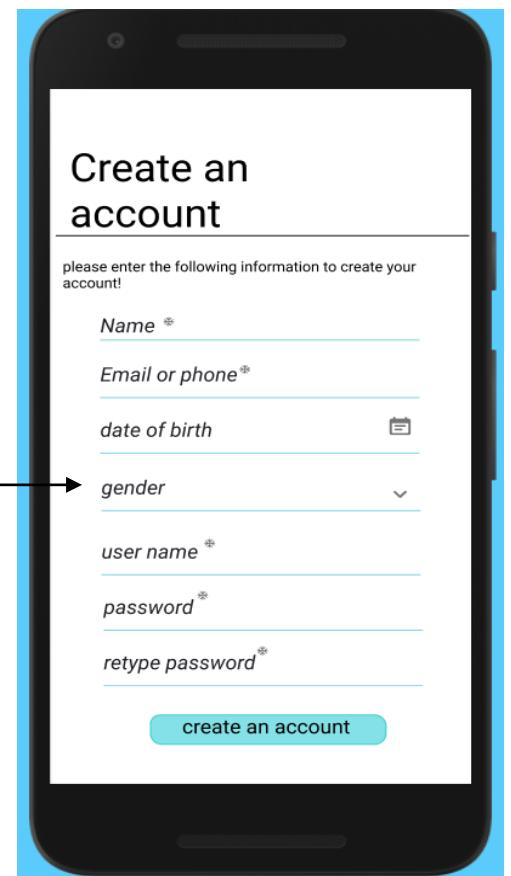
1)

This is the basic login page. This is the page that consist of username and password as a require for user to log in into home page of the application. And if the user haven't create an account yet they can create account by click in create account button to redirect to registration form.

2)

This is the page of create account, its provide the form for user the fill their personal information. There is some data that require user to fill to finish the registration. After they finish the registration they can create the account and waiting for validation.

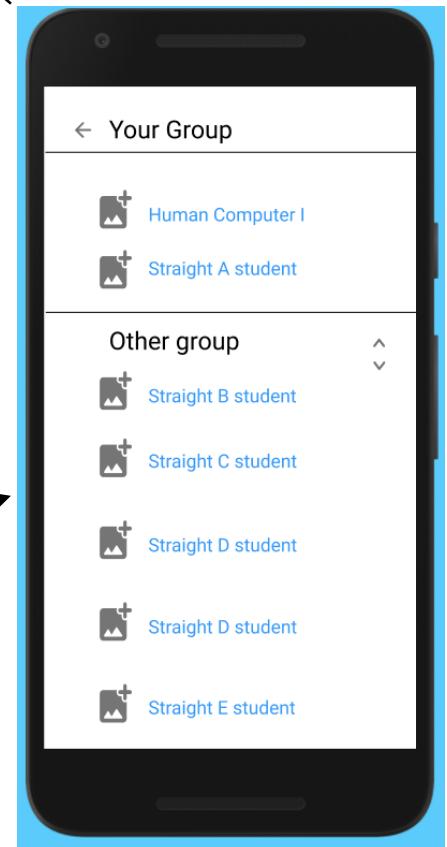
Changed : I add this gender to get more information about user; they can choose male/female.





3)

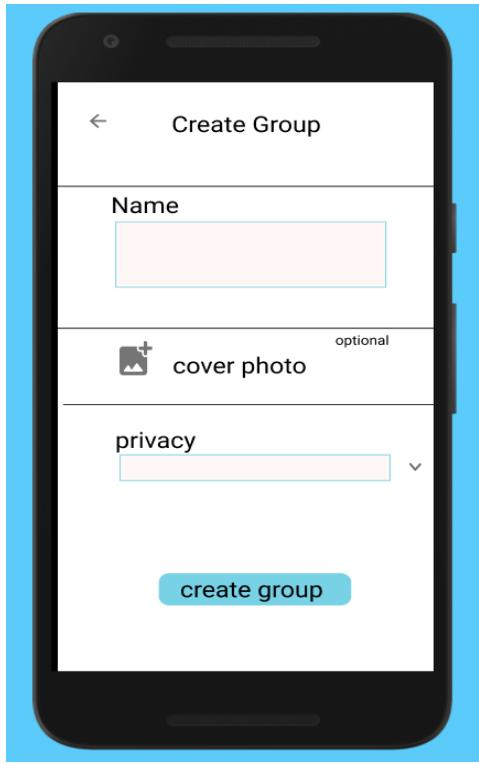
it is the main page in this application. also serve as a [landing page](#) to attract visitors. It shows the news feed and home page can redirect to the other pages. In this page we have a choice to select to visit group, chat, view notification, access menu, create group, and upload photo or video.



4)

When you select group menu it will redirect you this group page which will display your group that you managed and other suggested group so user can access their group or join another group that they desired to.

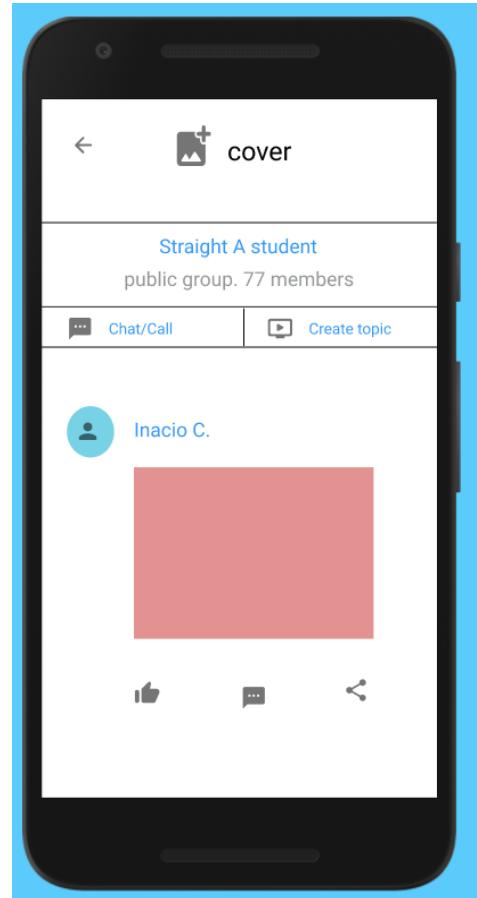
Changed : I add this new page because its such a page that give user more option to choose Which group they want to access.

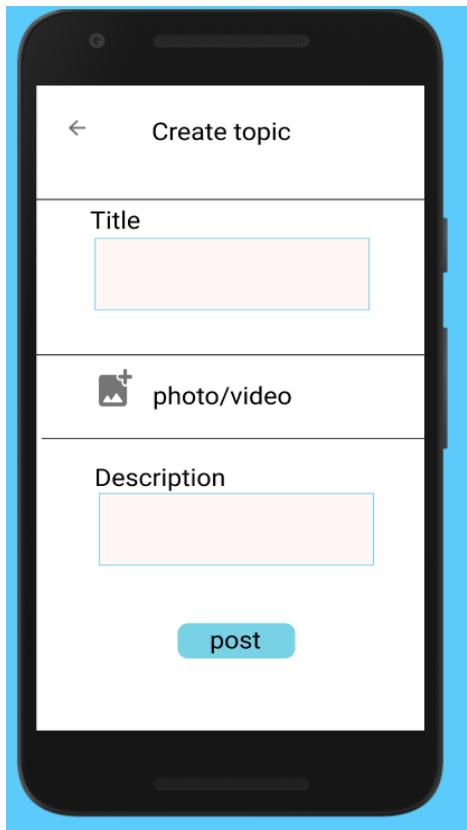


5) user access this page when the users want to create a group to build a community. They will give a name to a created group, they can add cover photo (it's optional) and they can select the privacy such as "public or private" group.

6)

This the group page which is the page of a certain users that join together In the same group, so they can access news feed that posted in the group. This page is helping the user to gathering for sharing ideas and knowledge, make some collaboration or interacting with each other. They can give a like or comment in the content posted in the group. And they can make a chat or group call.





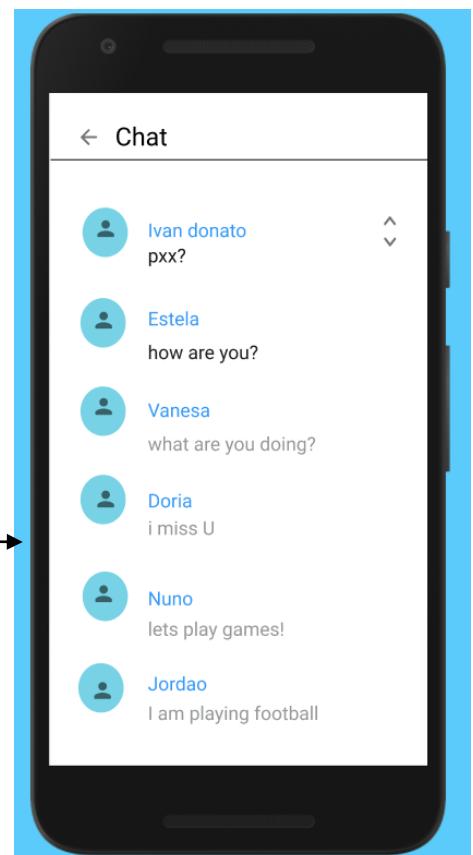
7)

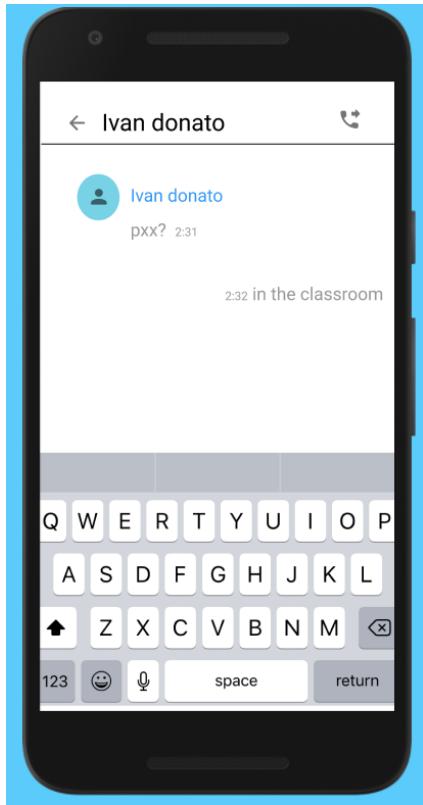
When user select create topic it will redirect to this page. This page is for user to make a topic for a discussion. The topic will be completed by writing the title adding photo or video and giving some description about the topic. After inserted all the data user will click post to add the topic in the group.

8)

User will access to this page when they select chat menu, first of all they can see notification in the home menu how many chat sent the users. And this is the display that make user easily to identify which message haven't open yet.

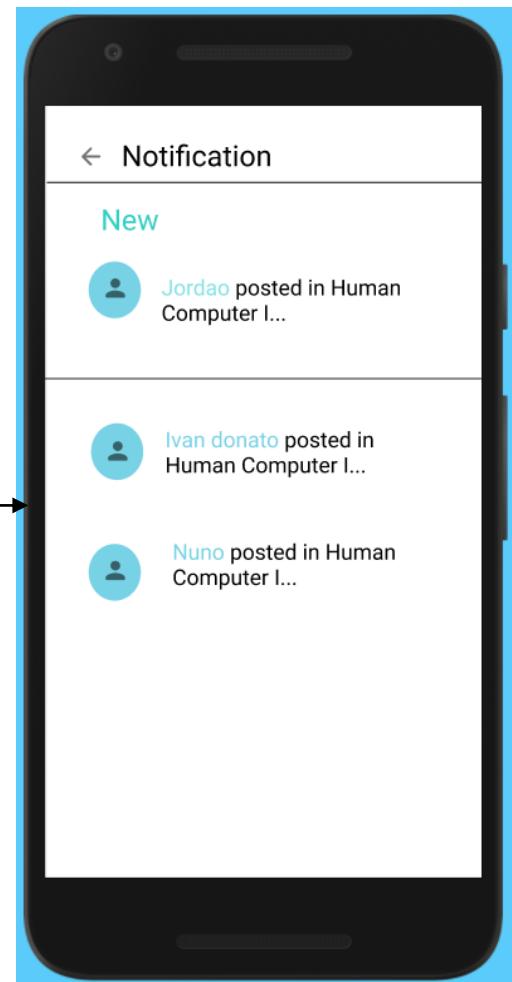
Changed : I Add this page to make user able to select which chat they want to read and can interact with other users.





9)

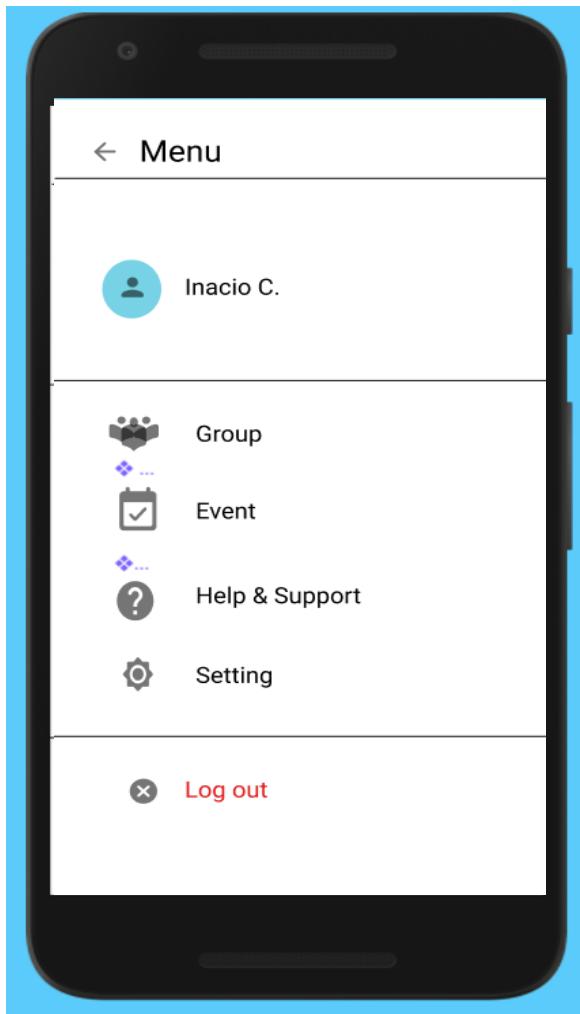
is the page that allow user texting or calling each other. When user select a message to read they will have chance to communicate to each other.



10)

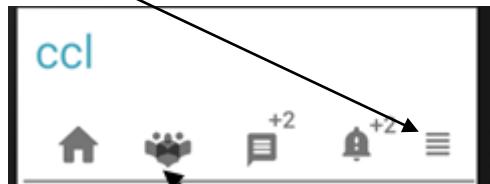
it provides notification to user for a number of events related to their account.

Changed : I just make it into 2 part to separate the one read already bellow and unread above with the text "New"



11)

Changed : I add this one such a menu bar when the user select



An user can access to their own profile, access to a group or event, can find help and support and doing some setting in this application. After the user finish using this app they stop this application fro log out button.

Step 6 Choose the right interaction device

6.1 The Interaction devices in accordance with user needs

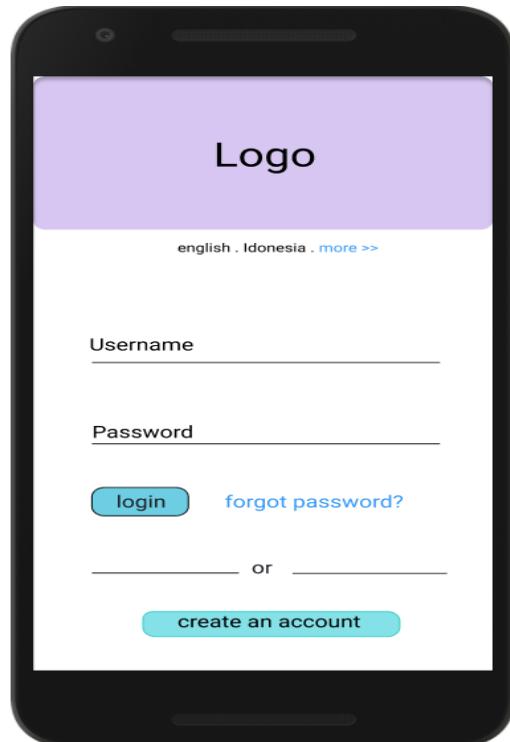
The interaction device in this application will be Mobile. This application will be created as a mobile app touch screen. It would help user easily to interact with this application and help user to access to the app anytime and anywhere. We believe that the requirement that user need to use this application is fulfilled already such as a smart phone.

Step 7 Choose the right screen-based controls

7.1 The most appropriate use of UI objects

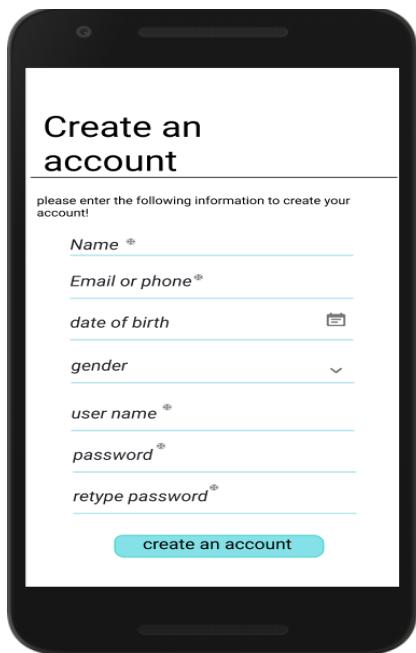
To determine the most appropriate use of UI objects I designed use figma.com here is the explanation and justification I presented using picture and table.

- a. Login



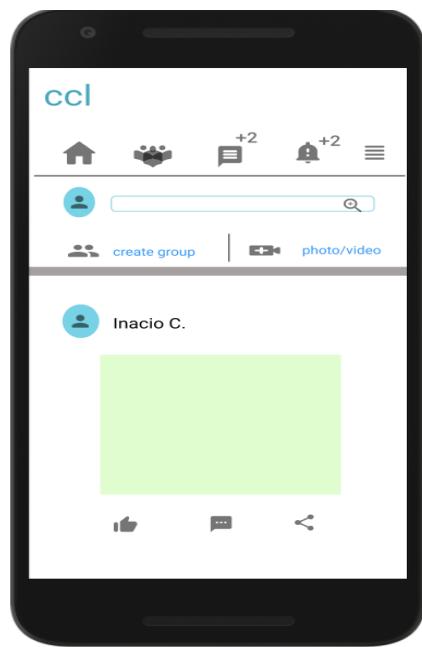
Element	View	Description
Text view	Username, Password, language	Help user to understand where to fill the specific information in the login process.
Text as link	Forgot password?	The text as link the help user to recover their account when they forgot password
Button	Login, create account	The button generate user to the page home or create account.

b. create account



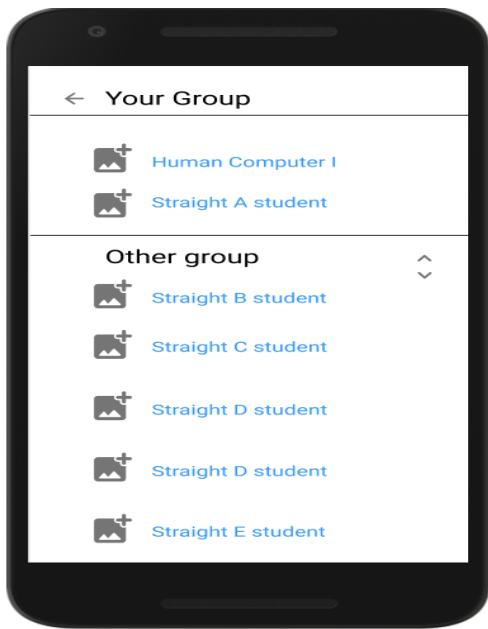
Element	View	Description
Text entry	Create account and user data information text (name, email, gender etc.)	Help user to understand where to fill the specific information in the login process.
Image	Icon calendar on date of birth	Help user to choose the date of birth automatically.
Selection control	Gender.	Give option to user select their gender without writing again.
Button	Create account	This button for user create an account after they had filled the form.

c. Home



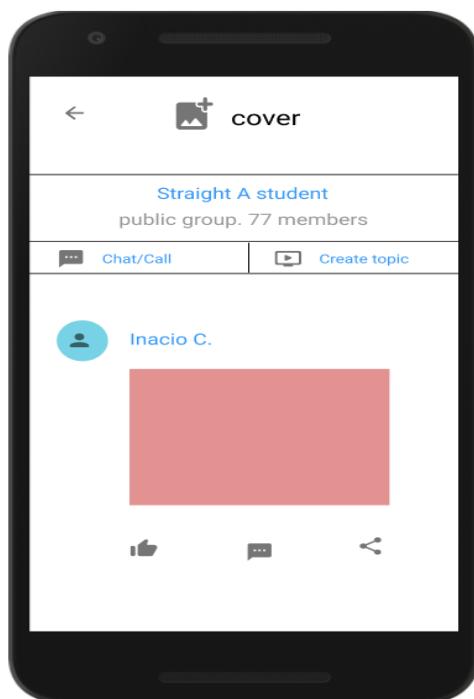
Element	View	Description
Text entry	This one more focus in the news feed when some user posting something.	Help user to read the text that are posted.
Image clickable	Profile, icon home, icon group, icon message, notification and hamburger menu.	When user click this button it will generate them to the place their want to visit.
Text link	Create group, photo or video, and User's name.	It's an additional link that help user to create group, uploading or view profile.
Button	Like icon, comment icon, and share icon.	User has been familiar with this icon so it will be easy for user to understand its function.

d. Group



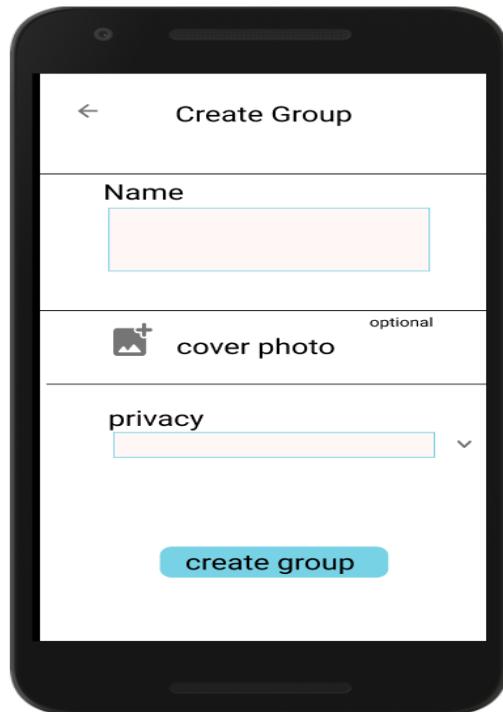
Element	View	Description
Text view	Your group, other group	to see the group that the user has join and the groups that user haven't join.
Text as link	Name of the group	User can access to the group by click in the name of the group.
image	Picture of the group	User able to see the picture a group.

e. Joined group



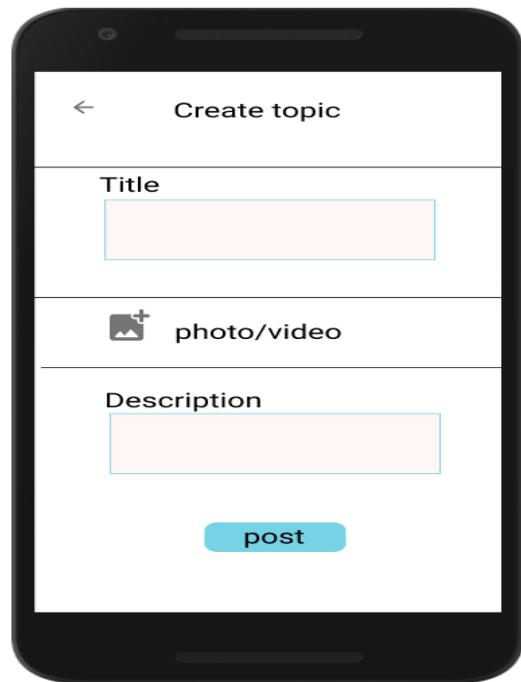
Element	View	Description
Text entry	This one more focus in the news feed when some user posting something.	Help user to read the text that are posted.
Image clickable	Cover photo chat icon, tv icon.	When user click this button it will generate them to the place their want to visit like chat or upload.
Text link	Chat or call, create topic and User's name.	It's an additional link that help user to create topic, chat, uploading or view profile.
Button	Like icon, comment icon, and share icon.	User has been familiar with this icon so it will be easy for user to understand its function.

f. Create Group



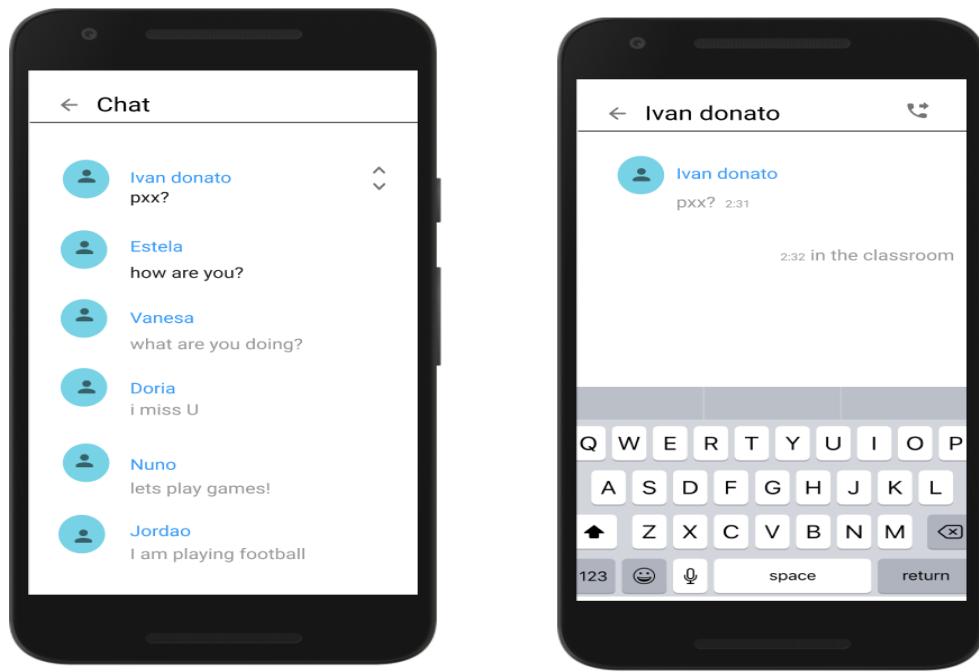
Element	View	Description
Text entry	Create group, name, privacy, optional	This help user to know where there are what information they need to feel.
Image clickable	Image icon	User will click this when they want to upload a cover photo.
Text box	Name	For user to give a name to the group.
Selection control	privacy	User can choose privacy of the group either private or public group..

g. create topic



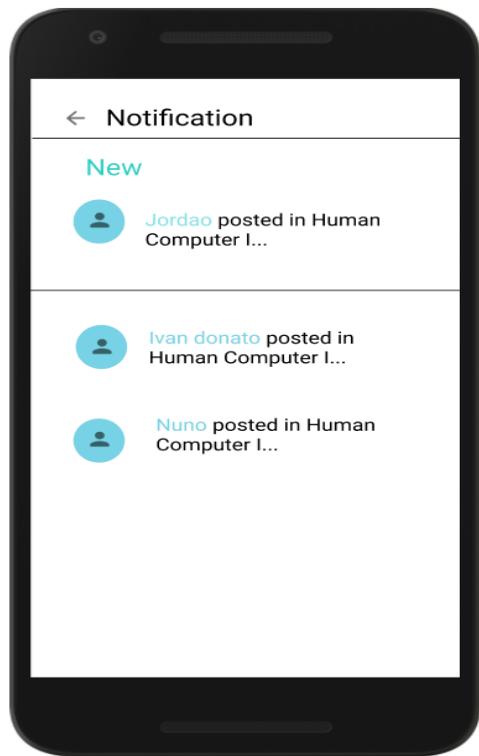
Element	View	Description
Text entry	Create topic, title and description	This help user to know where there are what information they need to feel.
Image clickable	Image icon	User will click this when they want to upload a video or photo.
Text box	Title and description	for writing the title of the topic and giving the description in the text box.
Button	post	After finished inserted what they want to upload click this post button to upload the content.

h. message



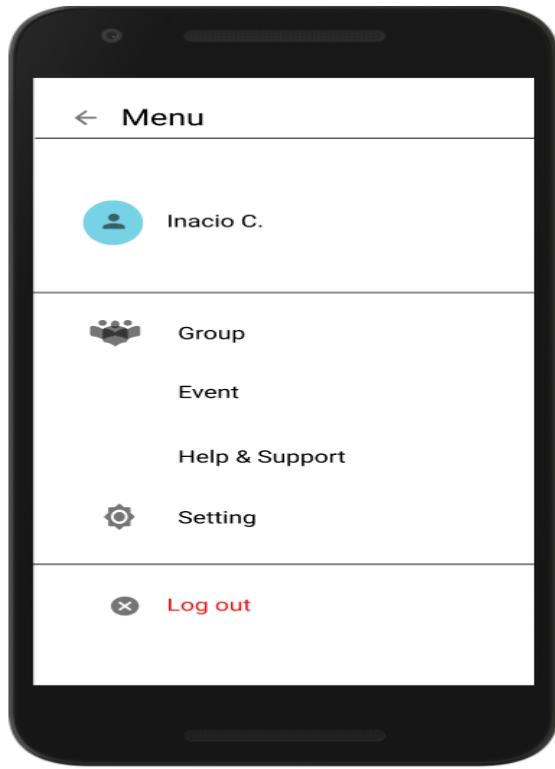
Element	View	Description
Text entry	Chat and name of the user and data	This help user to know where there are. And read and write the message and see the time.
Image clickable	Profile photo	User will click this when they want to read or replay the message.
Text box	Title and description	For writing a text to send to other user.
Button	send	Click to send the message immediately.

i. notification



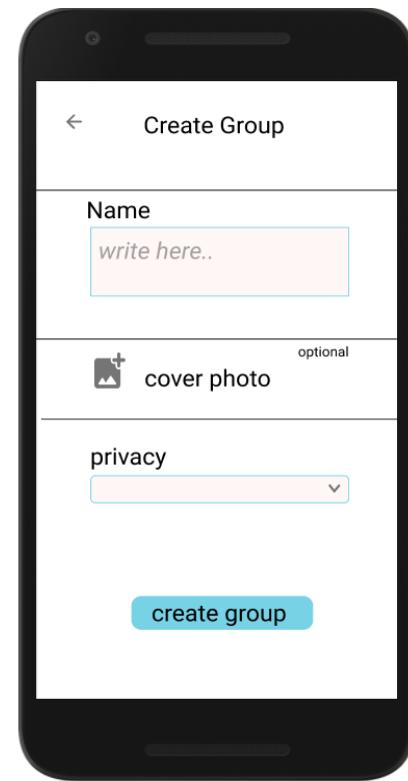
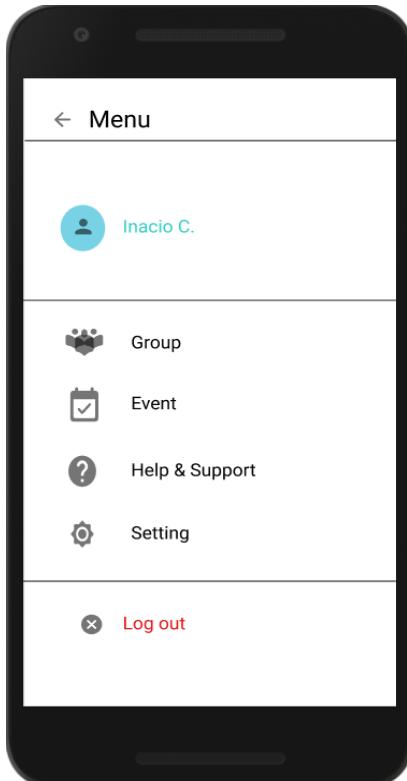
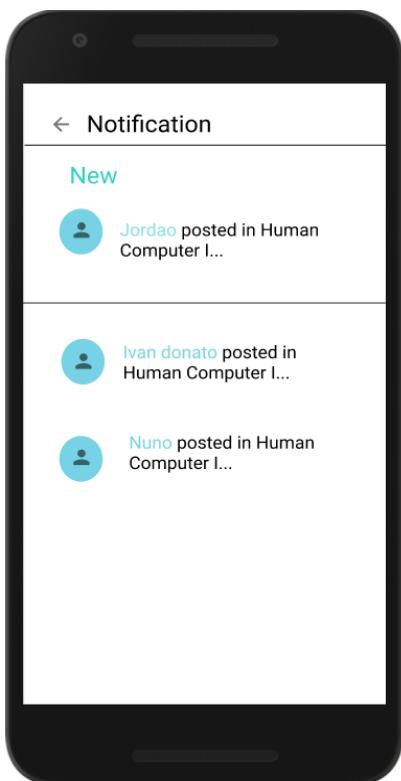
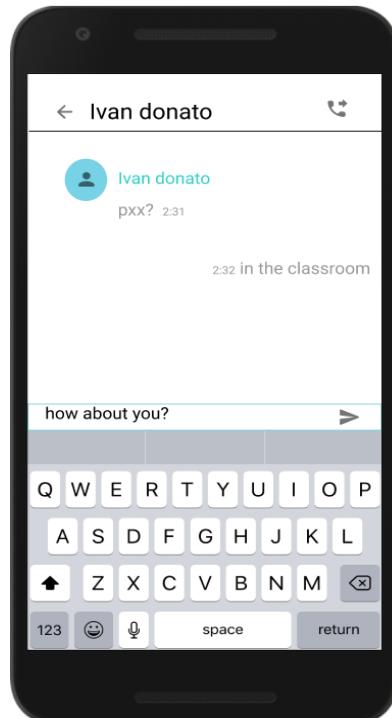
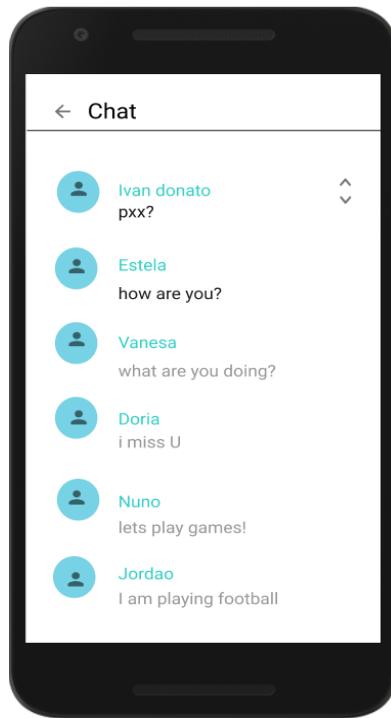
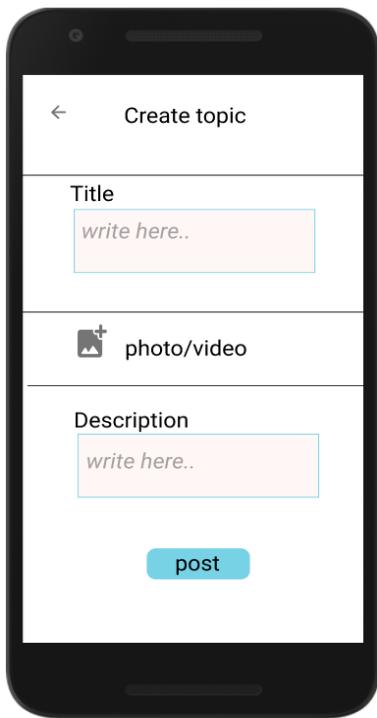
Element	View	Description
Text view	Notification, new.	Only as an information for user to where they currently are. "New" for separate unseen notification.
Text as link	Name of the user and activities that informing in notification.	User can access to the event by clicking the name or the activity written in the notification.
image	User profile picture.	For user to see the profile of other user.

j. Hamburger menu

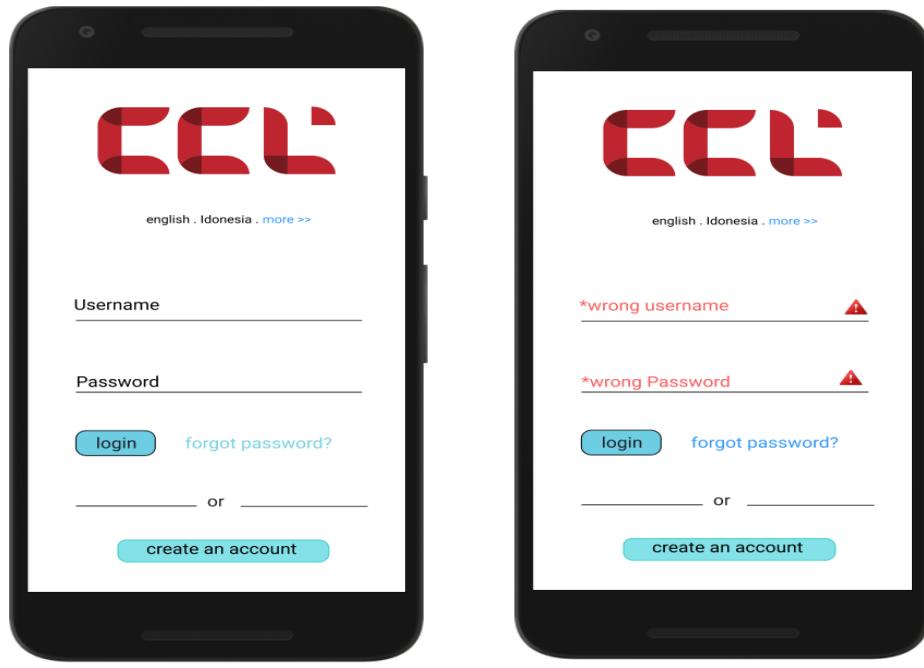


Element	View	Description
Text entry	Menu	This help user to know where there are. And read and write the message and see the time.
Image clickable	Profile photo, icon group, icon event, icon help& support icon setting.	This icon help to generate user to profile, group event etc.
Text clickable	Name of the user, group, menu, event, help, setting and logout.	Just like the image or icon this text has the same function
Button	Logout	User click this logout button to exit this application.

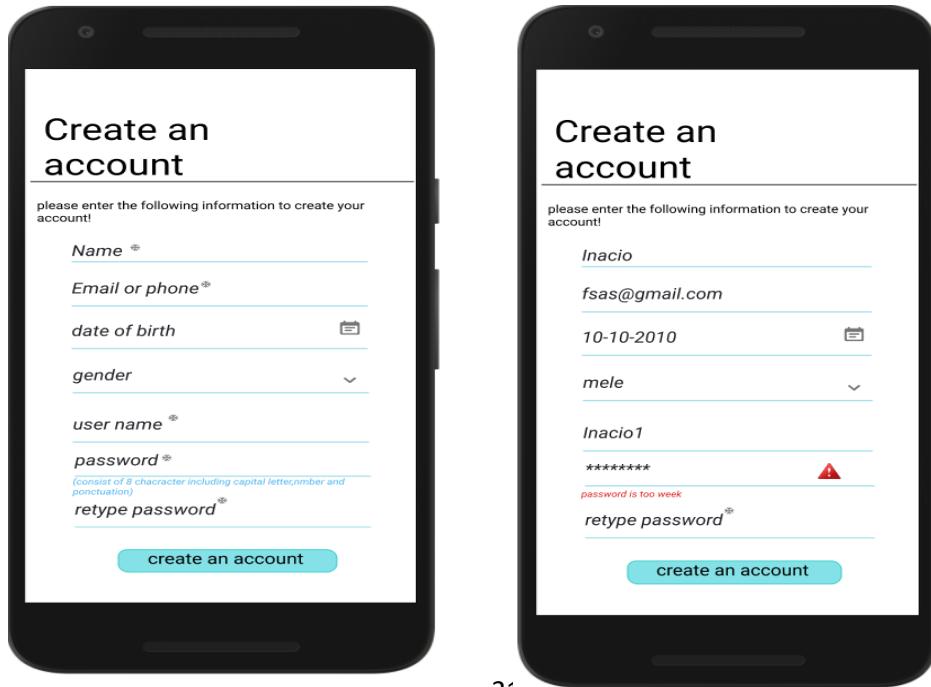
Step 8 Write Clear text & message



Step 9 Provide effective feedback, guidance, and assistance



Justification: In this login part I add more new simulation logo and a pop up message called wrong username and wrong password. The function is to give feedback to user if they put a wrong username and password. To give information to the user why they couldn't login to the home page.

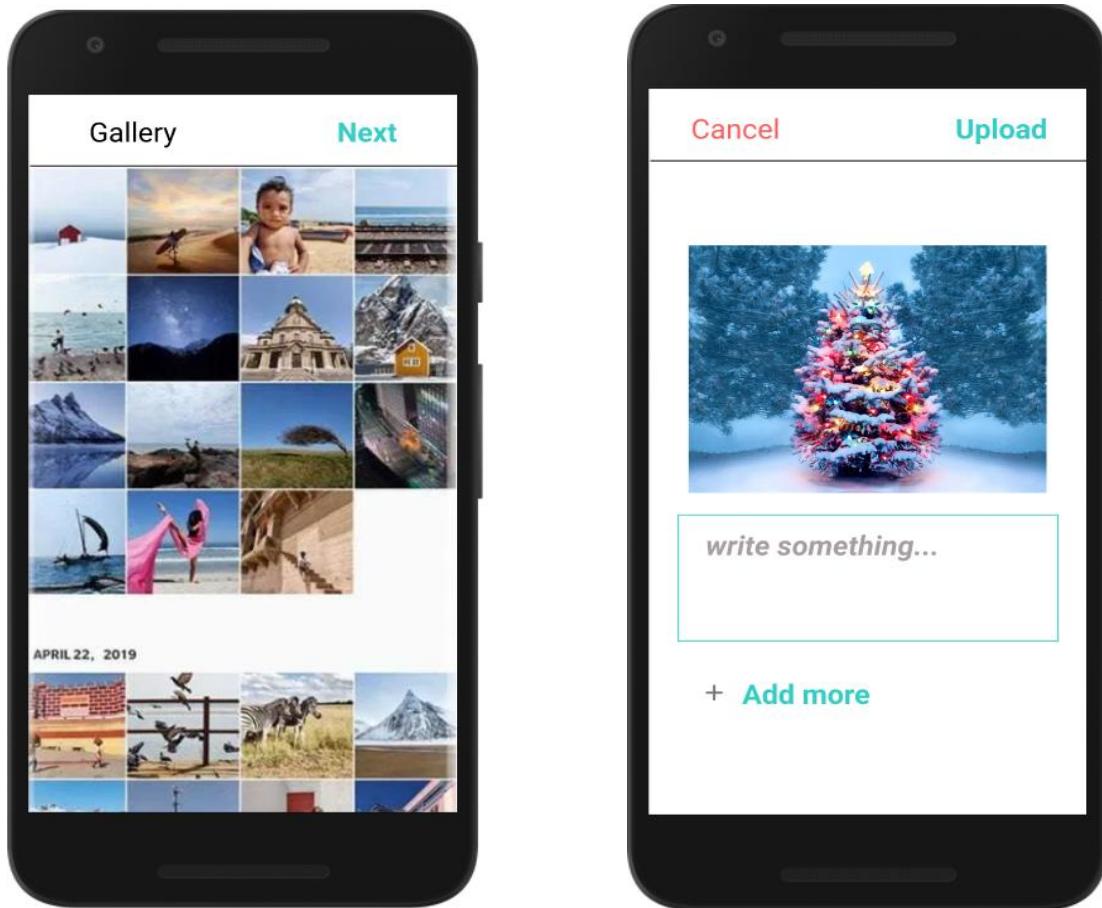


Justification: I add more message in the password part. Telling user to create a strong password. Like in the message says (the password consist of Capital Letter, number and punctuation).

And if the password that user fill is not strong means the password is missing a capital letter or a number or no punctuation. The feedback would be “password is too week” and the icon of warning sign. Ask the users to create stronger password.

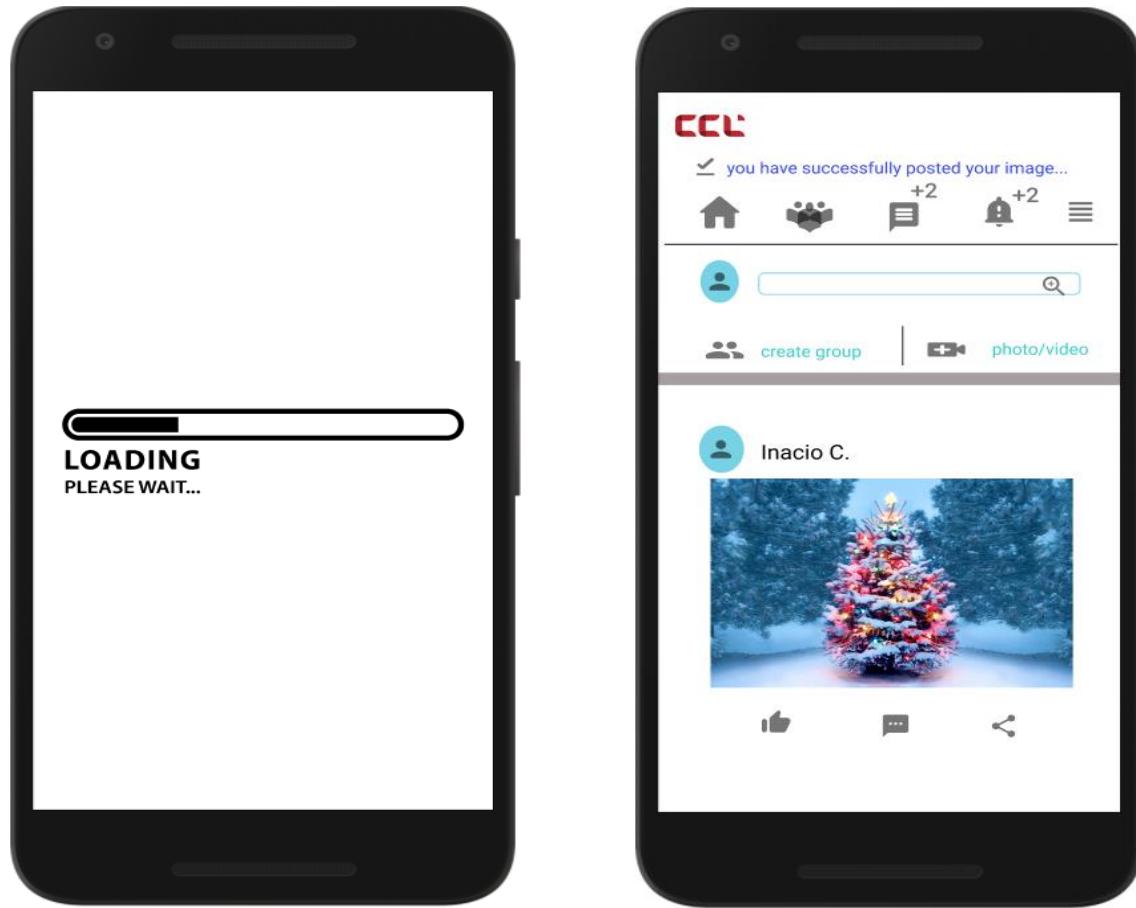
Justification: The design of those pages above is stayed the same but one more time to be core consistent I change the color of the click able text to be the same.

In the text box we add “write here” message to make user more understand what to do with the boxes. And also in the chat I added more icon to send message as well as the simulation of writing text in the chat.



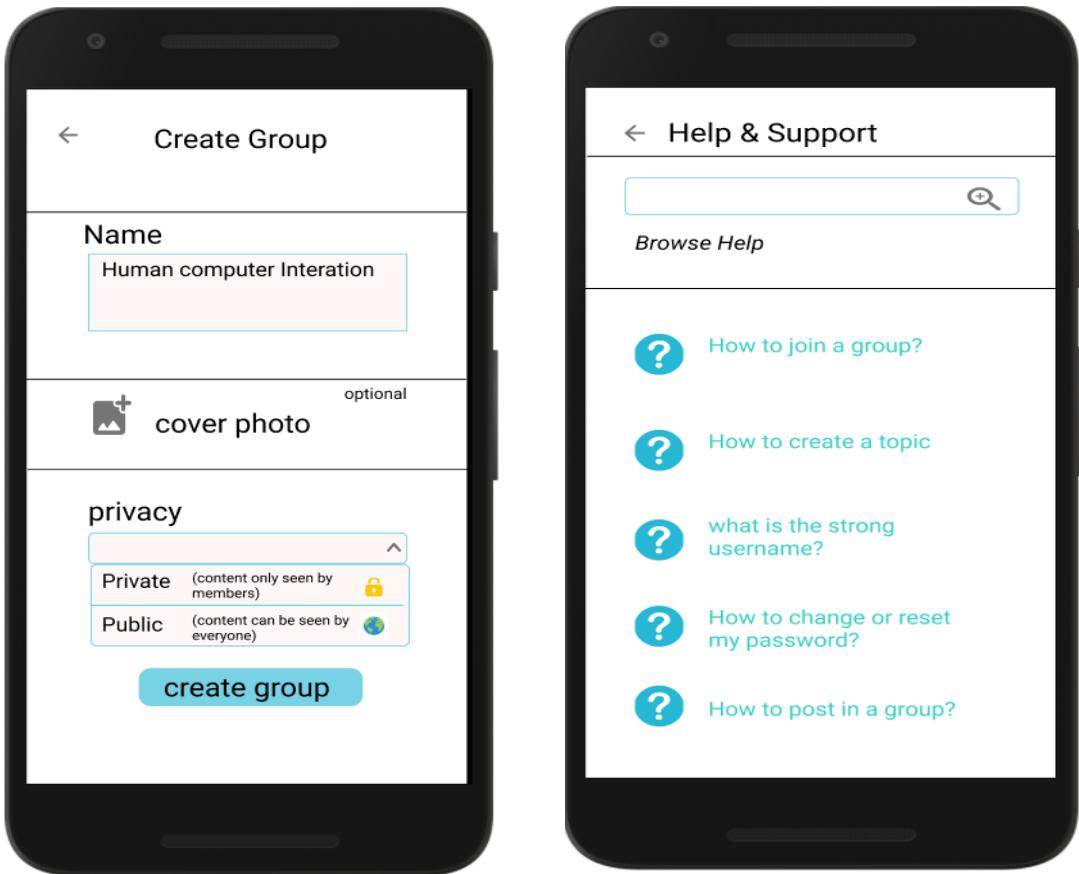
Justification: These are new design that I added to the project. When the user want to upload a photo or a video. It will redirect to gallery so the user can choose the file to upload after choose the file the user can click next to move to the next process.

This is the next process user can write something in the text box and also can add more photo. And the users still have an option to cancel their post and if user is happy with their post they can click upload to post their content.



Justification: This is also new pages that I've created its still about the process of uploading when the click upload this feed back will show the real time process. It important because it can show the information to the user how long their content will be loaded.

And after the process had been finished there will be a pop up message that written "you have successfully posted your image" that inform that your file is successfully posted. This little information is really important for user to know that their file has been posted.

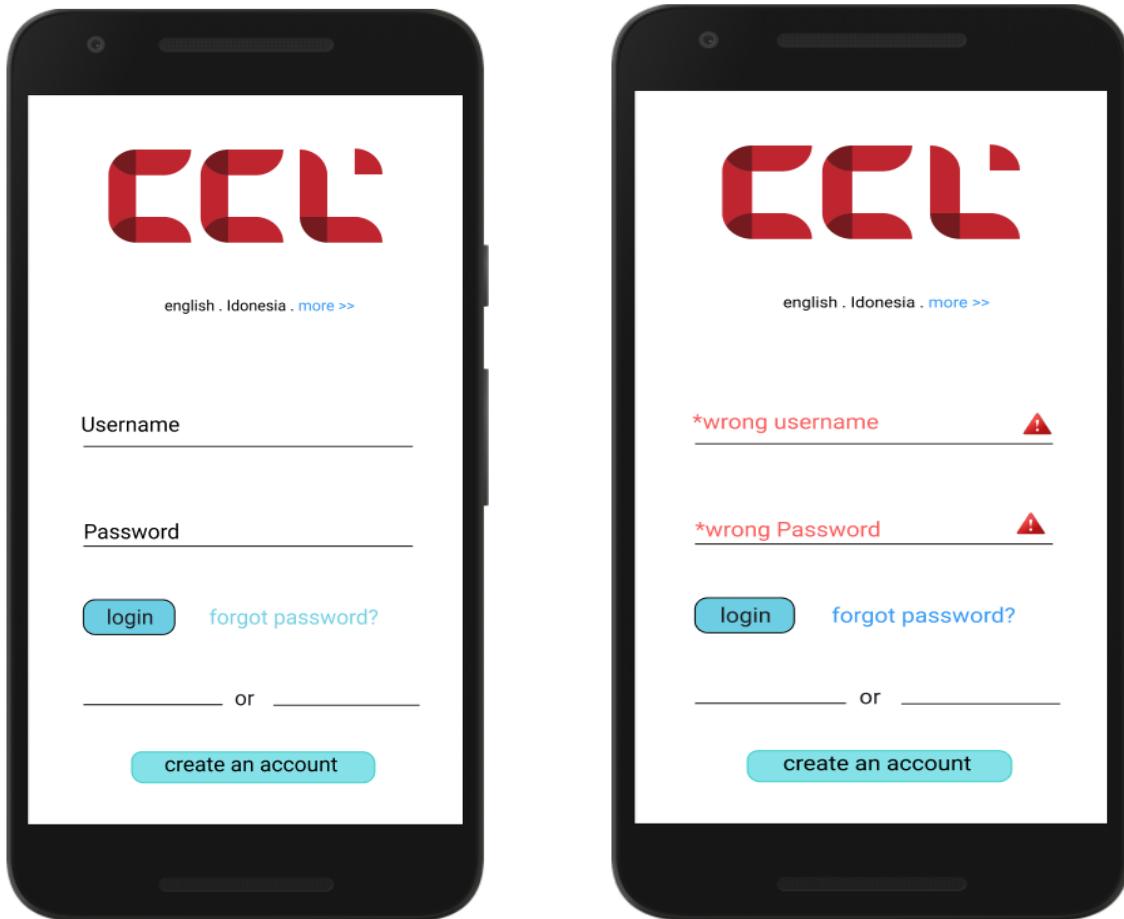


Justification: I created this new Created group page to be focus more in the privacy. When the user click privacy they will have to option for the group that he want to create, those are public and private. We have text explain beside both option and a little icon of lock and world to make user more understand.

For Private the contents only seen by members of the group. For Public the contents can be seen by everyone. This is given more explanation to the user so they can select base on want they want.

Justification: Last but not least I create this one from the option in hamburger menu about help and support. This is such as manual and guidance for the user if they don't know how to use the application. They can search for help related to what is delivered by the application.

Step 10 Analysis of text design and message and feedback, guidance and assistance



Justification: In this login part I add more new simulation logo and a pop up message called wrong username and wrong password. The function is to give feedback to user if they put a wrong username and password. To give information to the user why they couldn't login to the home page.

Create an account

please enter the following information to create your account!

Name *

Email or phone *

date of birth

gender

user name *

password *

(consist of 8 character including capital letter, number and punctuation)

retype password *

create an account

Create an account

please enter the following information to create your account!

Inacio

fsas@gmail.com

10-10-2010

mele

Inacio1

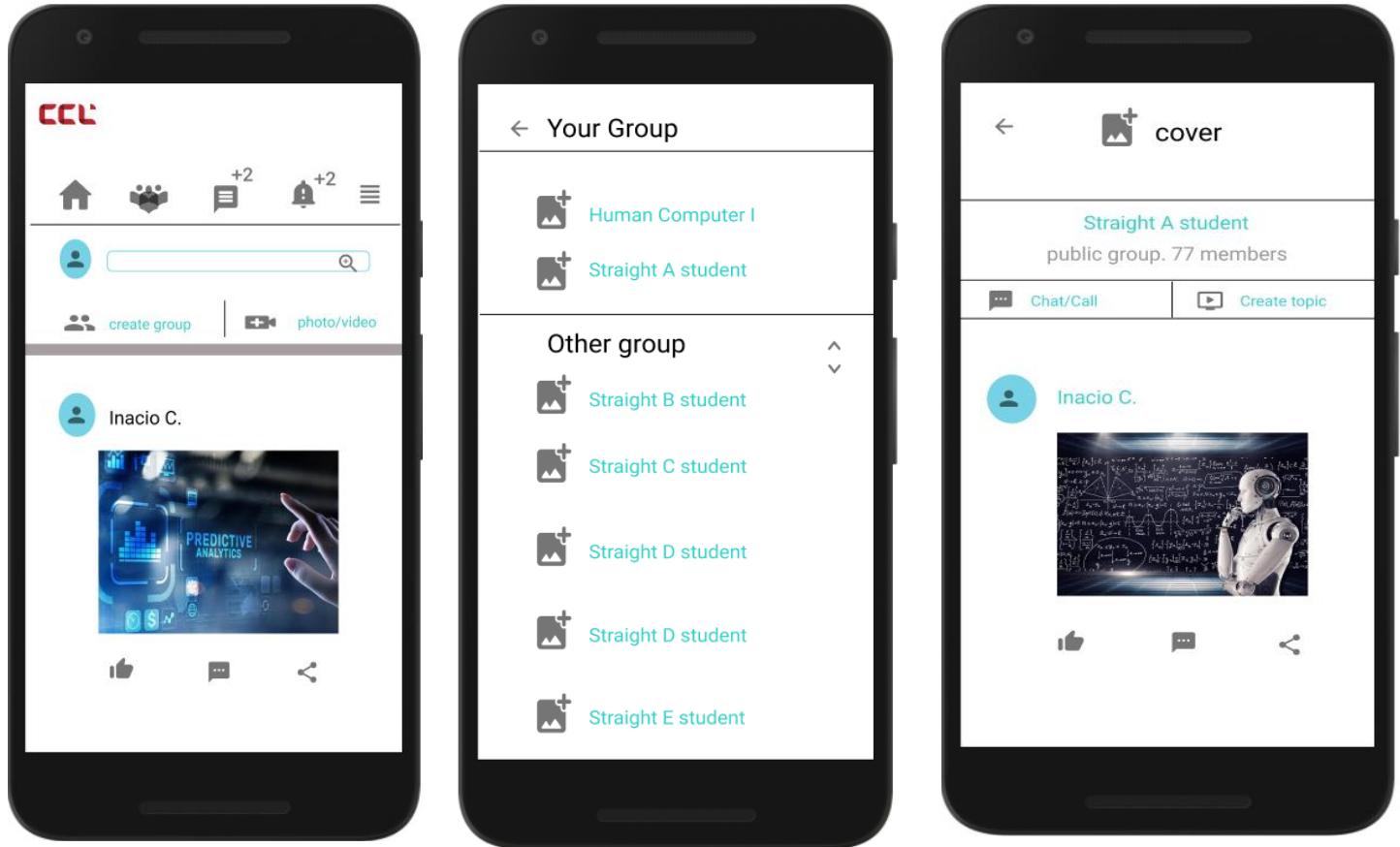
password is too week

retype password *

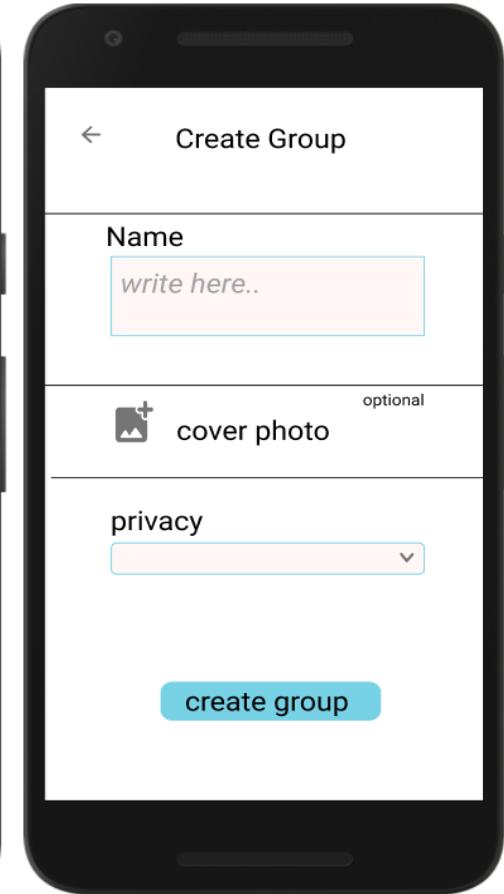
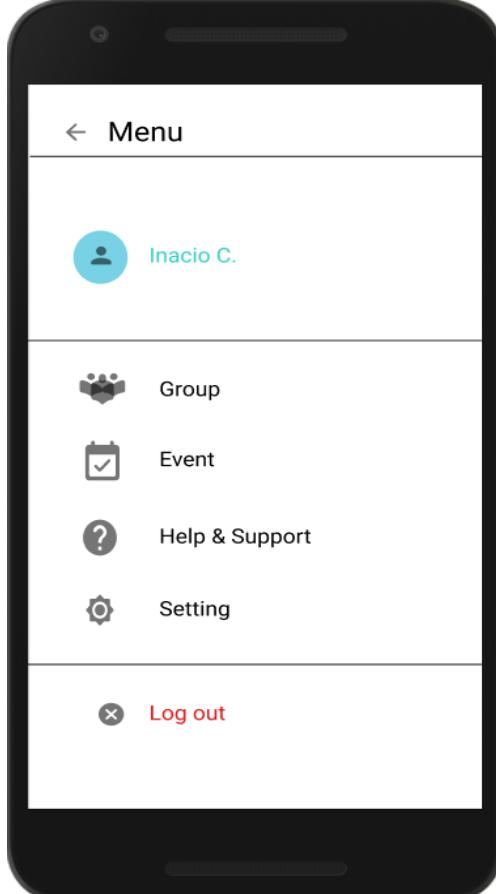
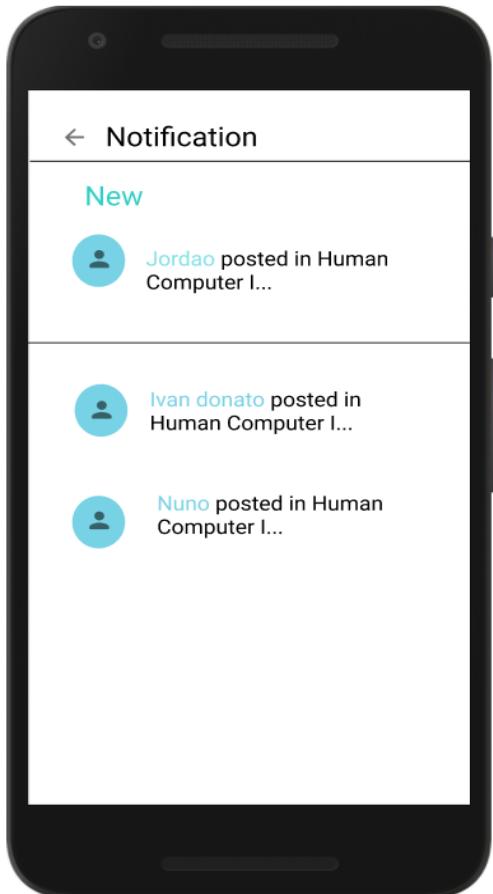
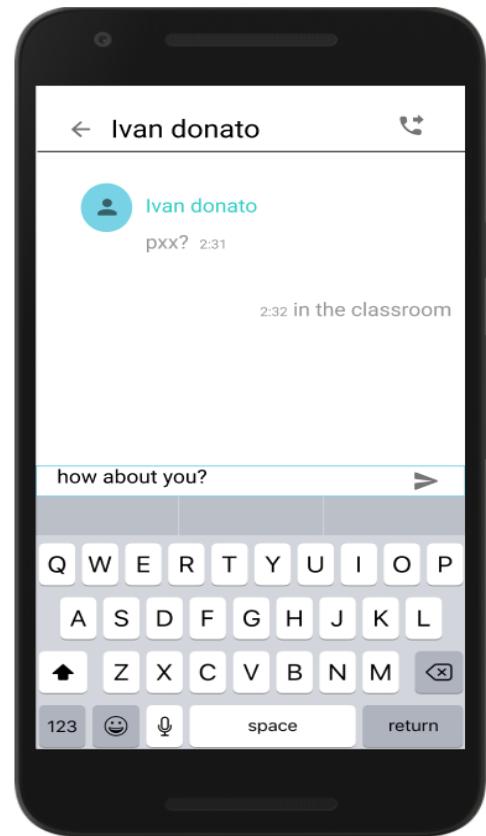
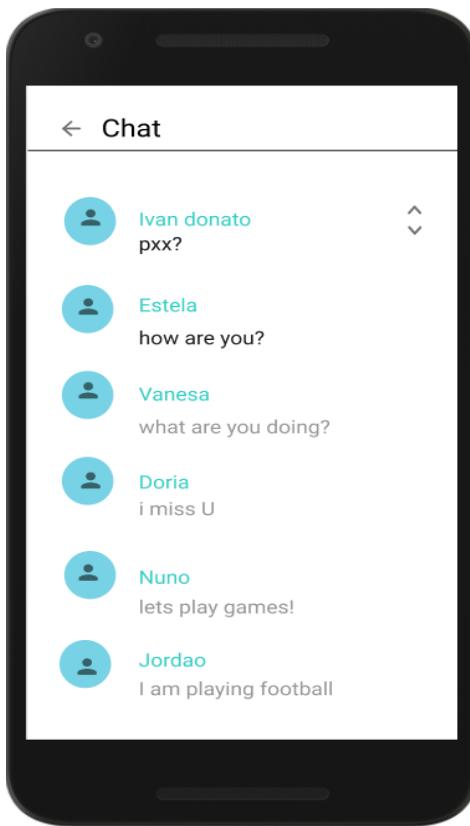
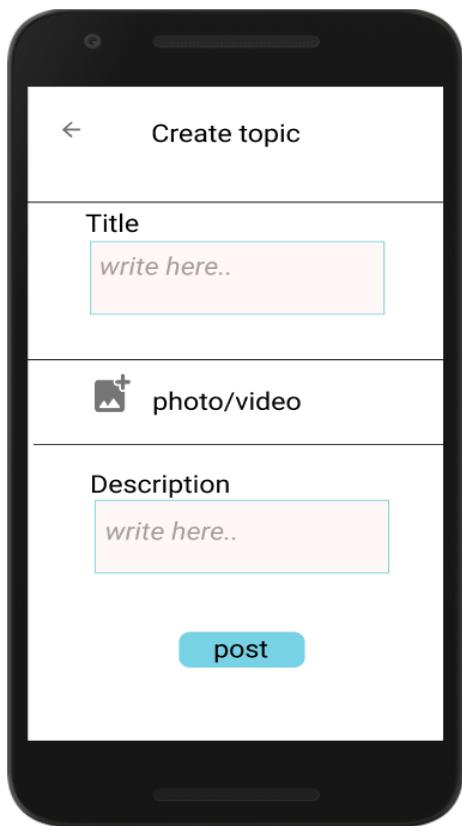
create an account

Justification: I add more message in the password part. Telling user to create a strong password. Like in the message says (the password consist of Capital Letter, number and punctuation).

And if the password that user fill is not strong means the password is missing a capital letter or a number or no punctuation. The feedback would be “password is too week” and the icon of warning sign. Ask the users to create stronger password.

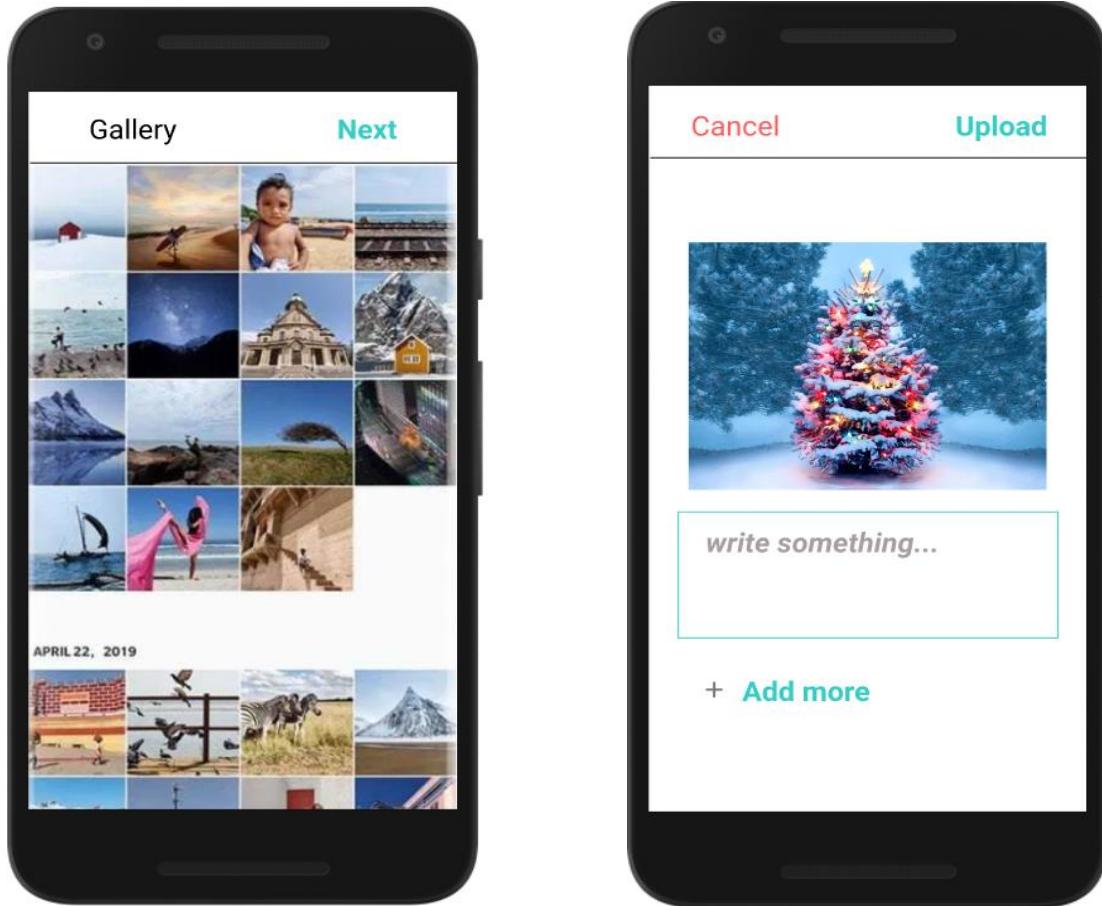


Justification: Home page and group page stays the same, but I just change every clickable text with the same color which is light blue to be more consistent. And the logo also have to be same with the one in the login.



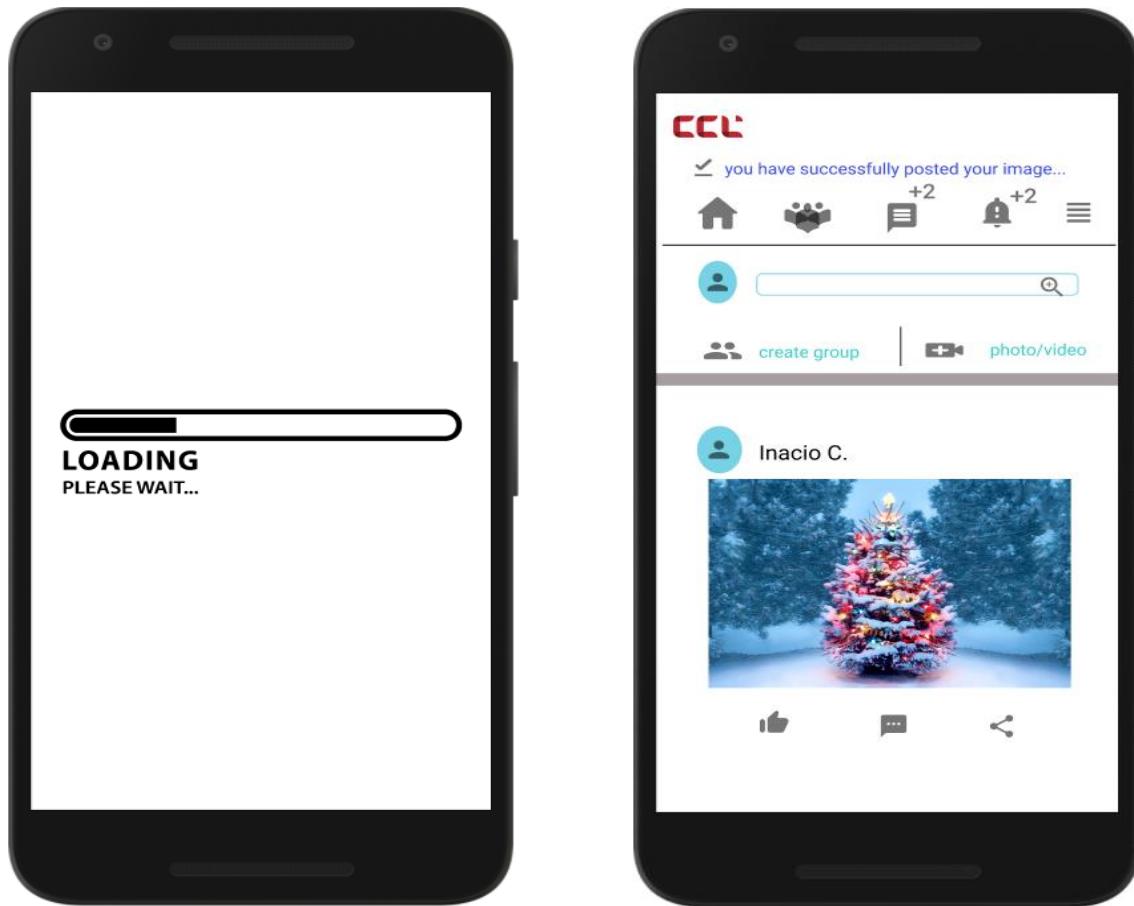
Justification: The design of those pages above is stayed the same but one more time to be core consistent I change the color of the click able text to be the same.

In the text box we add “write here” message to make user more understand what to do with the boxes. And also in the chat I added more icon to send message as well as the simulation of writing text in the chat.



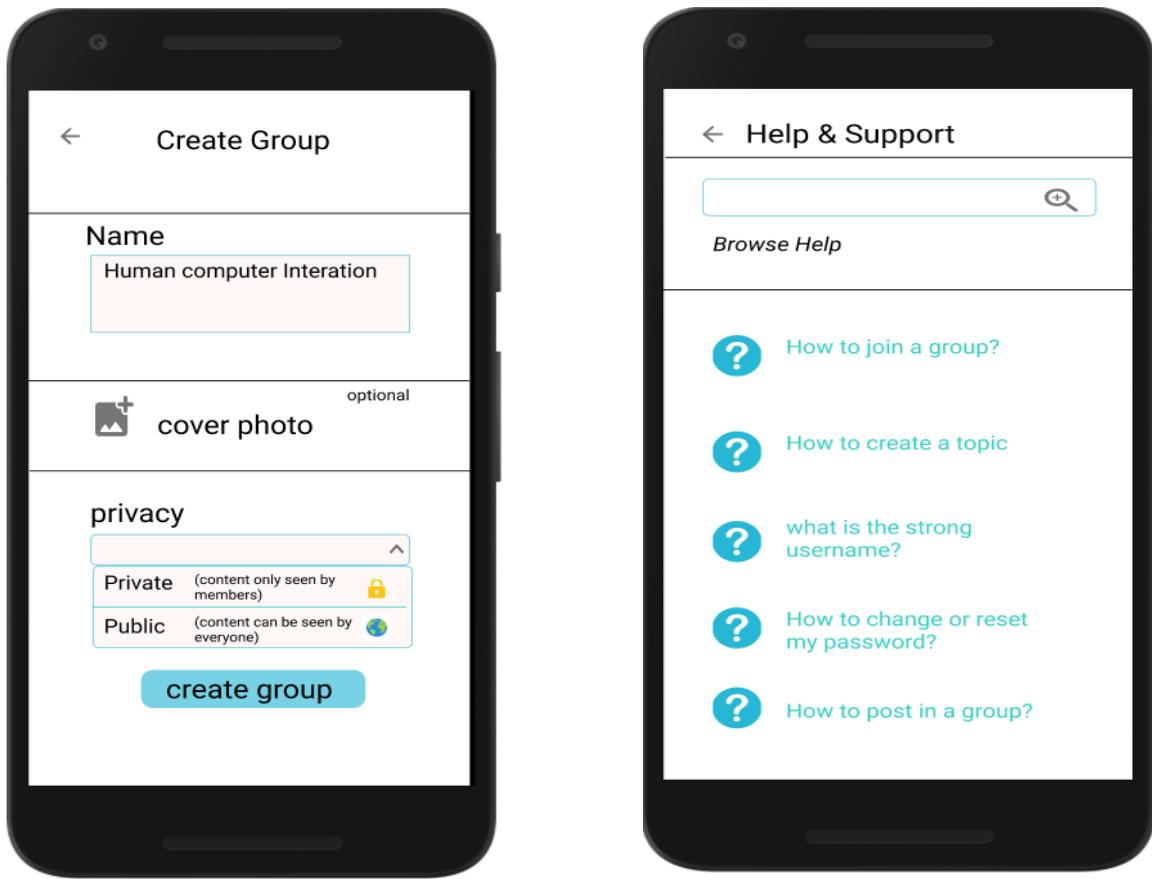
Justification: These are new design that I added to the project. When the user want to upload a photo or a video. It will redirect to gallery so the user can choose the file to upload after choose the file the user can click next to move to the next process.

This is the next process user can write something in the text box and also can add more photo. And the users still have an option to cancel their post and if user is happy with their post they can click upload to post their content.



Justification: This is also new pages that I've created its still about the process of uploading when the click upload this feed back will show the real time process. It important because it can show the information to the user how long their content will be loaded.

And after the process had been finished there will be a pop up message that written “you have successfully posted your image” that inform that your file is successfully posted. This little information is really important for user to know that their file has been posted.



Justification: I created this new Created group page to be focus more in the privacy. When the user click privacy they will have to option for the group that he want to create, those are public and private. We have text explain beside both option and a little icon of lock and world to make user more understand.

For Private the contents only seen by members of the group. For Public the contents can be seen by everyone. This is given more explanation to the user so they can select base on want they want.

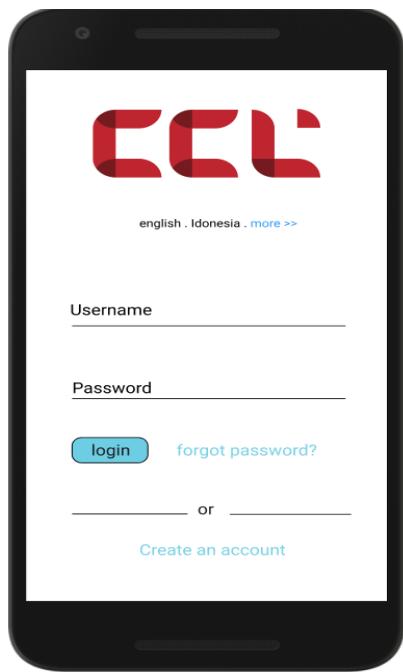
Justification: Last but not least I create this one from the option in hamburger menu about help and support. This is such as manual and guidance for the user if they don't know how to use the application. They can search for help related to what is delivered by the application.

Step 11/12 Internationalization and accessibility analysis and design

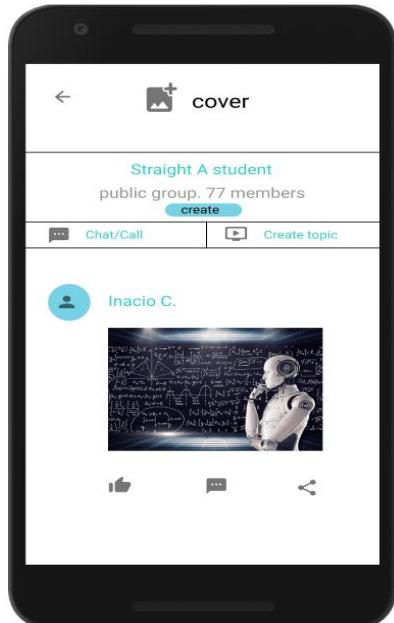
Internationalization

Accessibility

Since I want my application to be accessible worldwide I create a feature which has all language available to make the user can select their own language to use this application.

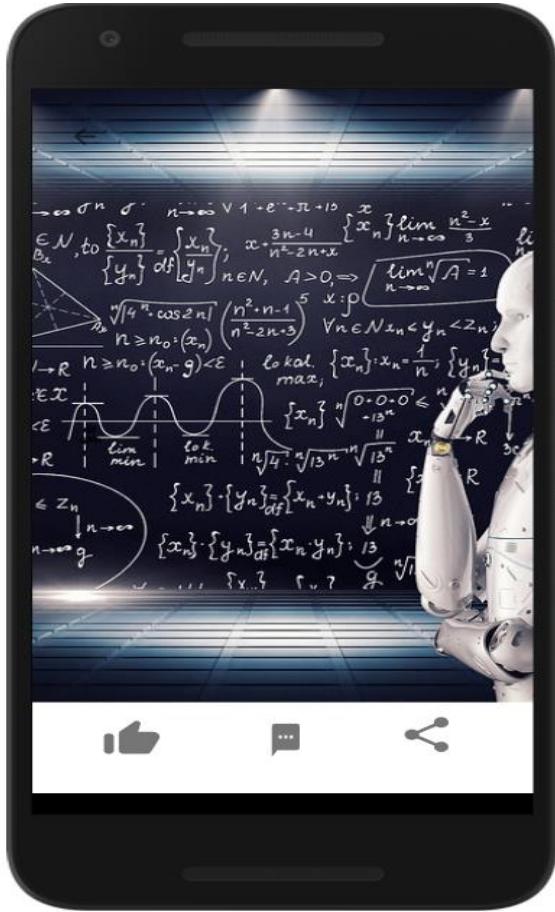


Since we want the application able to use by user that always want to interact with each other we create feature called create group to make user interacting with all the people around the world.



Use of graphics

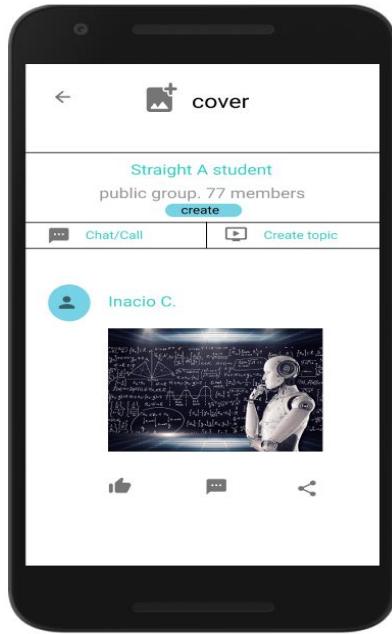
The Graphic size that we use a little bit bigger and suitable with the interface or screen of the mobile. And the graphic can be full size when its clicked. And can scale up and down like zoom in and zoom out.



Icons

The icon that I use in this design is the icon that already famous, easy to understand and already used by many application so the user can easily understand what is it about.

For example:

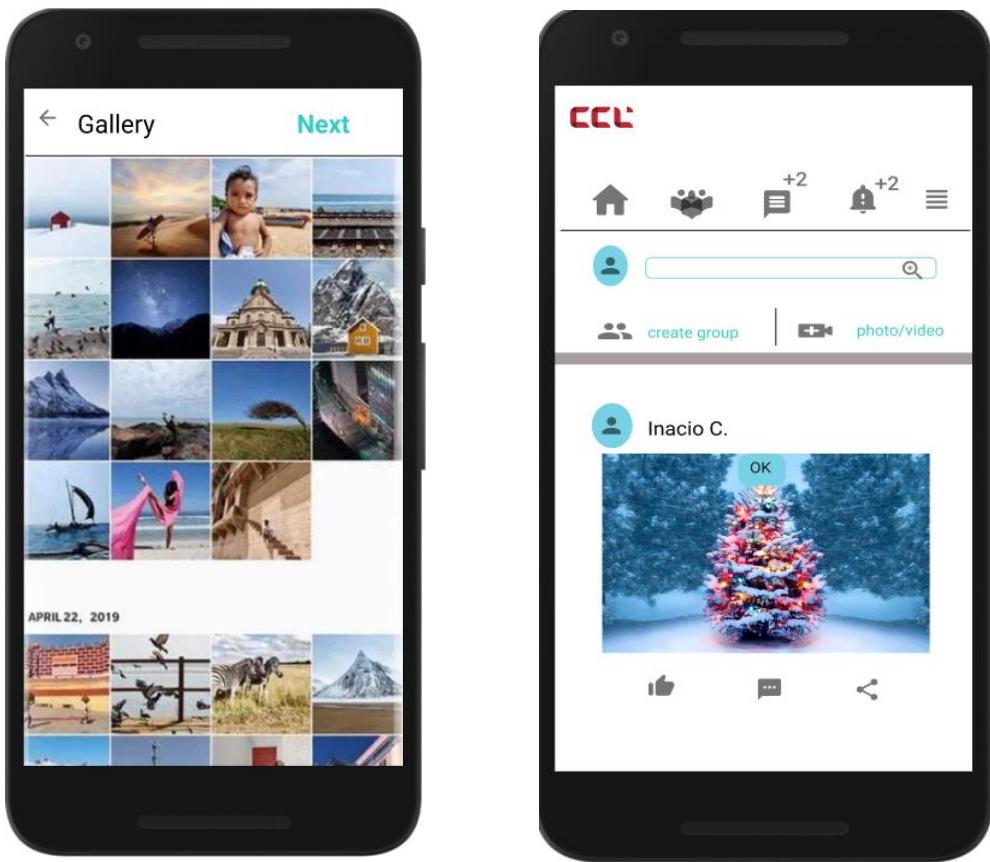


Like comment and share icon is almost same like facebook, intagram, share it and so on. And we put picture icon to add picture, chat to chat and bell icon to notification. And all the icon is provided by sigma.



Images

Thus, we really consider the vision problem and people that have disability in vision. When the user want to input an image we will bring them to gallery and pick the picture that they want. Of course will have perfect scale that make user able to see the picture and if the picture is many they can scroll down or up. The size is one picture in the screen when they had uploaded their image. Thus every scroll down is one content in the screen .

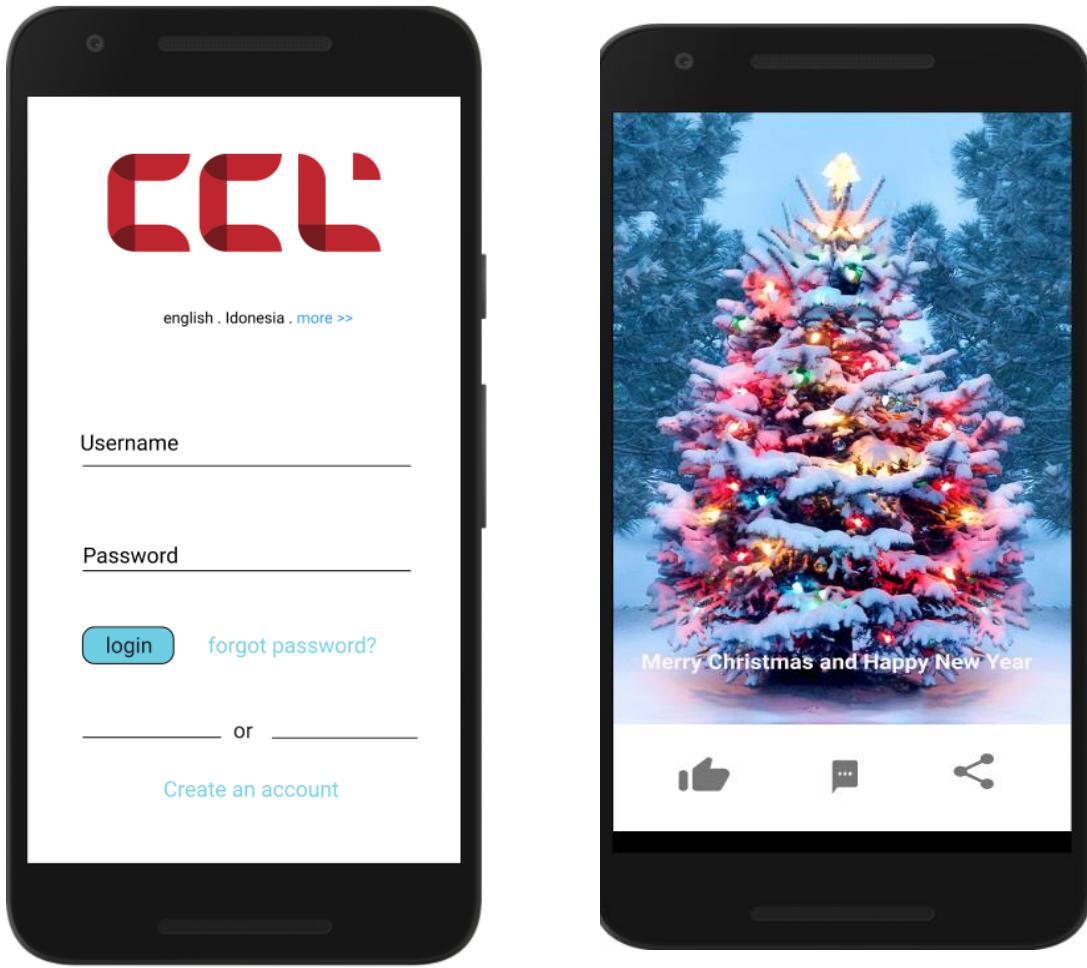


Colors

First of all I choose the color for the logo is red because this application is creating to help people **during this pandemic situation**.

In addition, every clickable text I assign to blue sky to make user know whether the text is active that can be click. And the text of the description have

to color black and white is you click the image and the description text color going to be white. Else the color will be black.



Conclusion

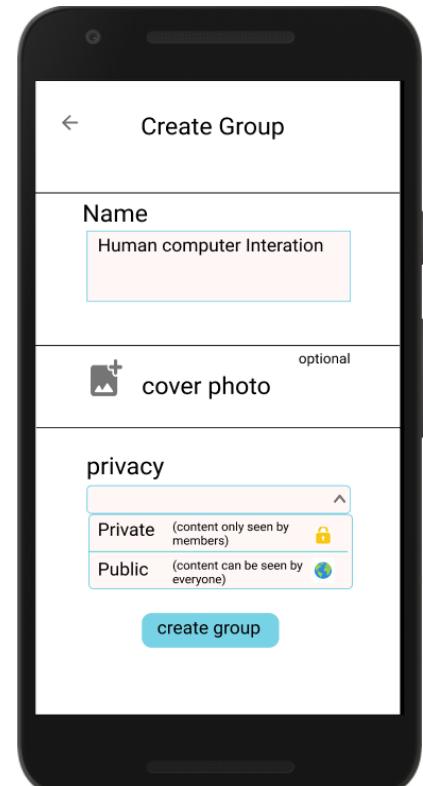
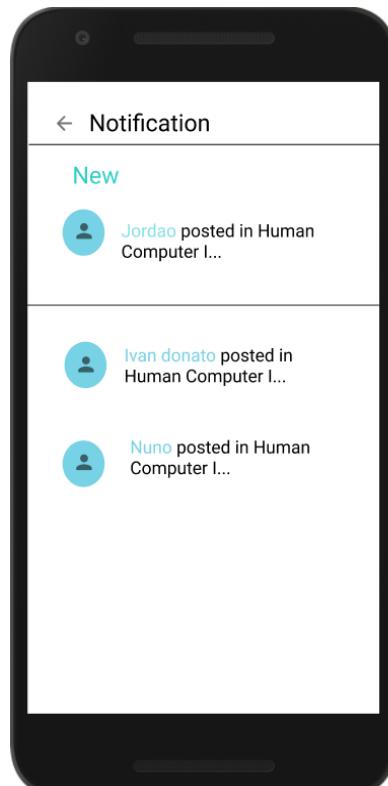
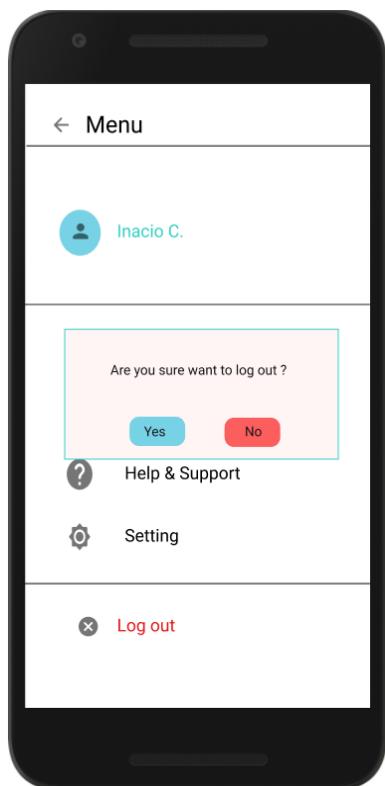
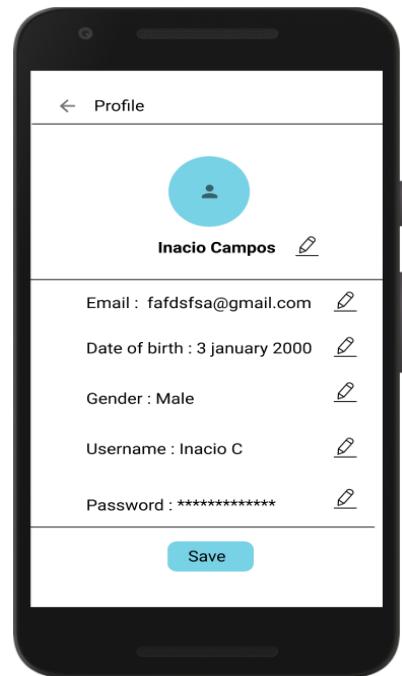
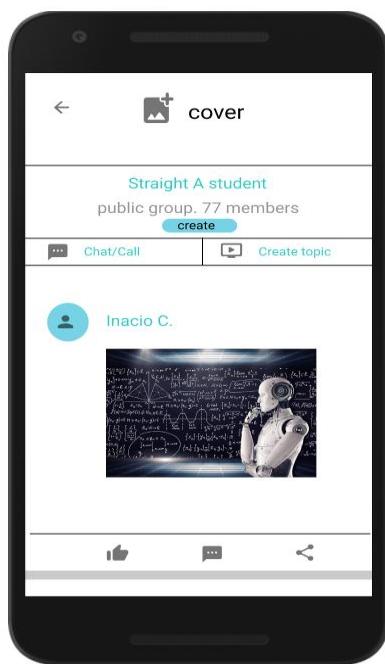
We know many people now days using social media, so the design will be around this social media application to give user a familiar looks and easy to understand.

Justification

I created more page for scale able size of image, change the color of the text when user click the image so the text can be readable, increase the size of the icon, change some button to text to make the design look better.

Step 13 Organizing and Arranging Windows and Page layouts & Step 14 Testing

13.1. Mock-up with improved layout



13.2. Justify a layout change

The main improvement that I made was the layout in the home menu because there is many information or data such as picture and videos. Thus I arrange the layout by grouping a content which is photo or video that will be separated by a line (that single gray line) and add some spaces to make the user not confusing to separate each content. Furthermore, when the user scroll down they are able to see each content without confusing on doing action to a content that they want to. And I apply the same thing to the group section. As in the other page I've arranged it really well like in notification I've set the new notification and old notification in its own group. So the user can see which notification is unread yet.

And I apply the same thing to the group, create group, menu and profile so everything is well arranged and easy to use and understandable.

13.3. 2 usability goals that will be tested and write the justification

Lab testing method

Justification : involves the testing of representatives users. I want to give this application to users to try. Specially those users that I have doing their persona.

Surveys and customer reporting methods

Justification: provides subjective data and is based on expressed feelings, attitudes, and perceptions of the interaction's usability and overall desirable qualities. I can directly receive the evaluation from the survey and report from the user's satisfaction about my application.

13.4. Test plan

I will send the prototype to the customers so they see and evaluate. The purpose is to find out what is still be fixed in order to fulfill the users need. Then I will analyze again the idea or report by user and fix the mockup if there is some request by the user.

And we will see the:

- Scope – How widespread is the problem?
- Severity – How critical is the problem ?

And then I will review the:

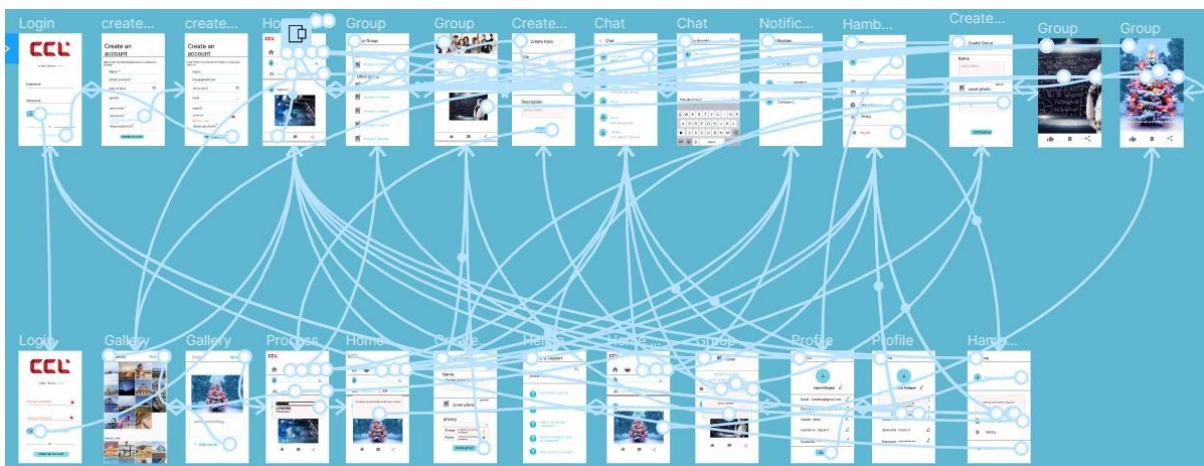
- Procedures
- Evaluator profiles
- Observations
- Evaluator quotes
- Conclusions
- recommendations

Prototyping & Testing Usability

Prototype

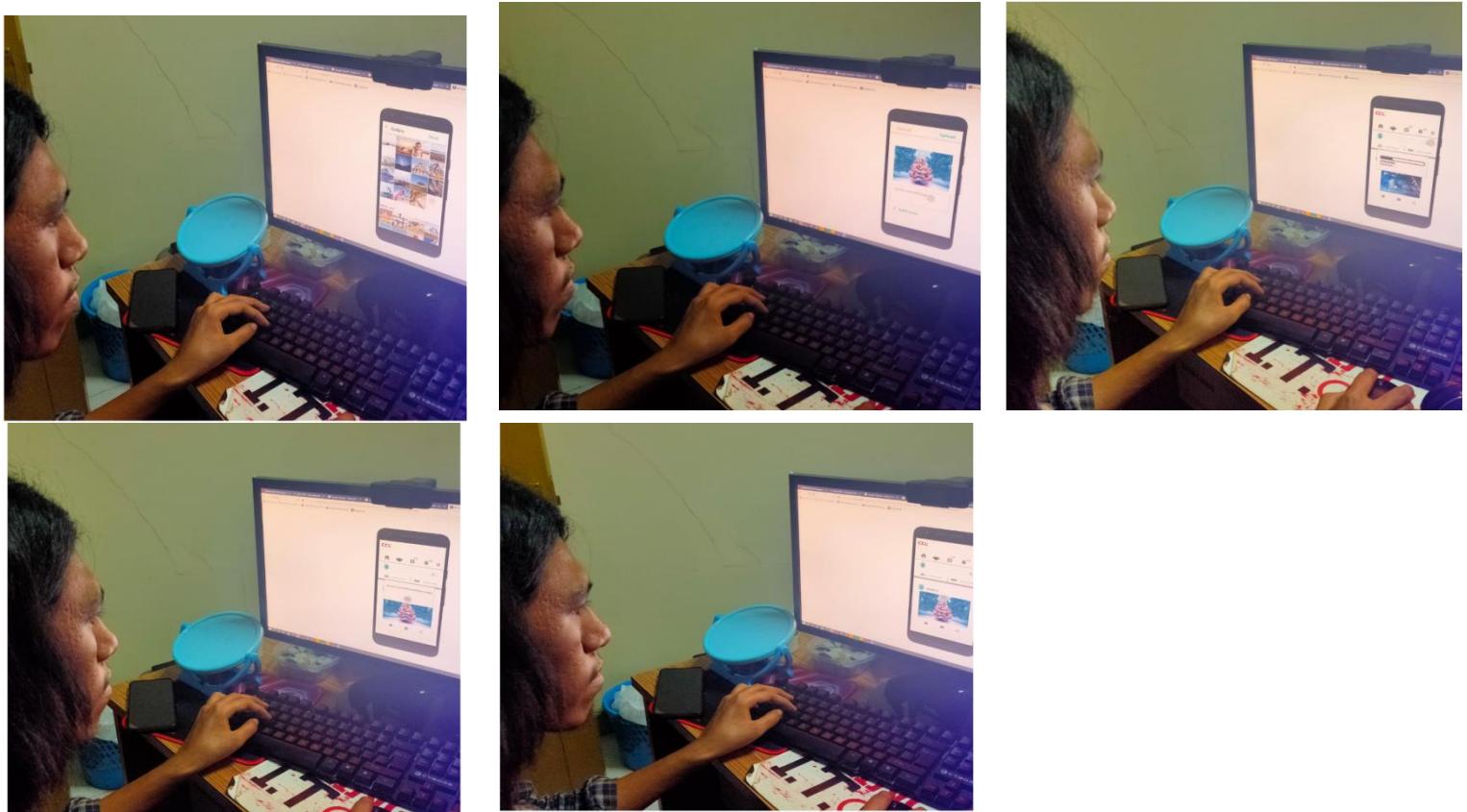
Since I am doing the mockup using Figma. I will continue the prototype using figma. This prototype will send to the participant to test and giving some response. So far I have 26 pages that going to be display in prototype. I will try to make as complete as possible and all the main feature are activated before I sent to the user who are tested.

<https://www.figma.com/proto/MeZYU8UPvlb8WC4UKzARnR/Untitled?node-id=3%3A81&scaling=scale-down>

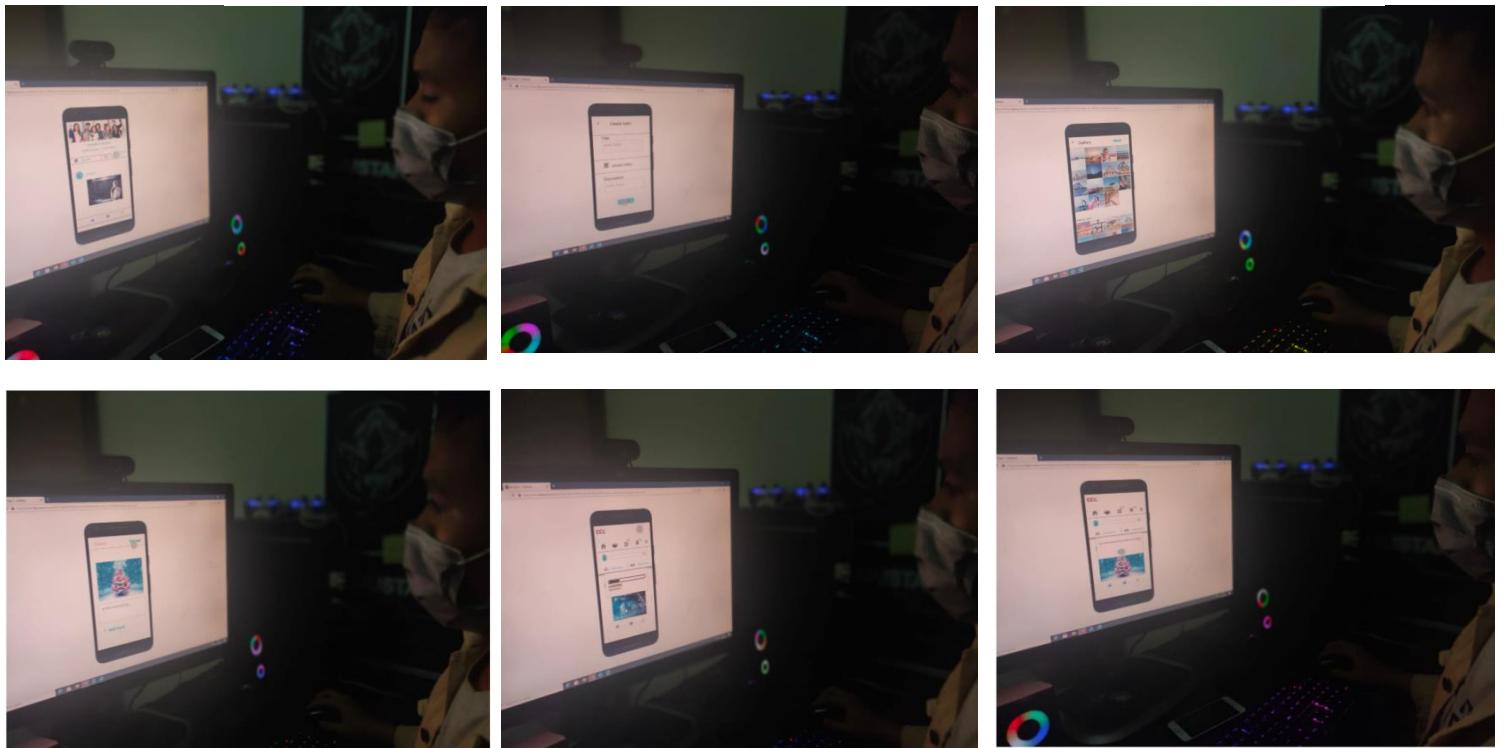


Evidence of testing

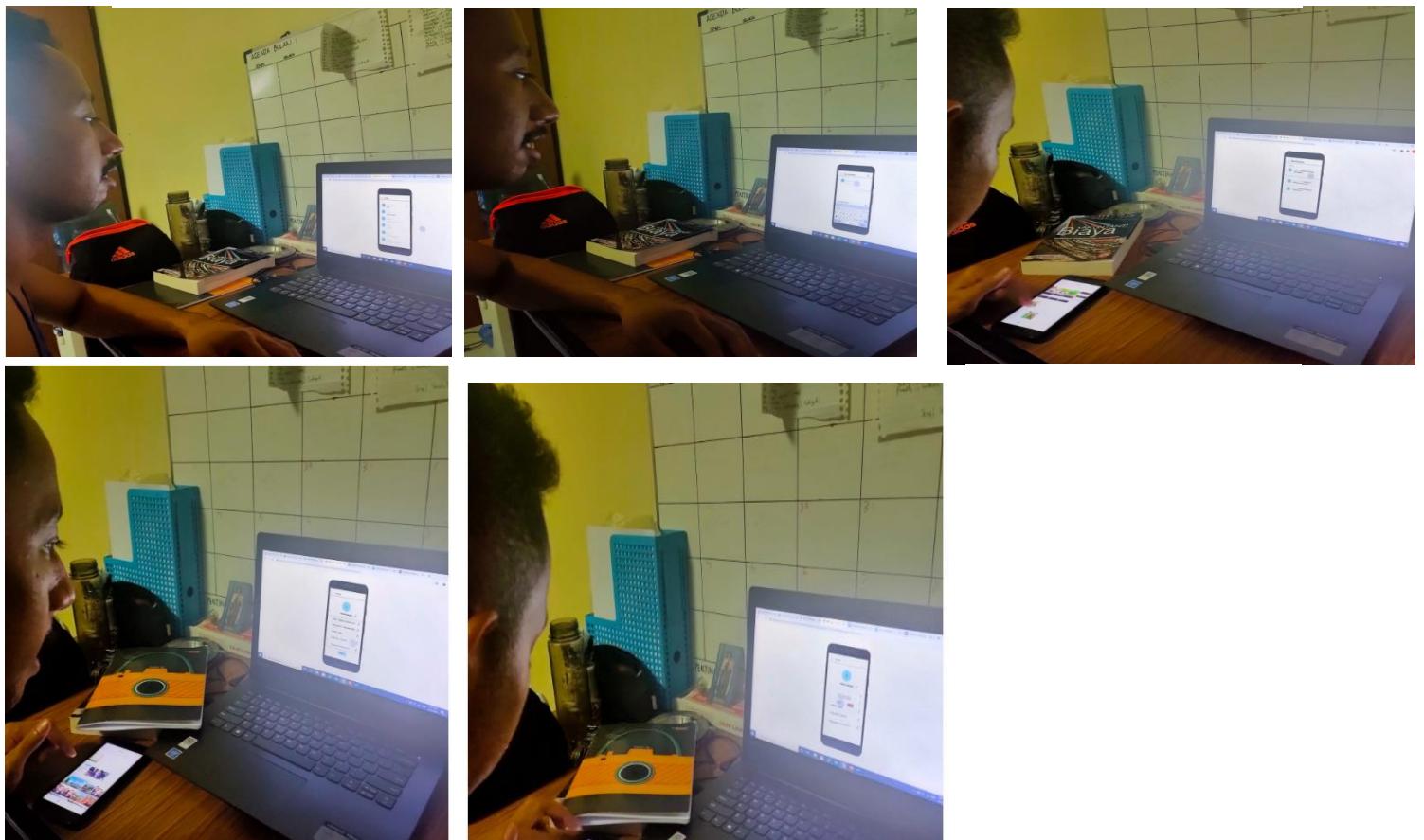
Alexandre (Focus on Home menu like, comment and share. And upload photo)



Binsar (focus on create group and create topic features)



Nelson (focus on chat, notification and profile featurues)



Test result

The responses from the participant after run the prototype:

Alexandre : The application is run pretty well specially in the main feature and the arrangement is pretty well arranged. But, we need more responses from the application to make the user well interacting with the application.

Binsar : The program is really nice and helpful. since, I was focus more in the Group feature the program is well arranged and nice display, but we need the application able to upload file and save file. and less features to find new group. But what I like from this application is the privacy of the group (private, public) with is make a group more efficient to the user that are joining the group.

Nelson : The application is great for a so solution of less interaction between students. The application is good because it's already have chat and calling feature. The design is pretty familiar to me. I am not confuse when I try this prototype.

Follow-up results

Alexandre:

- feel happy for the application design
- easy to use/understandable
- need to add more response and feedback from application
- make the button more fit

Binsar:

- Good design
- Feature of add topic is good but need more function
- Nice privacy feature
- Simple not complicated and easy to use
- Show member of the group

Nelson:

- The chat and call feature is nice to help user interacting.
- Notification is good by divide the New and opened notification
- Editing profile have to improve the design
- Simple not complicated and easy to use

Analysis of test results

From the result that respond by the participant I will improve some of the mockup design based on user need the list are:

- Participant is happy enough with my application design
- The function of the application is sufficient for interaction and collaboration between user
- Still need more improve in design of display (specially in profile and some flow in other page)
- Need more some icon for uploading file needed
- Need to make the application more responsive
- Less feedback of the application
- Rescale some button to fit in display
- Overall is good need to improve to be better.

Recommended design improvements and justification.

From the response of the participant I can conclude that the improvisation that I have to make are:

To make the application more responsive

- Add more Hover on icon.
- Adding more focus on icon
- Adding more feedback from application

To make user able to add file

- Adding upload file icon as a function of upload file(pdf, word etc.)
- Adding feature download of save file

Creating Group and Button

- Add description box on creating group to make user know what is the group focus on.
- Create join button

Design

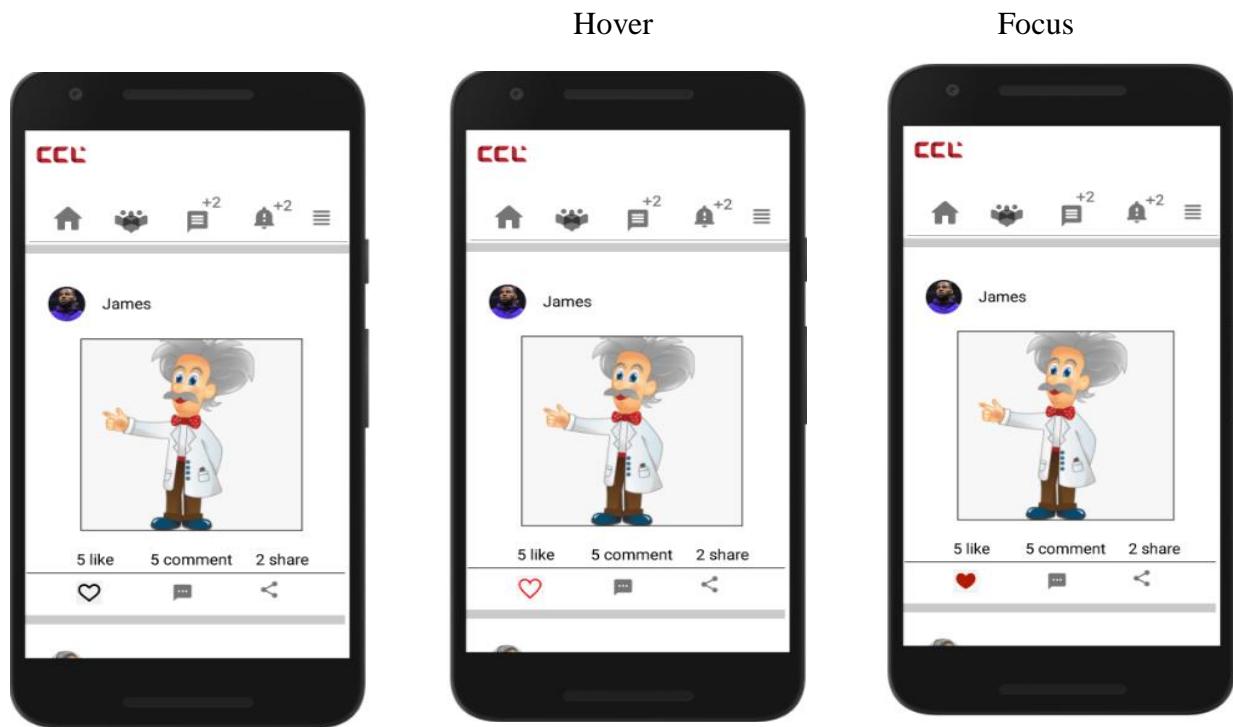
- Change the design of Profile (make more complete and interesting)
- Display more information about user in profile
- Make new page for editing profile so user can redirect to the page when they edit profile.
- Rescale the button and the picture.

Justification:

From the recommendation that I managed to do is based on user need and really important make the application well interact, good in eyes. And we consider some user that have disabilities (listening, visual etc). I tend to make this application usable by all the people around the world. And I will try to make the application as simple as possible and have as many function as possible base on the purpose of this application.

Here is some example of fixed mock up and some evidence of the interview that I have done to the participant:

- Adding hover and focus



More evidence of prototype and interview process:



REFERENCE

Telkom University School of Computing Slides.

<https://www.clariantcreative.com/blog/creating-personas-interview-questions-to-get-you-started>

<https://www.hotjar.com/blog/user-personas/>

<https://medium.com/nyc-design/ux-ui-design-process-for-beginner-753952bb2241>

<https://careerfoundry.com/en/blog/ux-design/the-ux-design-process-an-actionable-guide-to-your-first-job-in-ux/>

PROTOTYPE

Mockup:

<https://www.figma.com/file/MeZYU8UPvlb8WC4UKzARnR/Untitled?node-id=0%3A1>

Prototype:

<https://www.figma.com/proto/MeZYU8UPvlb8WC4UKzARnR/Untitled?node-id=1%3A2&scaling=scale-down>

Video presentation:

<https://youtu.be/OHVBHwWmxkk>