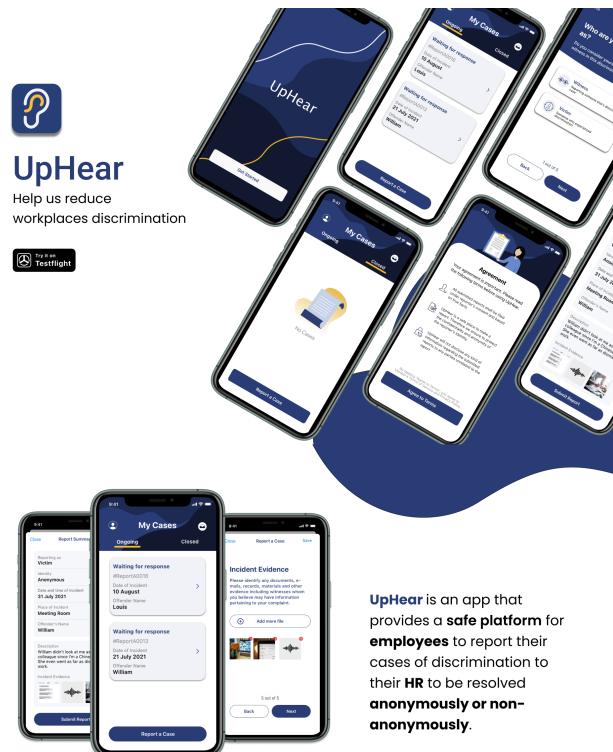




Mini Challenge 3 - UpHear

☰ Technology	Accessibility Airtable Firebase MVVM SwiftUI TestFlight
☰ Design	Hi-Fi Illustration Lo-Fi SwiftUI Wireframe
☰ Platform	iOS
☰ Project Brief	UpHear is an app that provides a safe platform for employees to report their cases of discrimination to their HR to be resolved anonymously or non-anonymously.
⌚ App Icon	
✔ Challenge	Mini Challenge 3
✔ App Category 1	Utilities
☰ App Category 2	Social Networking
👤 Members	
↗ Related to C4 Student's Challenge Database (Project Documentation 1)	
☰ App Store Link	
🔗 Test Flight Link	https://testflight.apple.com/join/lipHcocz
🔗 Link Github	https://github.com/Blimpi/UpHear
↗ Related to C4 Academy Team-Role Experience (Project Documentation)	



UpHear is an app that provides a **safe platform** for **employees** to report their cases of discrimination to their **HR** to be resolved **anonymously or non-anonymously**.

Project Background

Discrimination is a serious and an ever growing problem in Indonesia's working environment right now. However, little is done by the companies to resolve this problem. Because of this, more and more employees are suffering from being discriminated at their workplace.

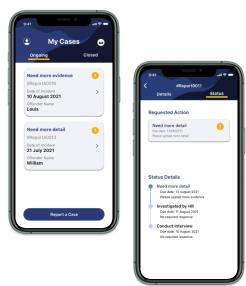
According to our research

5.117 recorded news about discrimination in Indonesia collected from 1 January to 10 August 2020

>44% workers in Indonesia experienced discrimination in the workplace

Problem Statement

"We found that many of our interviewees **did not speak up about the discrimination that happened to them because the risk of ruining their career**. In addition, the **lack of information** regarding overcoming discrimination in the company's system through the HRD Division, makes the issues of **discrimination unsolved**."



Solution Concept

UpHear aims to reduce discrimination by **providing a safe platform** for employees to **report their cases of discrimination** to their HR. Employees are able to report their case **anonymously or non-anonymously**.

Furthermore, the **HR can see the details** of their report and **investigate the case** further without knowing the identity of the reporter. To let the reporter know the progress of their reported case, the HR can also **provide the status for each case**.



Research Process

Interviews with Experts, Victims and Business Stakeholders

To understand the problem in more detail, we conducted several interviews with victims of discrimination to know more about their pain points and how we can help them in solving this problem. In addition, we asked HR representatives to uncover the troubles they currently have regarding this problem. Finally, we interviewed business stakeholders to understand their point of view about this problem and what their company is doing to help solve this problem.

Victim's Persona

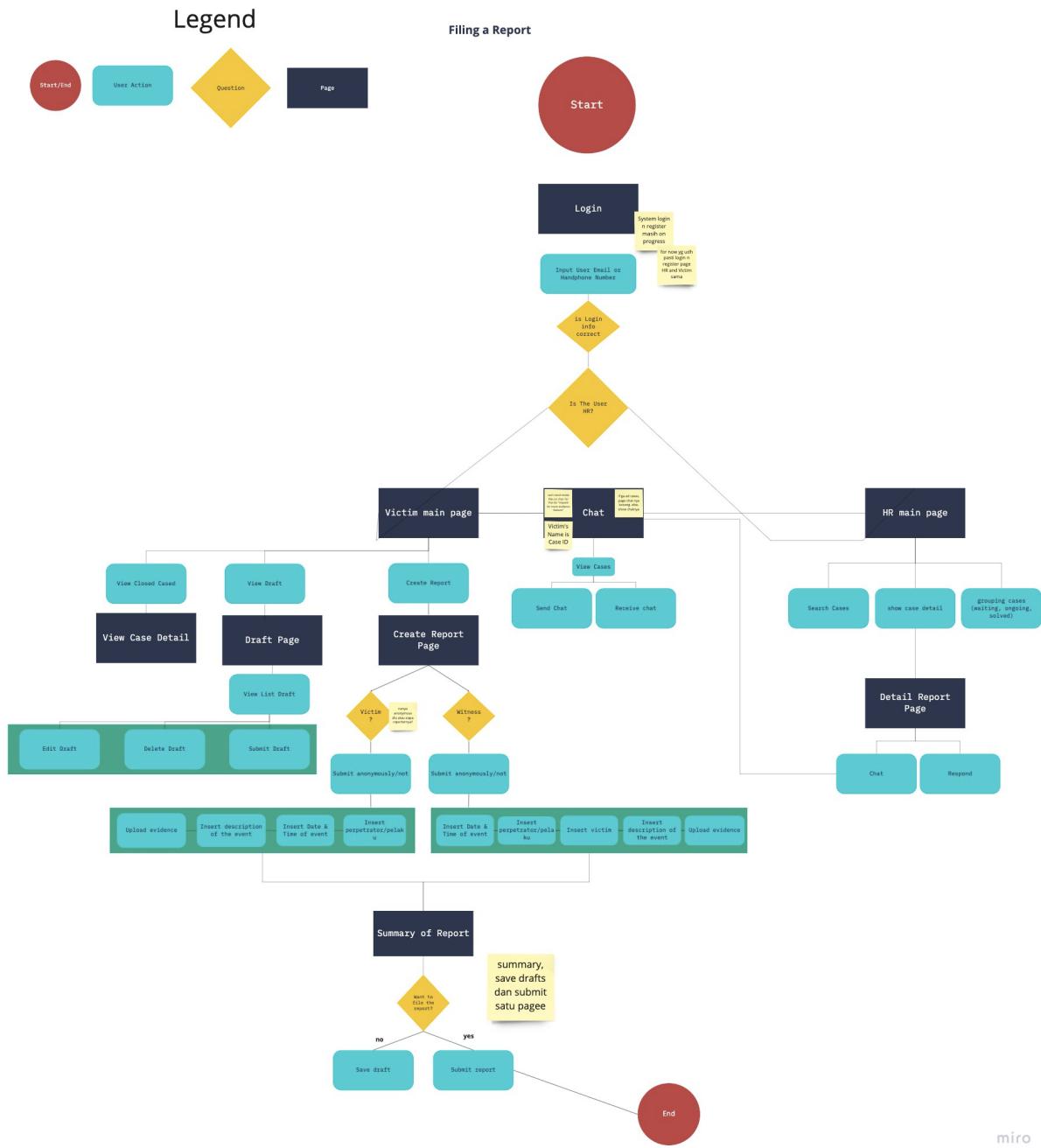


Design Process

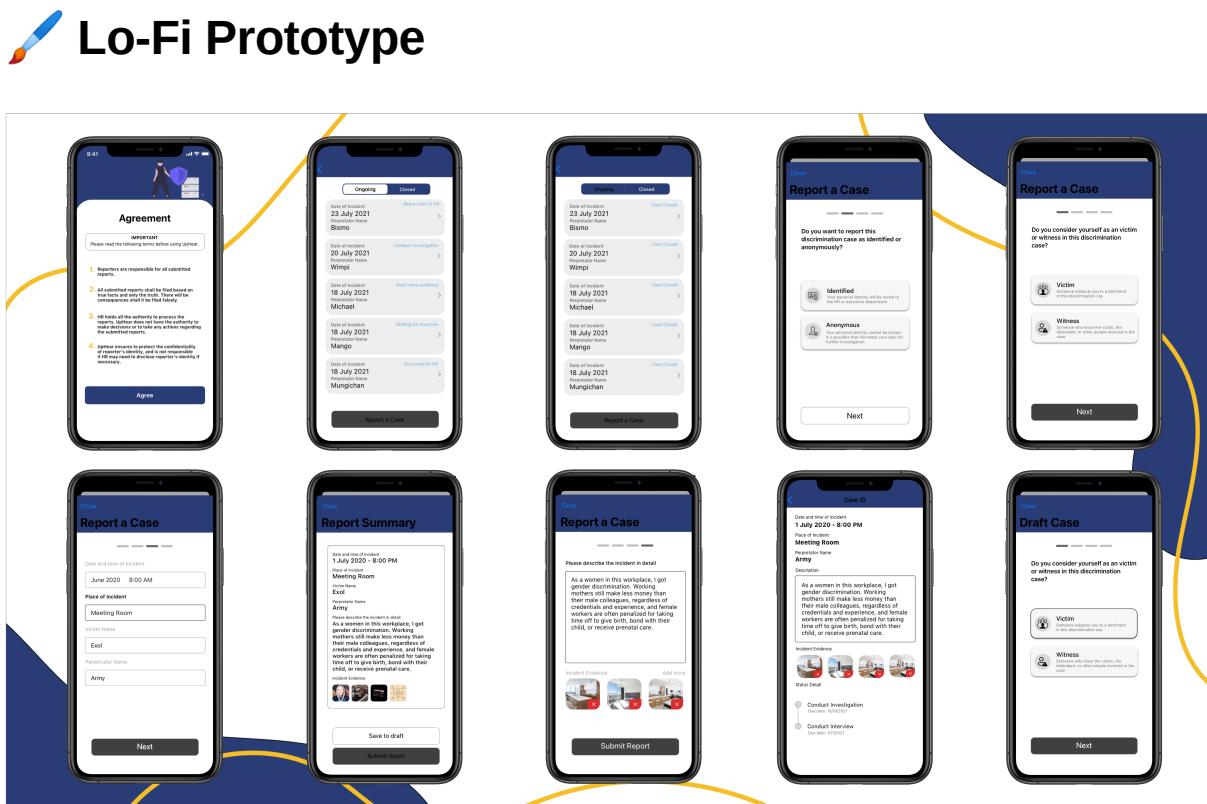
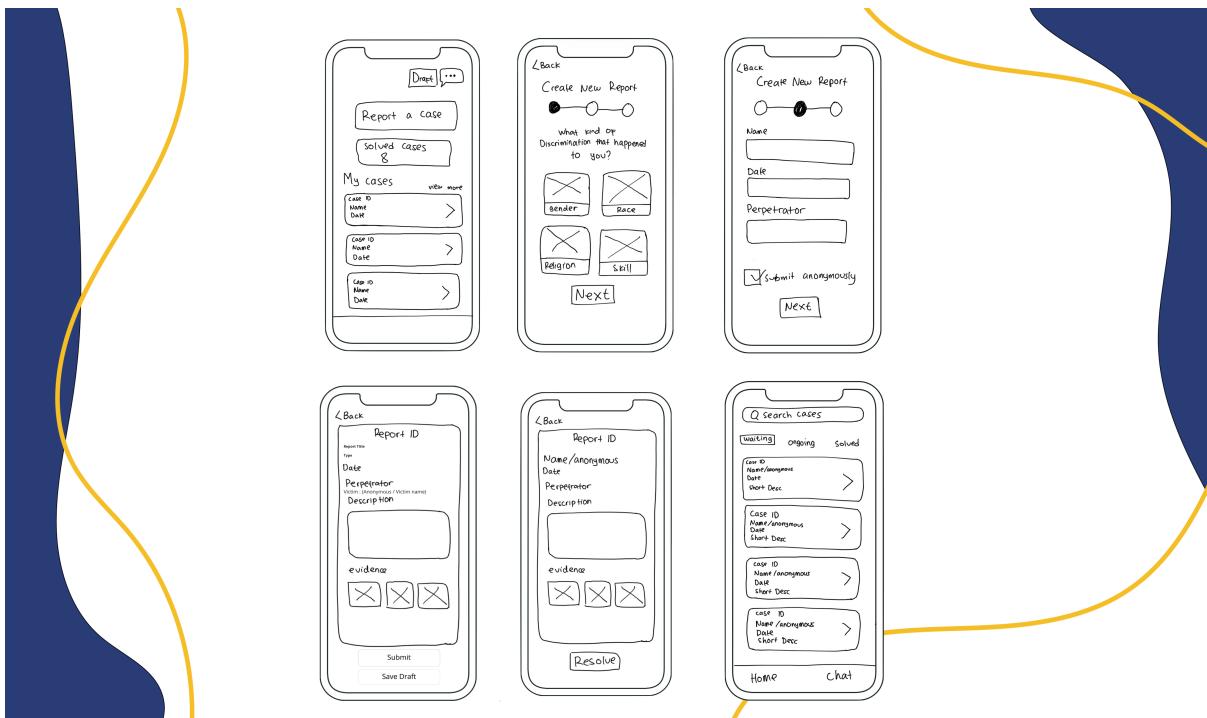


User Flow

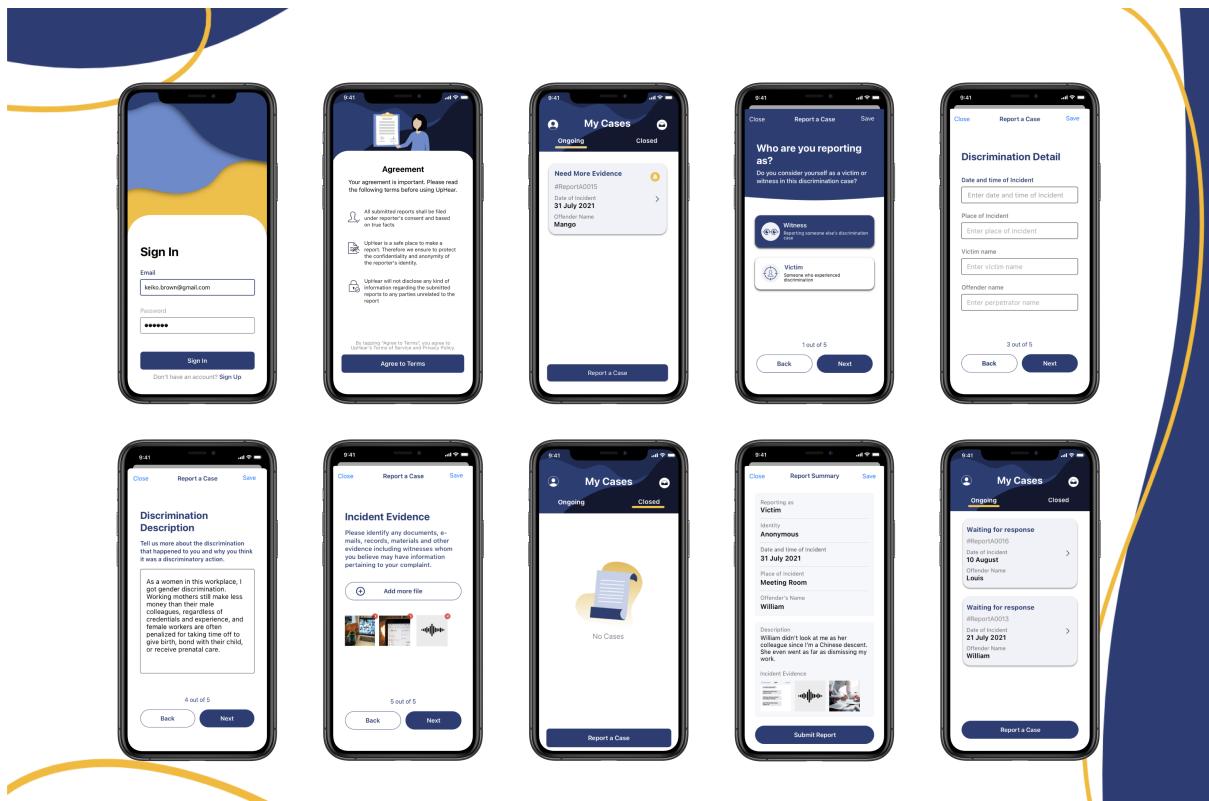
APP FLOW



Wireframe



Hi-Fi Prototype



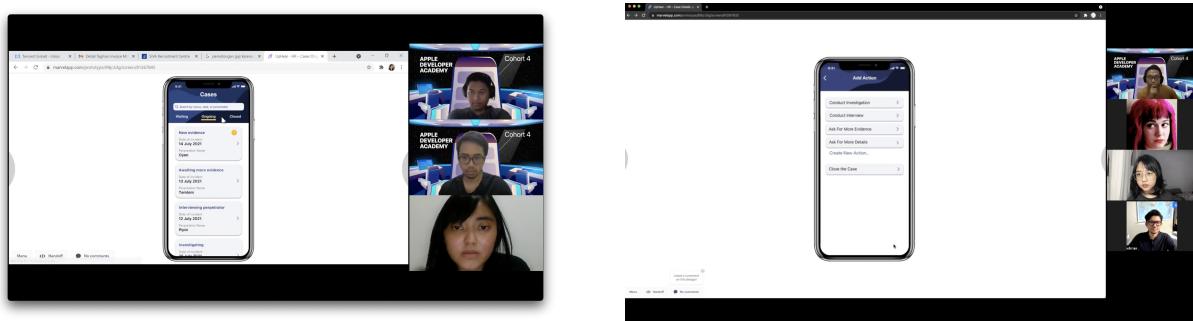
⌚ Apple Watch Prototype



HR



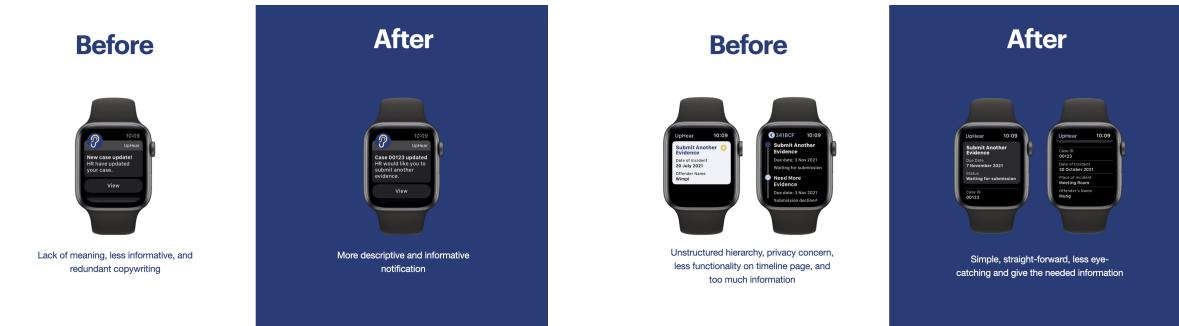
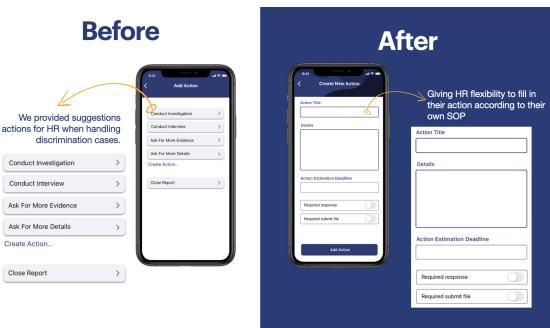
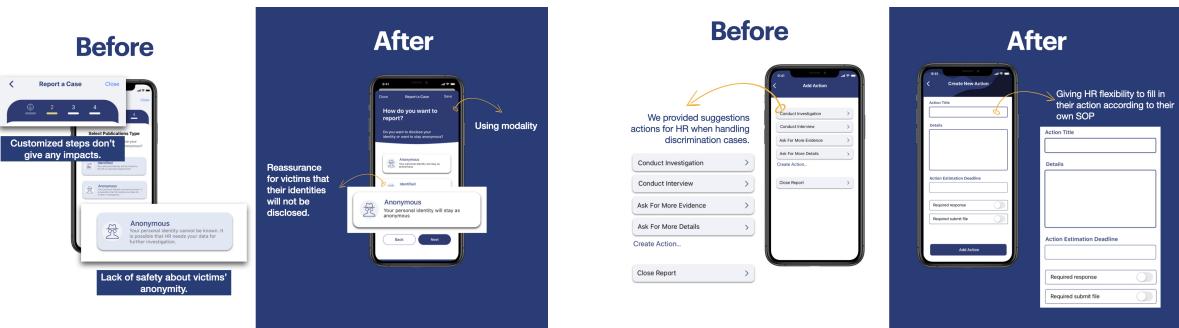
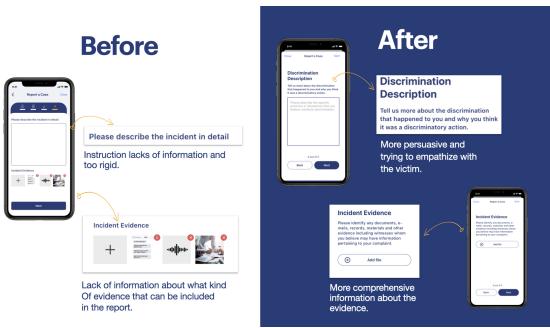
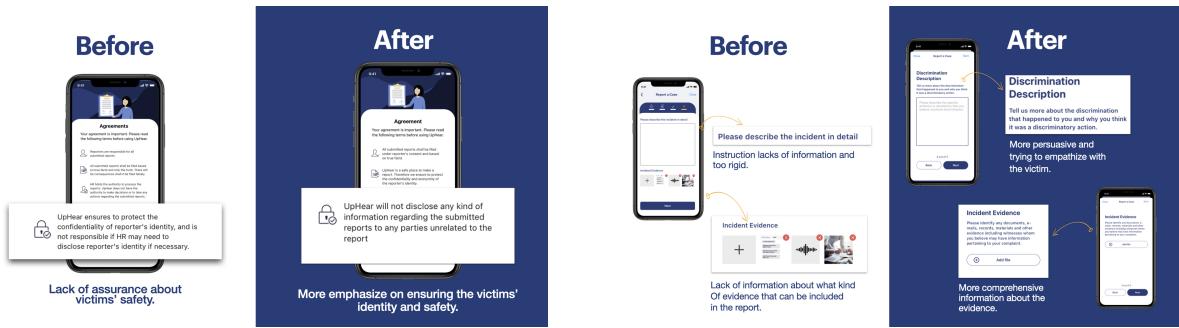
Usability Testing



We conducted Usability Testing with workers who experienced discrimination and HR from many different companies. From the usability testing process, we gained a lot of feedbacks and insights regarding many aspects including the design, copywriting, discrimination reporting system and how to handle it in companies, and also about the user experience when they're using our app. The result of our Usability Testing can be seen in our Iteration Process.



Iteration Process



Technical Process



SwiftUI

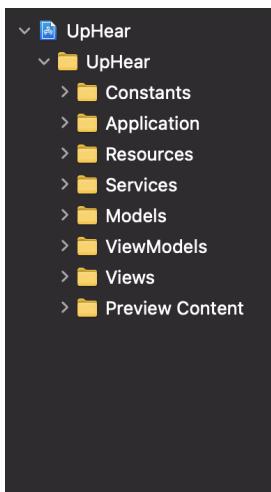
We explored the capabilities and features of SwiftUI and used it as the main framework for the development of this Project. SwiftUI is a user interface toolkit that lets us design apps in a declarative way. This framework lets us develop user interfaces for any Apple platform. Through this



framework, we are able to create beautiful, dynamic apps faster than ever before.

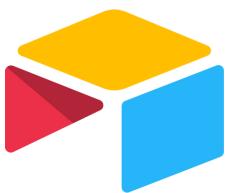


MVVM - Architectural Pattern



Because we used SwiftUI as the main framework for the development of this project, we also needed to implement a new architectural pattern called MVVM. MVVM is short for Model, View, View-Model. This pattern helps the developer to separate the Model, which is the data, from the View, which is the user interface (UI). The View-Model part of the MVVM is responsible for exposing the data objects from the Model in such a way that those objects are easily consumed in the View.

☁️ AirTable



To save and manage our app's data, we used AirTable as our cloud database platform. AirTable is an online system where a group of developers can store, share, and collaboratively edit information.

🔥 Firebase

We also utilised Firebase as a cloud storage for storing images and files uploaded from the device running our app. Firebase



provides tools for developers to track analytics, report and fix app crashes and many more. We integrated Firebase into our project using Pods

□□Accessibility - App Localisation



To make our app accessible to non-english speakers, we implemented an accessibility feature called App Localization. Through this feature, Indonesian users who aren't able to understand english can still use the app. In addition to the english language, we also added Indonesian language.



Promotional Video

<https://youtu.be/Jb4h9m0Oh6E>



App Demo

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/fc7734a1-167f-4992-b9d1-3968b187bd85/MC3_-_Group_Blimpi_-_UpHear_-_App_Demo.m4v

Take a look at our Keynote Presentation!

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/ef318778-c491-4619-a980-56722fecca85/UpHear_-_MC3_Talks.pdf

 Try UpHear Now on TestFlight!



Help us reduce
workplaces
discrimination.



□ Meet The Team!

