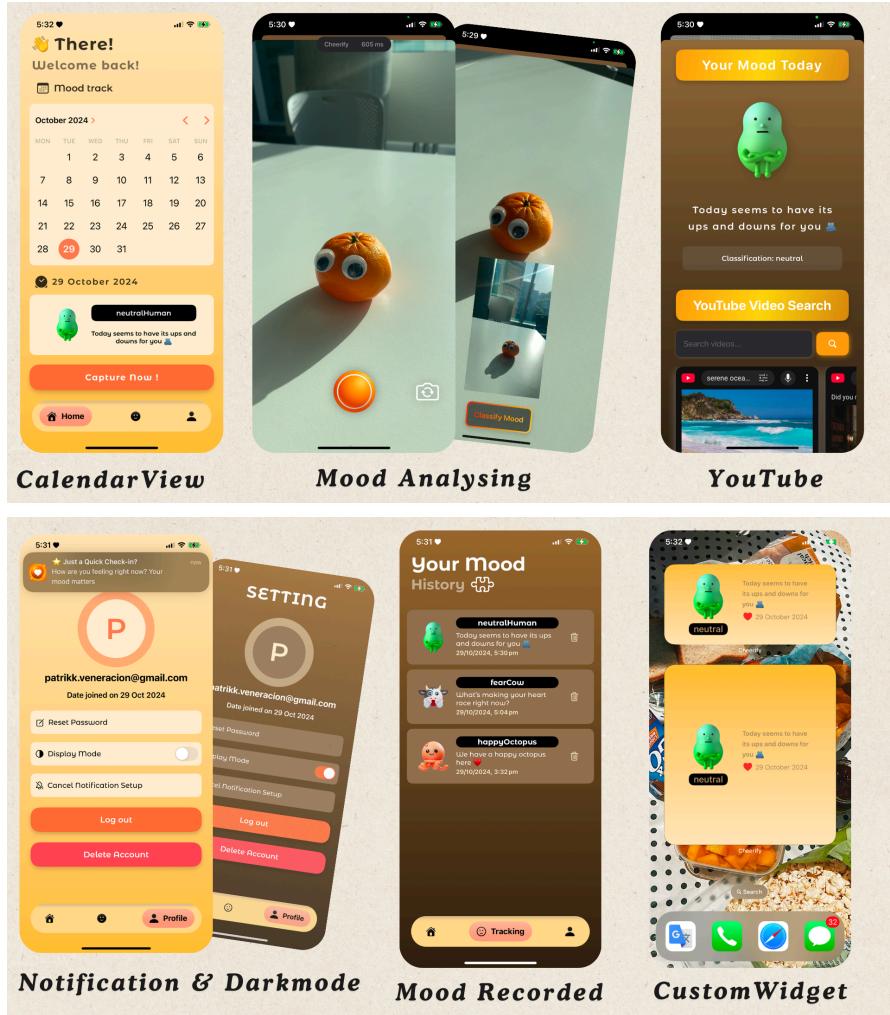


APPLE STORE DOCUMENTATION

Cheerify App

Cheerify - Snap, Understand, and Uplift your mood! Track your mood and get personalised video recommendations to brighten your day!

Preview of the App



Cheerify Features

1. Express your mood with our facial analysing feature
2. Real-time mood widget displaying
3. Personalised recommendations from YouTube
4. Allowed Multiple Users Usage
5. Create an account and synchronise your feelings with Cheerify
6. Reduce eye strain and enjoy a better user experience.
7. Be reminded when and how you want by triggering notifications

APPENDIX

Group Work Contribution

The following is the group work contribution for the Cheerify Application

Student Name	Student ID	Tasks	Percentage	Signature
Thi Thu Hang Vu	24621474	<ul style="list-style-type: none"> ● Search 2000 images and trained the model with CoreML. ● Design the high-fidelity prototype in Figma. ● Created the MoodViewModel and connected the view with the MoodClassification (data trained). ● Implemented the YouTubeView in the ResultView to provide the user the recommendations based on the mood. ● Created the CameraView and connected this view to analyse the user mood. ● Created one system extension which is the Widget of Cheerify application. ● Design the app logo, font of the app, and provide all mood icon pictures. ● Provide comments to the code and develop the Cheerify documentation. 	50%	
Olivia Lim	24677078	<ul style="list-style-type: none"> ● Search another 2000 images and trained the model with CoreML. ● Design the high-fidelity prototype in Figma. ● Created the Login, SignUp, Profile and connected the application with Firebase for authentication. ● Created the WelcomeView for Cheerify Application. ● Implemented the dark mode functionality throughout the Cheerify Application. ● Implemented the CalendarView in the HomeView and connected it to the user's current mood by using CoreData. ● Created one other system extension which is notification for Cheerify application. ● Provide comments to the code and develop the Cheerify documentation. 	50%	

Error Handling Strategy

Our group has handled errors by utilising the guard let statements and do catch block. The following is the example code that handles the error in CameraView.

```
func setupCamera(position: AVCaptureDevice.Position) {
    session.beginConfiguration()

    // Remove existing inputs
    if let currentInput = session.inputs.first {
        session.removeInput(currentInput)
    }

    guard let camera = AVCaptureDevice.default(.builtInWideAngleCamera, for: .video, position: position) else {
        print("No camera found!")
        return
    }

    do {
        let input = try AVCaptureDeviceInput(device: camera)
        if session.canAddInput(input) {
            session.addInput(input)
        }

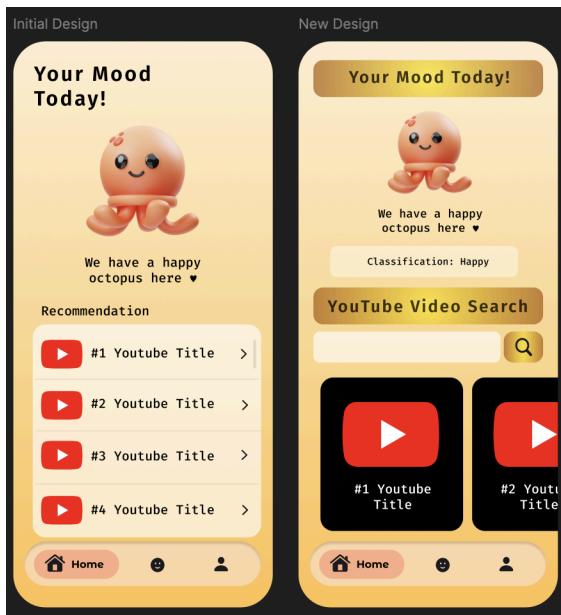
        if session.canAddOutput(output) {
            session.addOutput(output)
        }

        session.commitConfiguration()

        // Start the session on a background thread to avoid UI blocking
        DispatchQueue.global(qos: .userInitiated).async {
            self.session.startRunning()
        }
    } catch {
        print("Error setting up camera: \(error.localizedDescription)")
    }
}
```

Online Research (Figma Link)

User feedback has been gathered while developing the Cheerify application, especially for ResultView. The changes can be seen in the picture below.



System extension research:

- Widget
<https://developer.apple.com/documentation/widgetkit/creating-a-widget-extension/>
- Notification
<https://developer.apple.com/documentation/usernotifications/unnotificationserviceextension>

<https://www.figma.com/design/bkzSQj7xLFPC5kEW1Gpag4/Cheerify-Design?node-id=6-11&t=c86g4d2VGeG1wfCb-1>.

User Instructions

1. The user should register their email and create the password using Sign In.
2. After that, the user should log in with their email and password
3. To capture the first mood, the user should click the “Capture now” button and take a picture of their face.
4. After taking the picture, the user clicks “Analysing mood” so that the application can analyse the user’s picture and categorise it.
5. The user will get a recommendation video based on their mood through YouTube and save it.
6. The saved mood will be displayed in homeView, historyView, and widgets.
7. The user can change the display mode and set up the notification for this application.

Guidance if something error with the code

Please look at this video to fix it:

https://drive.google.com/file/d/1HamRh2s2Fl03fc1KQpqzAVkNr5fnAcdj/view?usp=drive_link