

# Attendance App

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Track Attendance on the go

By:  
Aditya Kamath  
Rushab Dwivedi

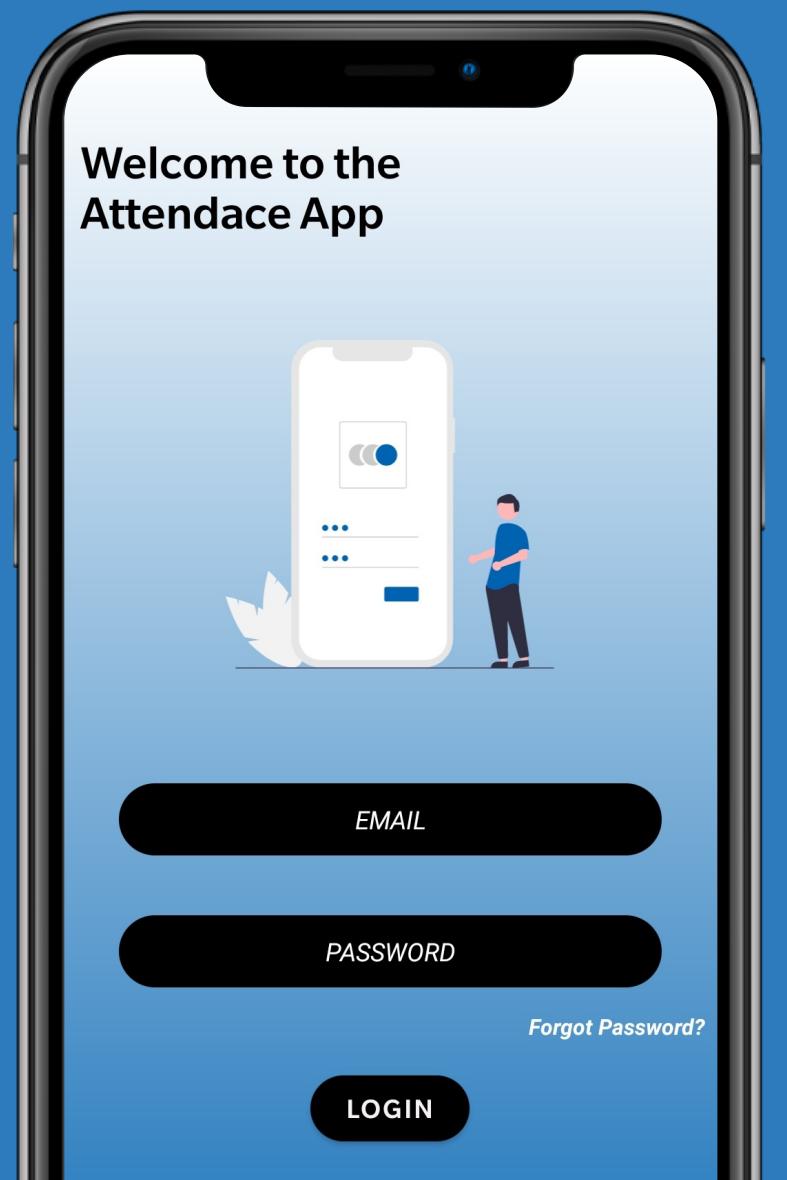
# Project description

- The employer can get all the detailed information of the employee through this app. Information of clock-in or clock-out using geolocation can be stored.
- Create a simple app where there are 3 kinds of users:
  - Employee
  - Employer
  - Admin
- Track and download the attendance of Employee.



# Over View

- The App can be accessed on any android mobile device with full security and safety for personal information.
- Features:
  - Sign-up and login
  - Upload the current Location
  - Search Feature
  - View Pdf

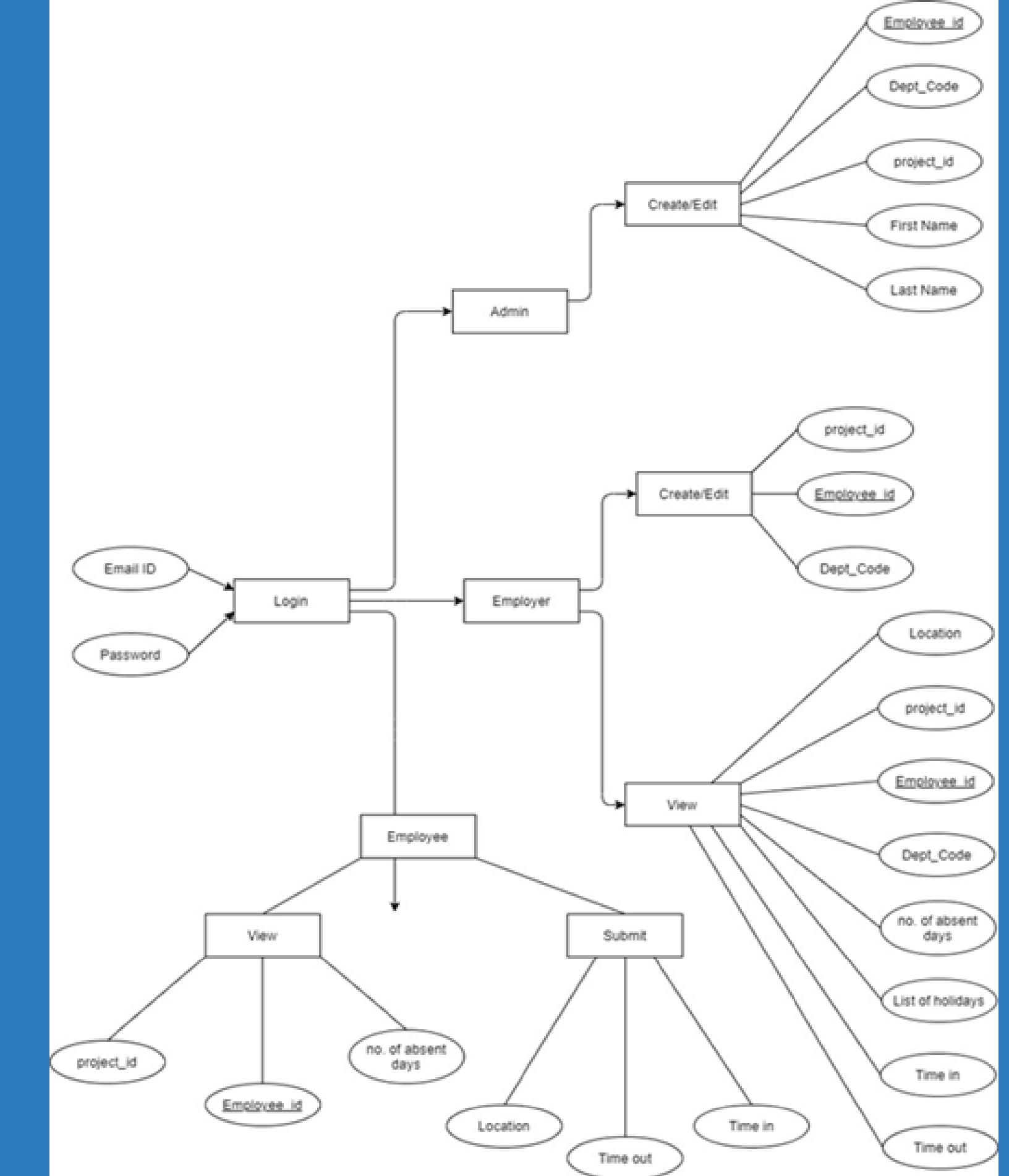


# Technology Specifications

- Development Platform: Android Studio
- Operating system: Android
- Language: java
- Database:
  - Firebase Authentication
  - Firestore
  - Firebase Storage

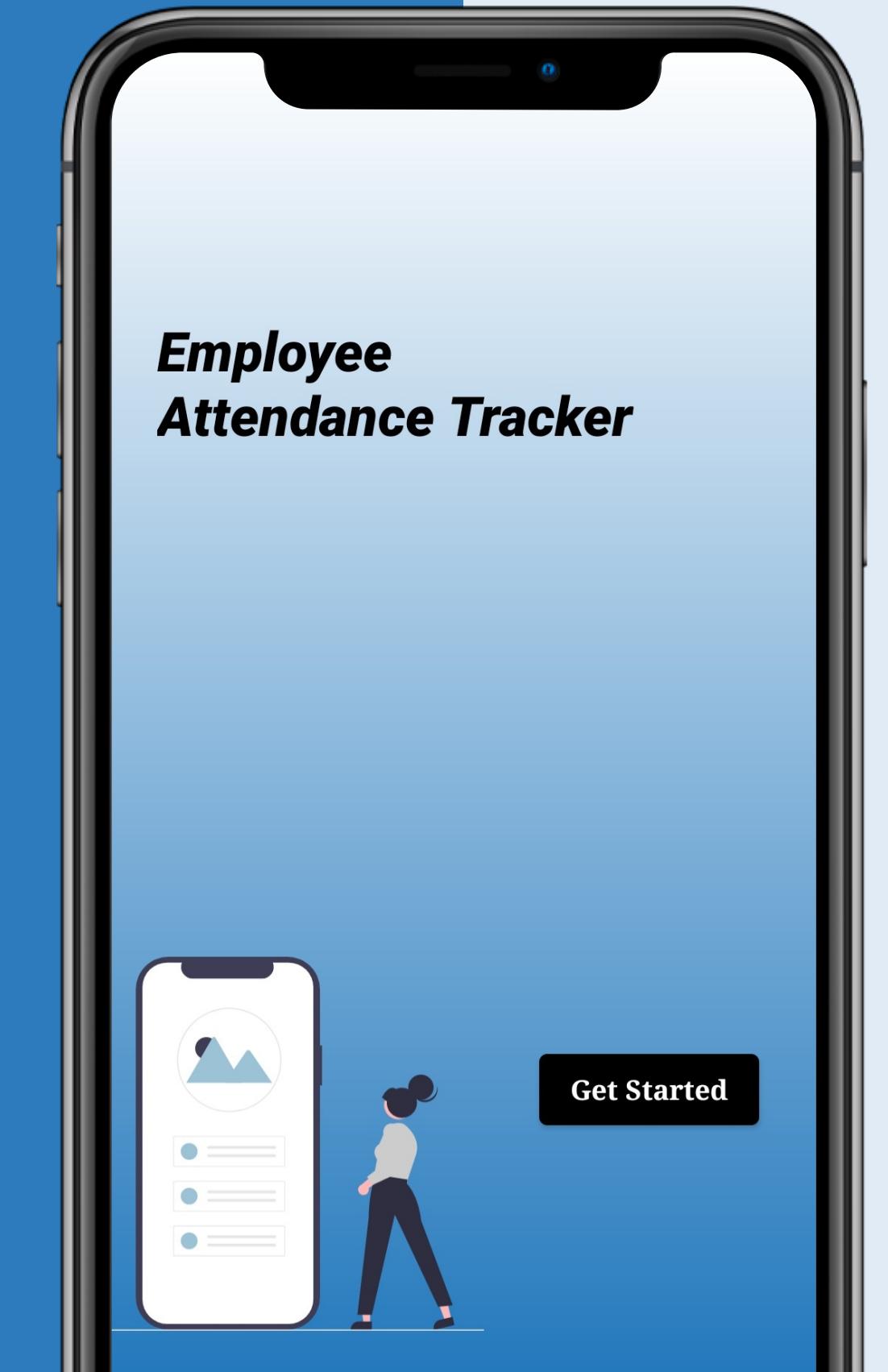


# Flow Chart

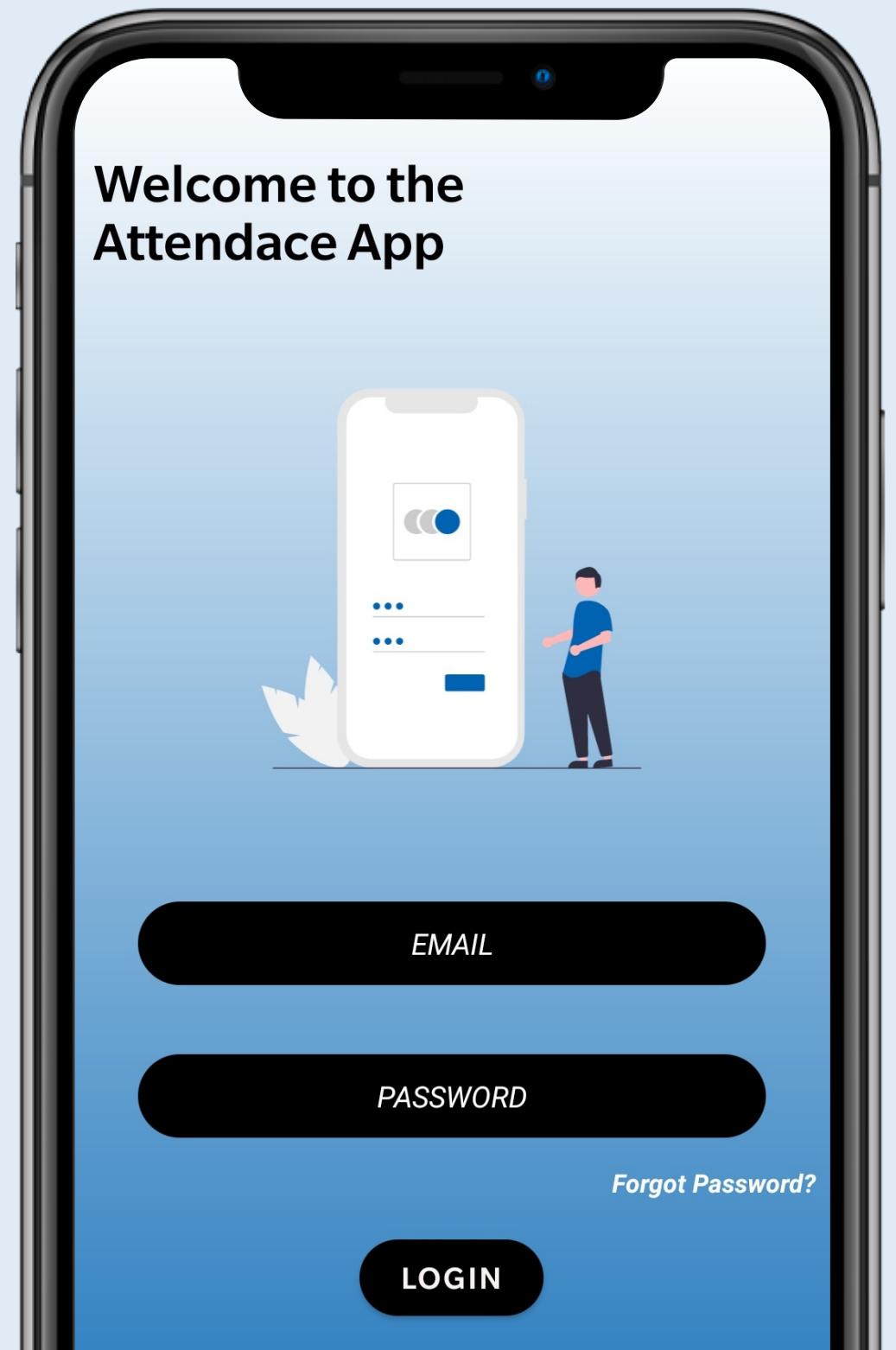


# USER INTERFACE

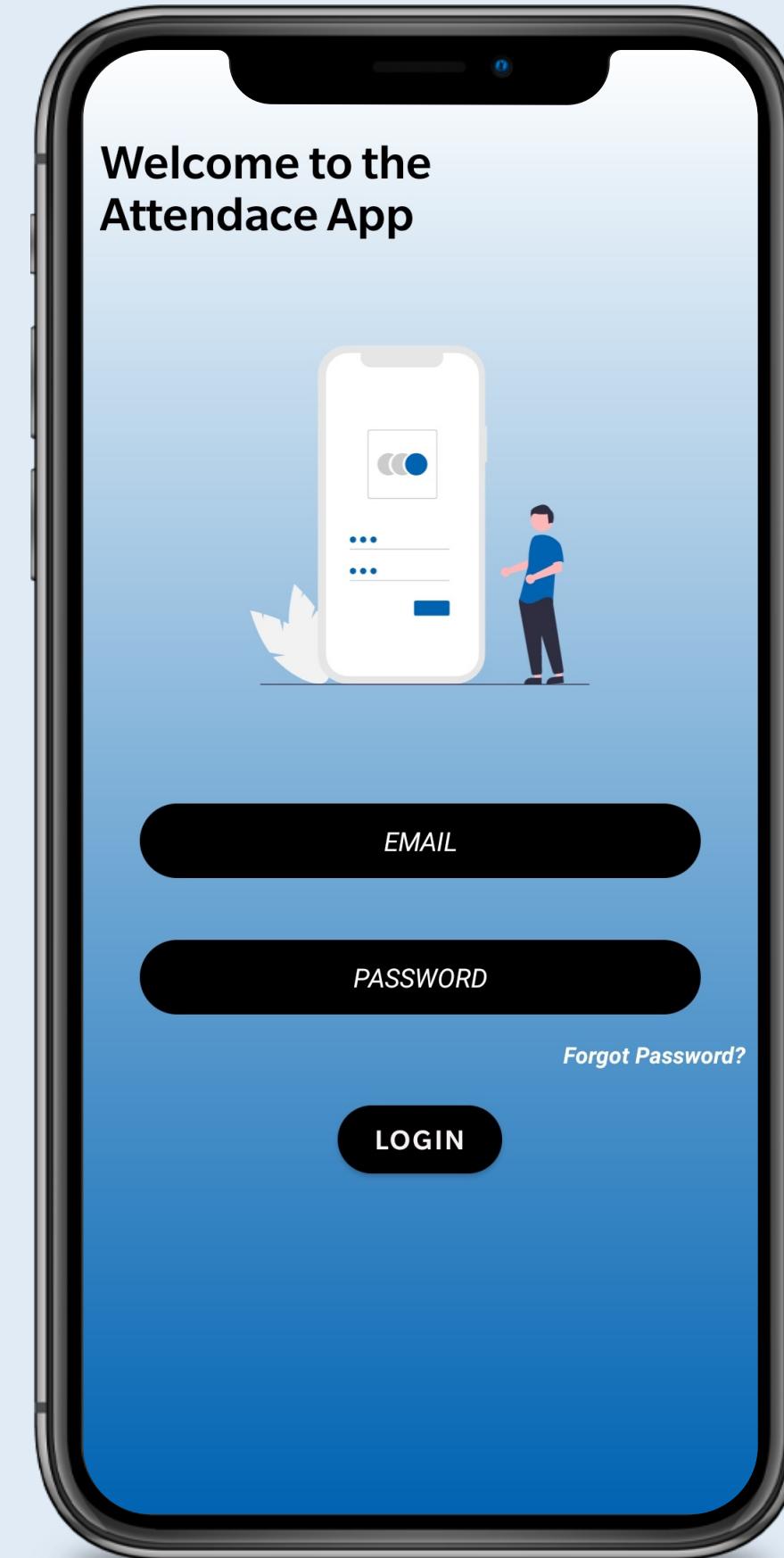
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# LOGIN PAGE



# Types of Users



## EMPLOYEE

Employee account is created by the Employer. Employee will receive the app credentials in the mail along with a link to download the app.

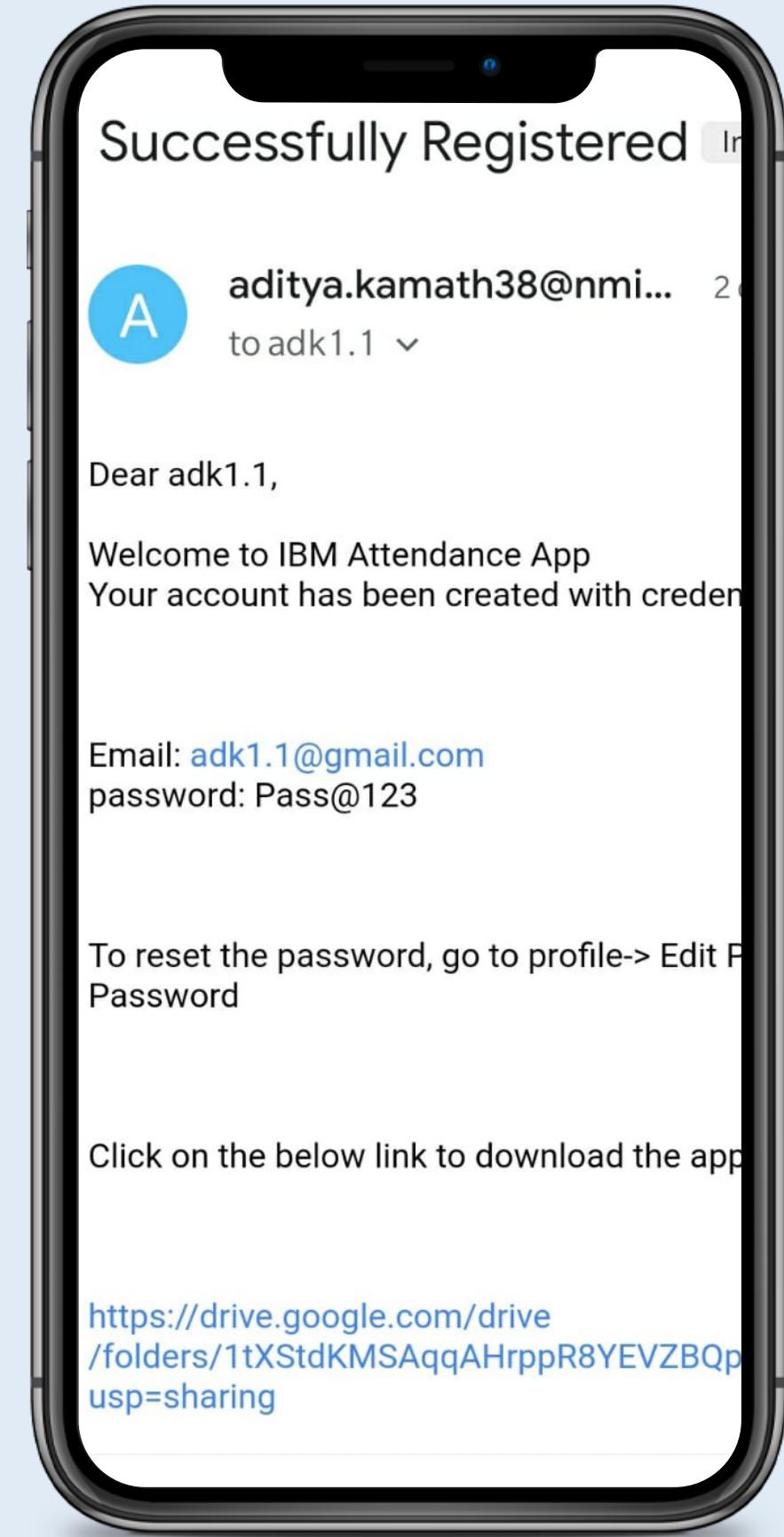
## EMPLOYER

Employer account is created by Admin. Employer will receive the login credentials in the mail along with the link to download app.

## ADMIN

Admin can edit office timings and view list of employers and employees under them.

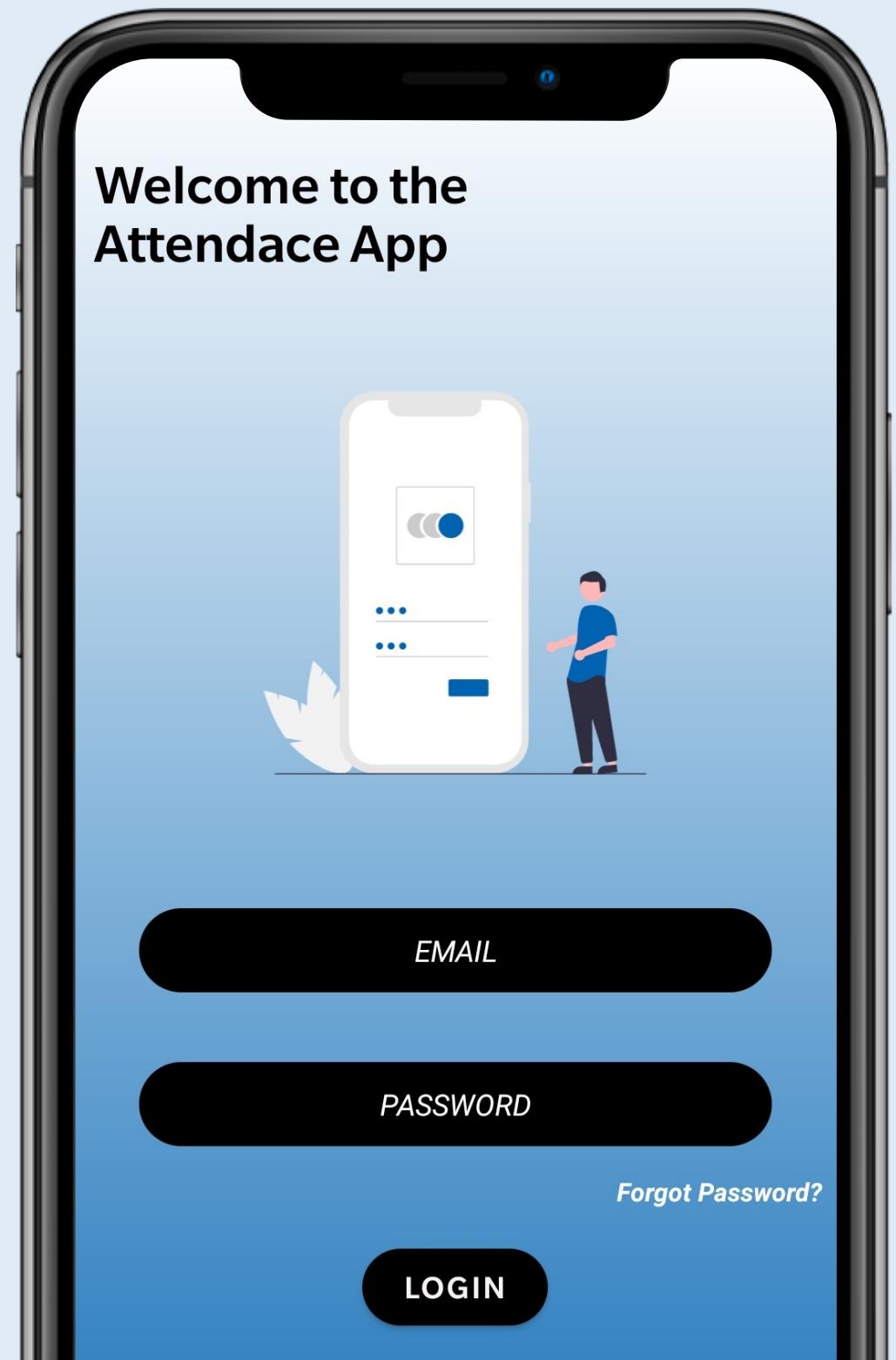
# Login Credentials



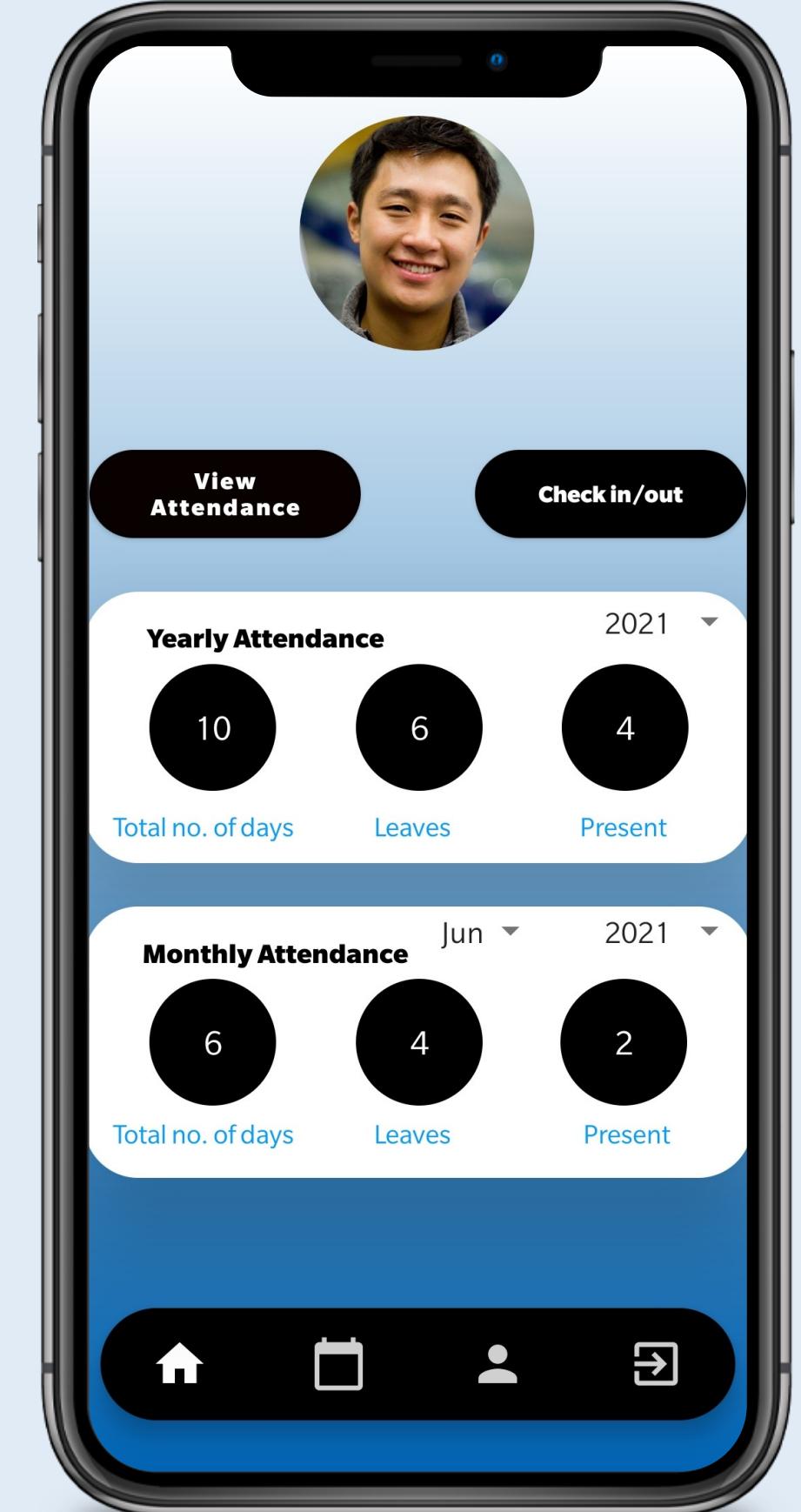
## EMPLOYEE AND EMPLOYER

Users will receive login credentials on their email ids along with app download link

# EMPLOYEE MODULE



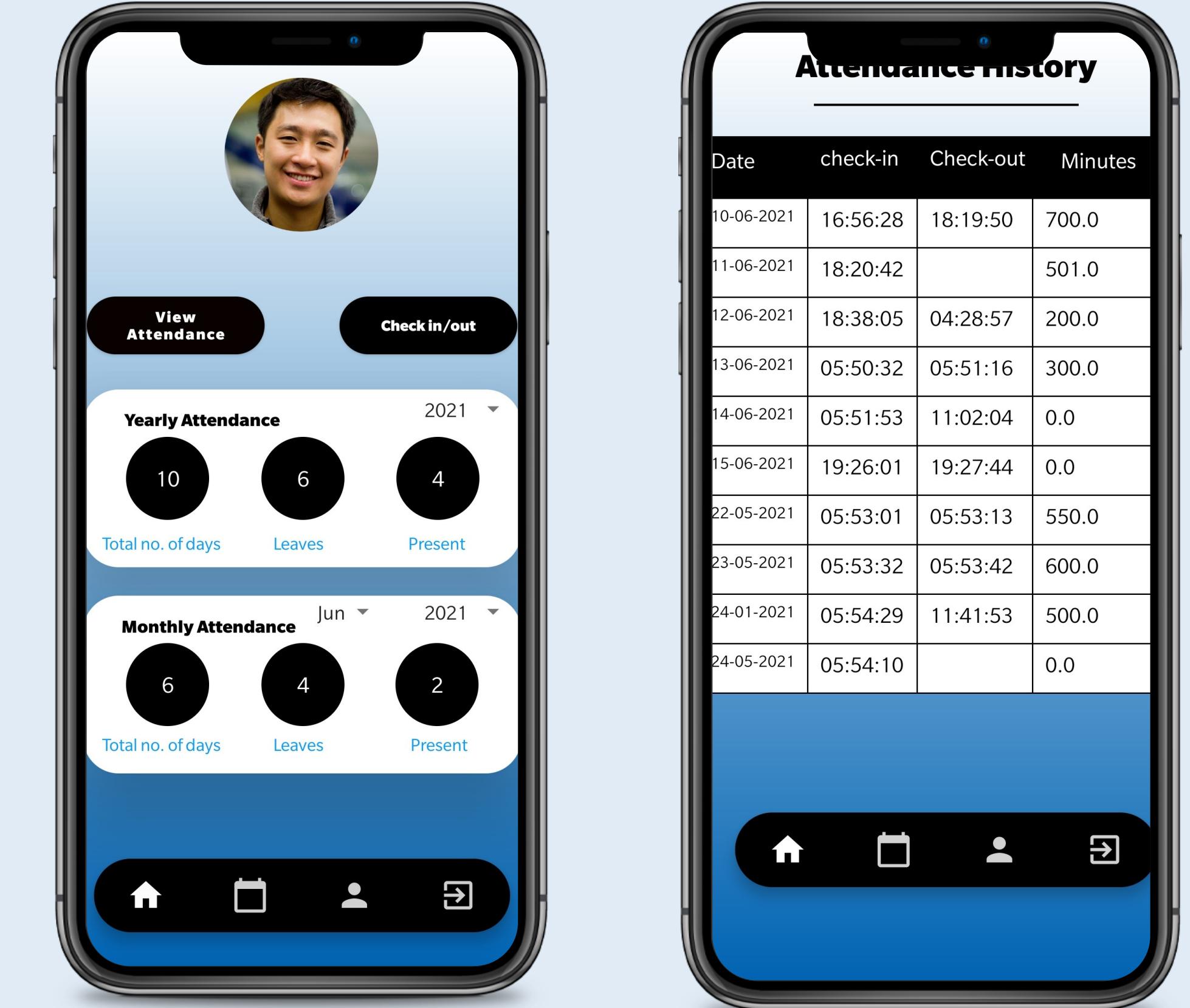
# Employee Features



- Marking Attendance by 2 click mechanism
- Check in and Check out multiple times in the same day
- Have a quick look at their monthly or yearly attendance
- Edit their profile
- View the official Holiday List and Calendar

Employee can go to check in/out page to mark attendance along with the current location. They can check their monthly and yearly attendance and also view holiday list in app itself. They can also customize the profile pic and change their current phone number if required.

# View Attendance



The image displays two side-by-side mobile phone screens, each showing a different view of an attendance management application.

**Left Phone Screen:** This screen shows a user profile picture of a smiling man. Below the profile are two buttons: "View Attendance" and "Check in/out". Underneath these buttons are two sections: "Yearly Attendance" and "Monthly Attendance".

- Yearly Attendance:** Shows statistics for the year 2021. It includes three circular icons with the numbers 10, 6, and 4. Below the icons are labels: "Total no. of days", "Leaves", and "Present".
- Monthly Attendance:** Shows statistics for June 2021. It includes three circular icons with the numbers 6, 4, and 2. Below the icons are labels: "Total no. of days", "Leaves", and "Present".

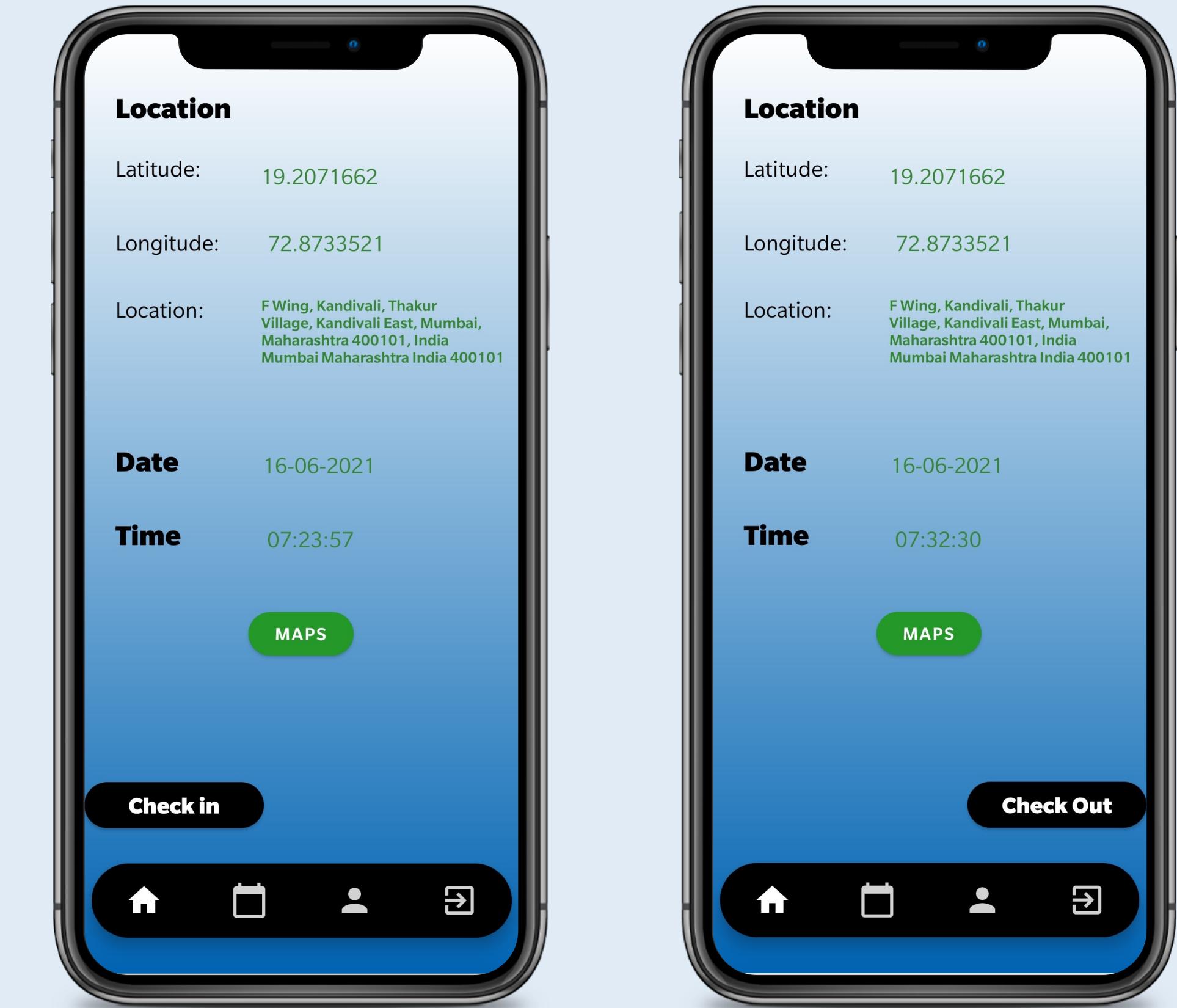
**Bottom Navigation Bar:** A black bar with four white icons: a house (Home), a calendar (Check-in/Out), a person (Profile), and a square with an arrow (Logout).

**Right Phone Screen:** This screen is titled "Attendance History". It displays a table of check-in and check-out records with the following columns: Date, check-in, Check-out, and Minutes.

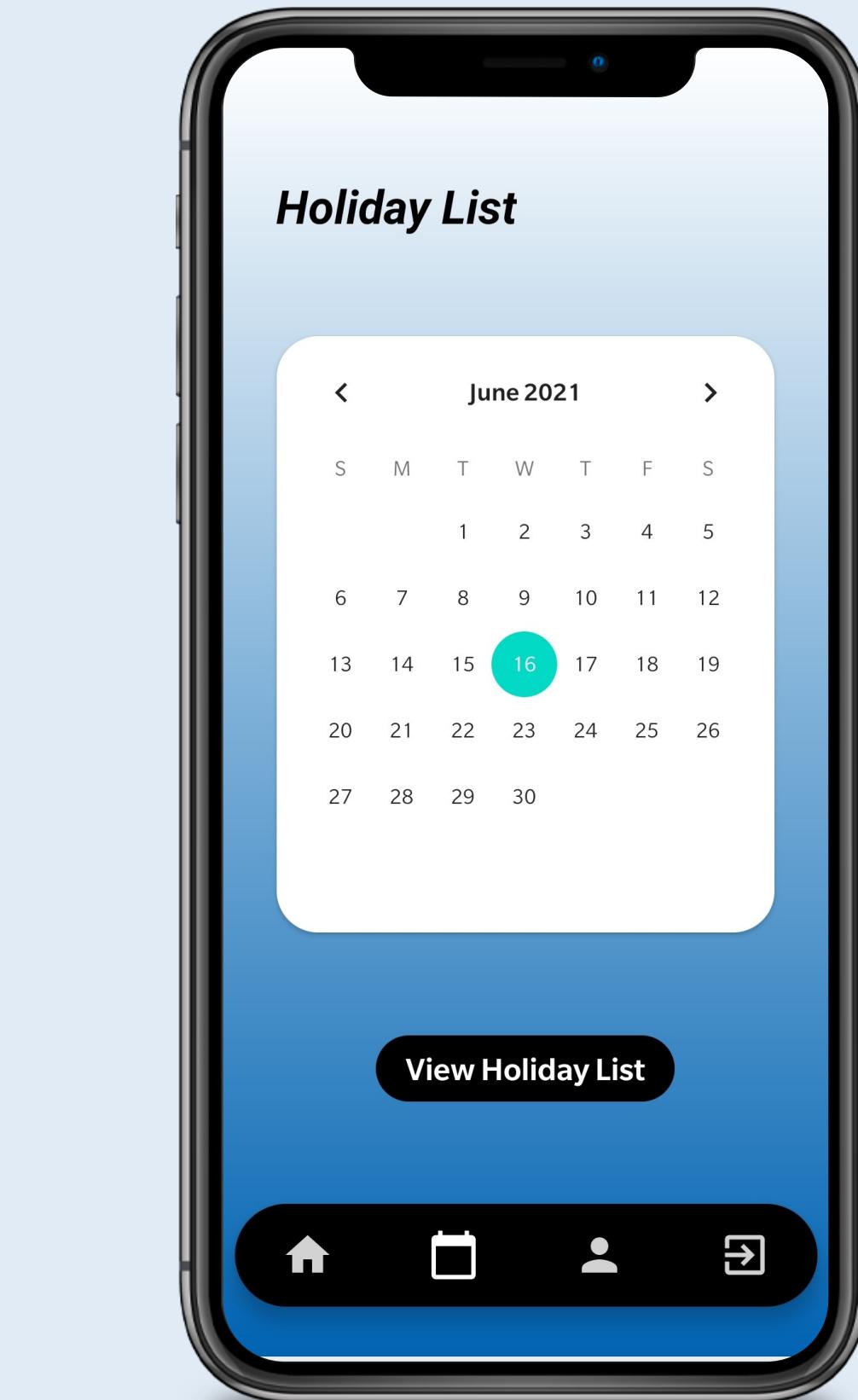
Date	check-in	Check-out	Minutes
10-06-2021	16:56:28	18:19:50	700.0
11-06-2021	18:20:42		501.0
12-06-2021	18:38:05	04:28:57	200.0
13-06-2021	05:50:32	05:51:16	300.0
14-06-2021	05:51:53	11:02:04	0.0
15-06-2021	19:26:01	19:27:44	0.0
22-05-2021	05:53:01	05:53:13	550.0
23-05-2021	05:53:32	05:53:42	600.0
24-01-2021	05:54:29	11:41:53	500.0
24-05-2021	05:54:10		0.0

**Bottom Navigation Bar:** A black bar with four white icons: a house (Home), a calendar (Check-in/Out), a person (Profile), and a square with an arrow (Logout).

# Check-in/out Page



# Employee Calendar



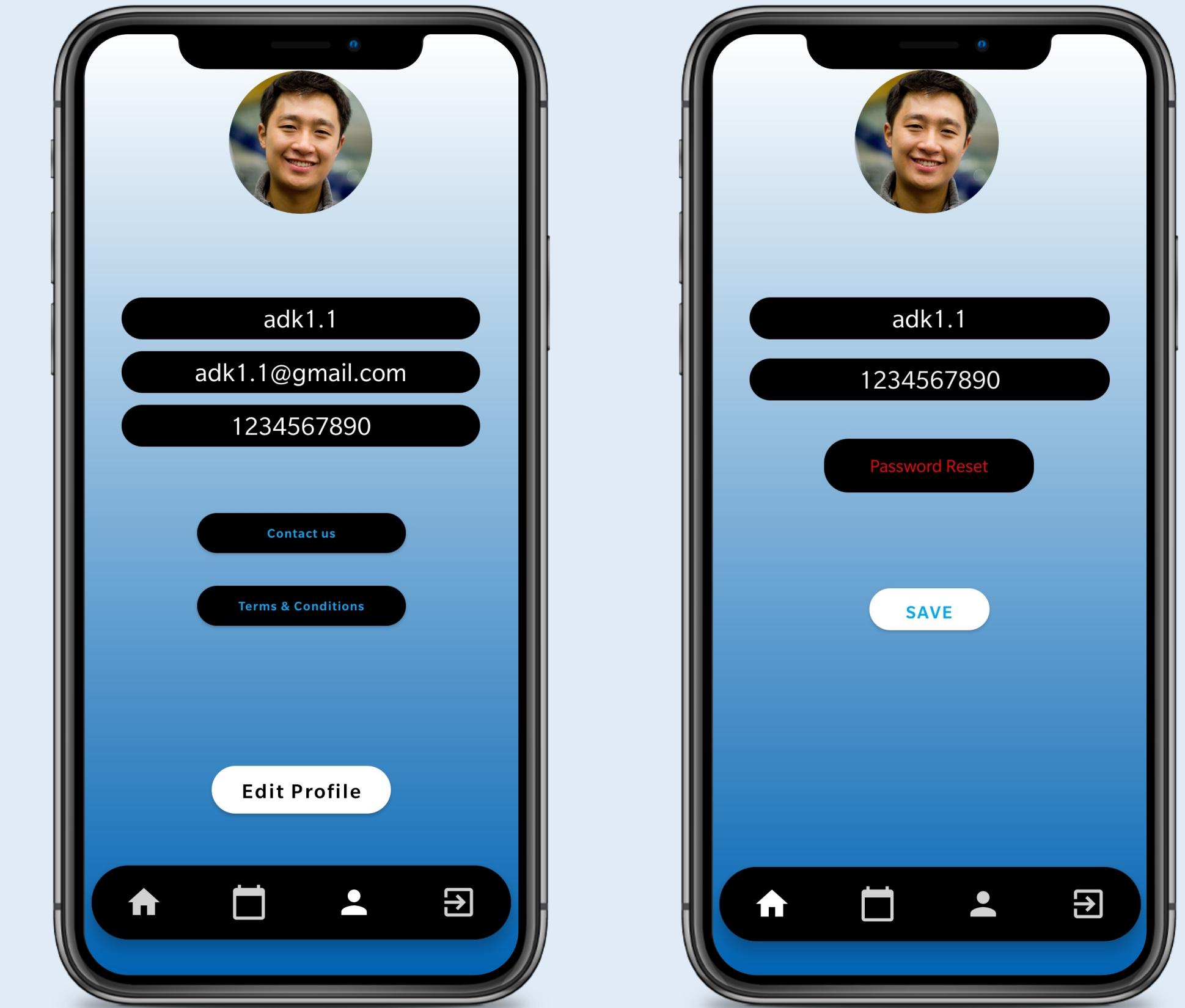
LIST OF CLOSED HOLIDAYS FOR CENTRAL GOVERNMENT OFFICES IN TAMIL NADU FOR THE YEAR 2021.

SL.NO.	HOLIDAYS	DATE	DAY
1*	PONGAL	14.01.2021	THURSDAY
2	REPUBLIC DAY	26.01.2021	TUESDAY
3	GOOD FRIDAY	02.04.2021	FRIDAY
4	MAHAVIR JAYANTI	25.04.2021	SUNDAY
5	ID U'L FITR	14.05.2021	FRIDAY
6	BUDDHA PURNIMA	26.05.2021	WEDNESDAY
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17	CHRISTMAS DAY	25.12.2021	SATURDAY

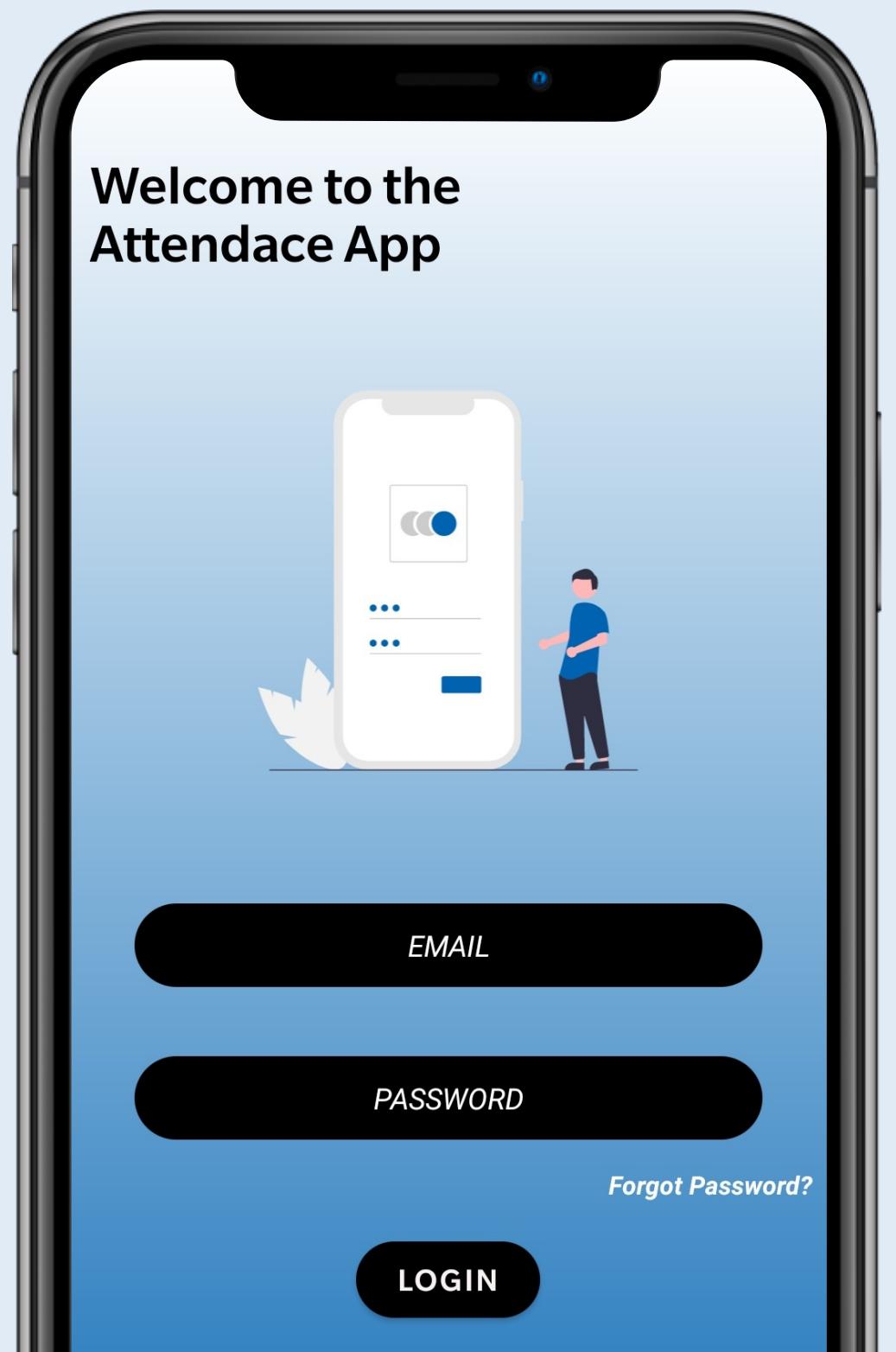
  

List of Restricted Holidays during the year 2021 for Administrative Offices of Central Government located in Tamil Nadu			
Sl.No.	Holiday	Date	Day
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9	Maha Shivratri	11.03.2021	Thursday

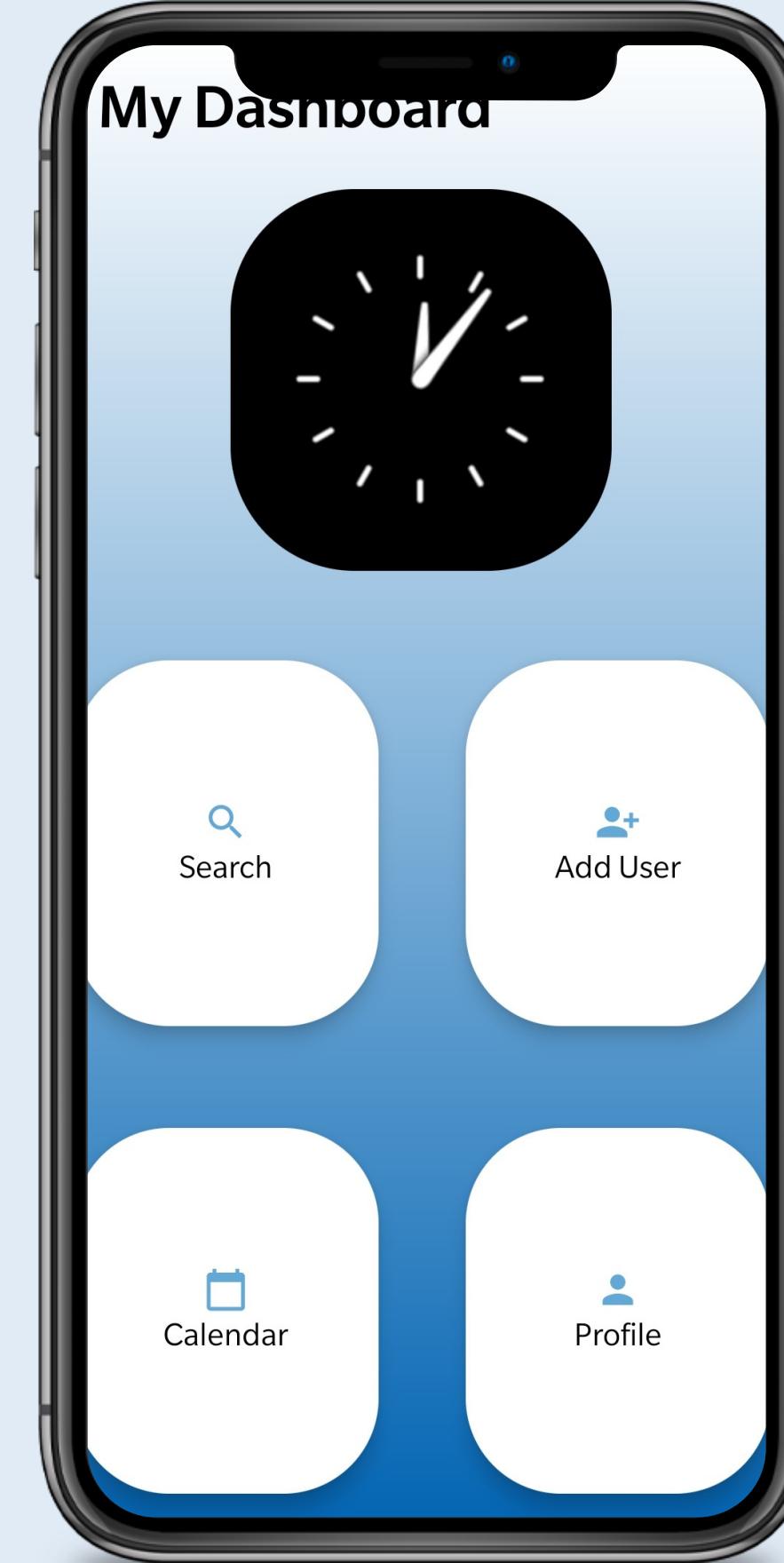
# Employee Profile



# EMPLOYER MODULE



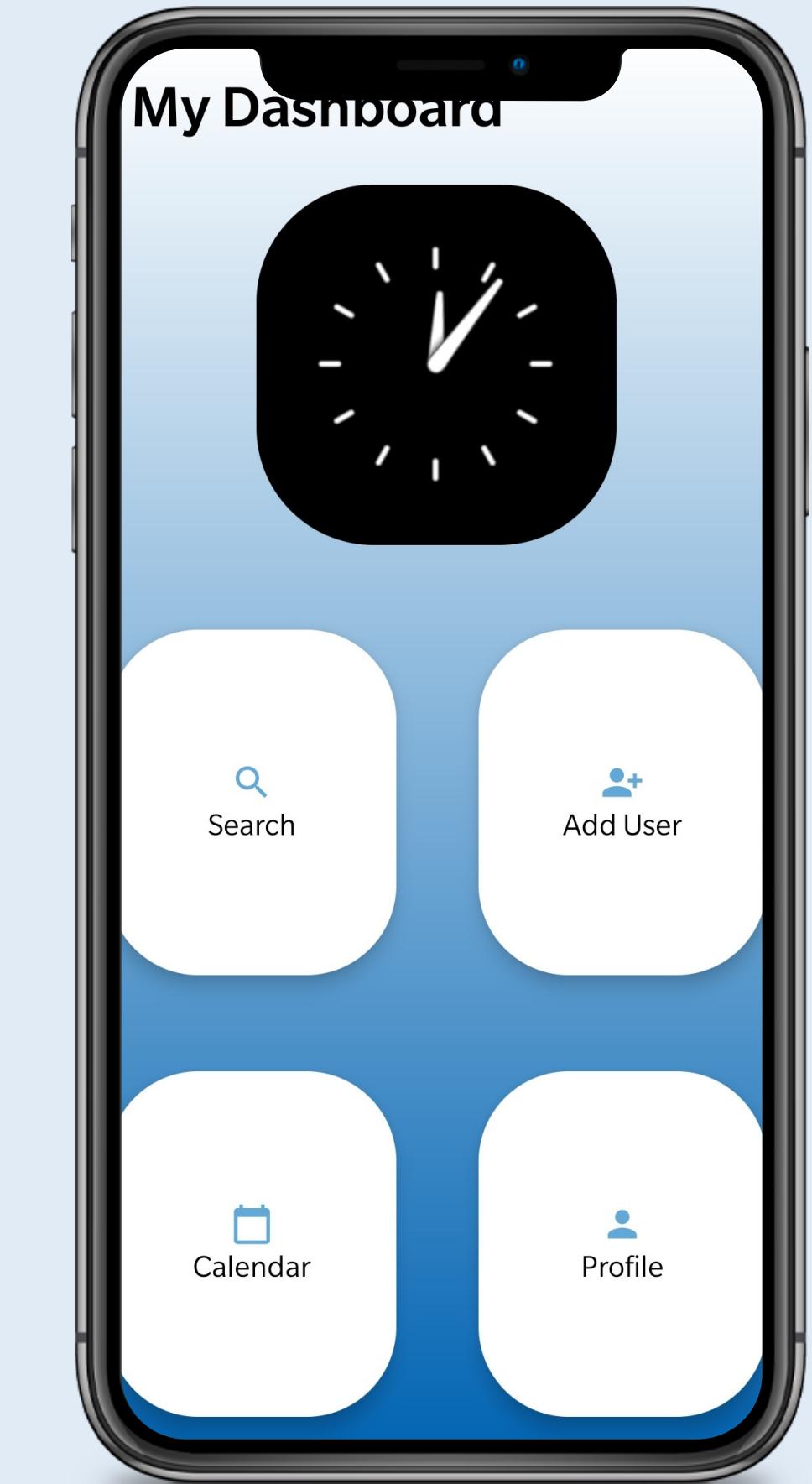
# Employer Features



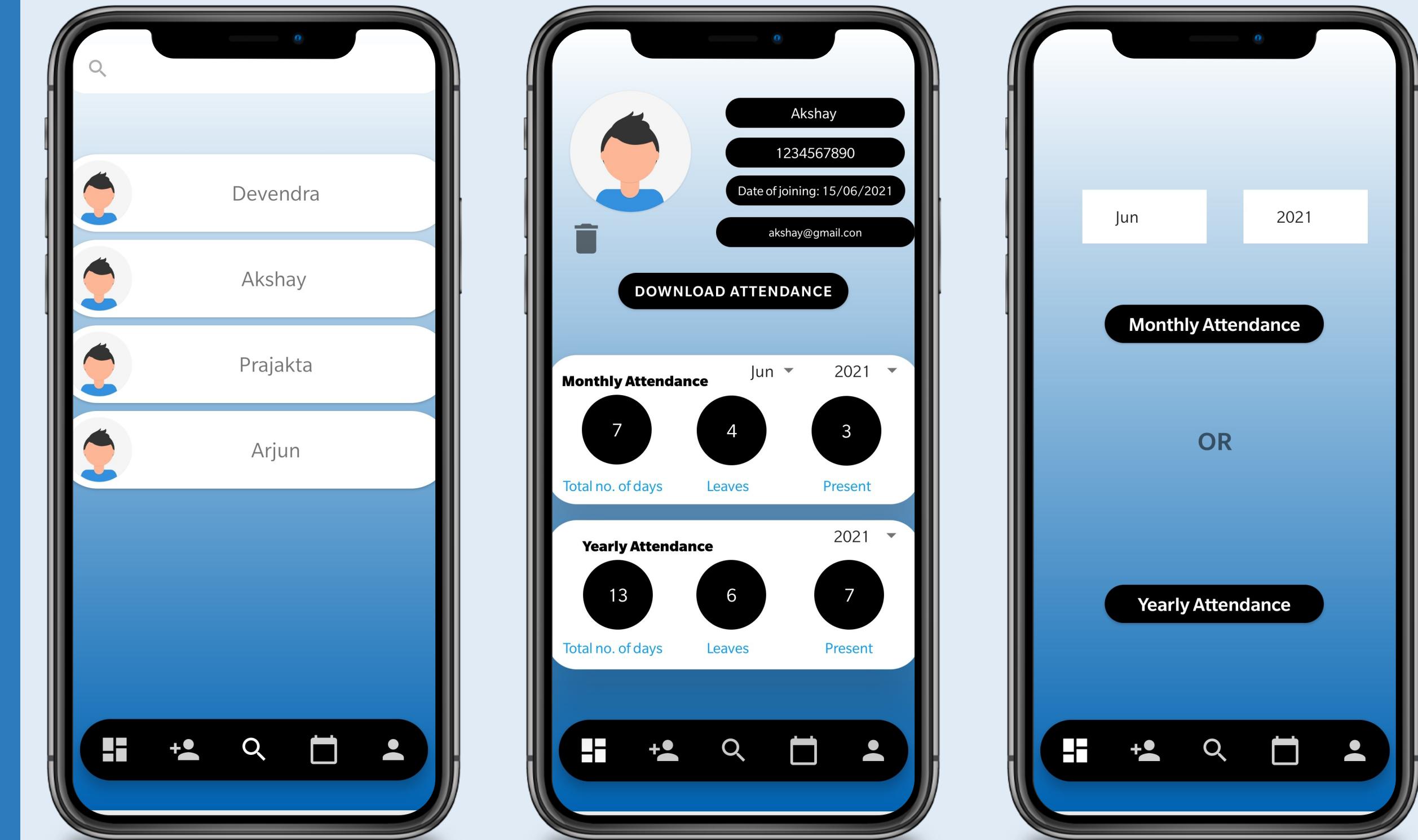
- Can Search and View Employee Details
- Can View and download Employees Attendance records
- Can Create New Employee account and delete existing ones
- Can Upload New Holiday List and View it along with calendar
- Can edit profile

Employer can add employees under his view and track their attendance. Employer has option to download the attendance of each employee under his supervision and has authority to delete employee account.

# Employer Dashboard



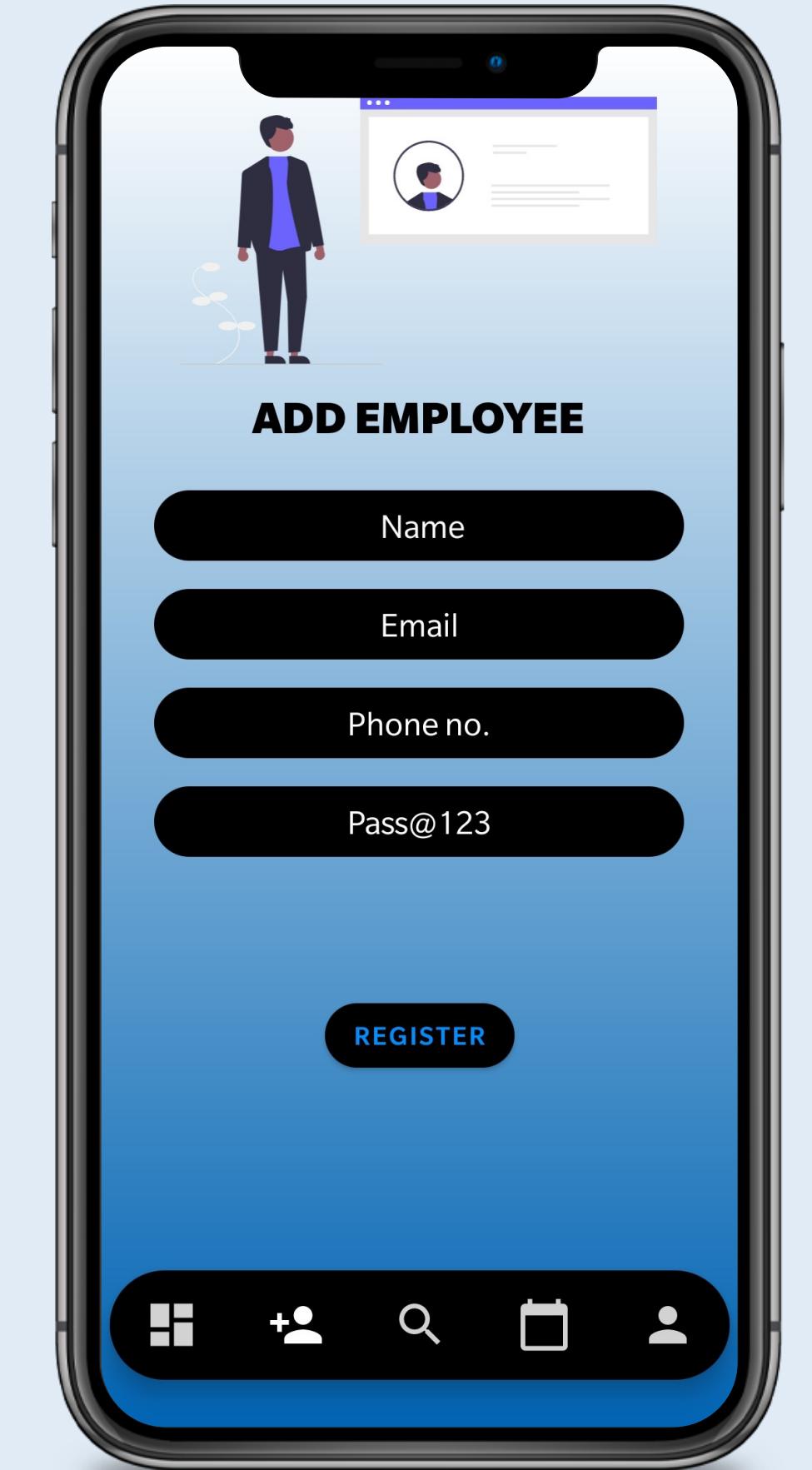
# Employer Search Employee info



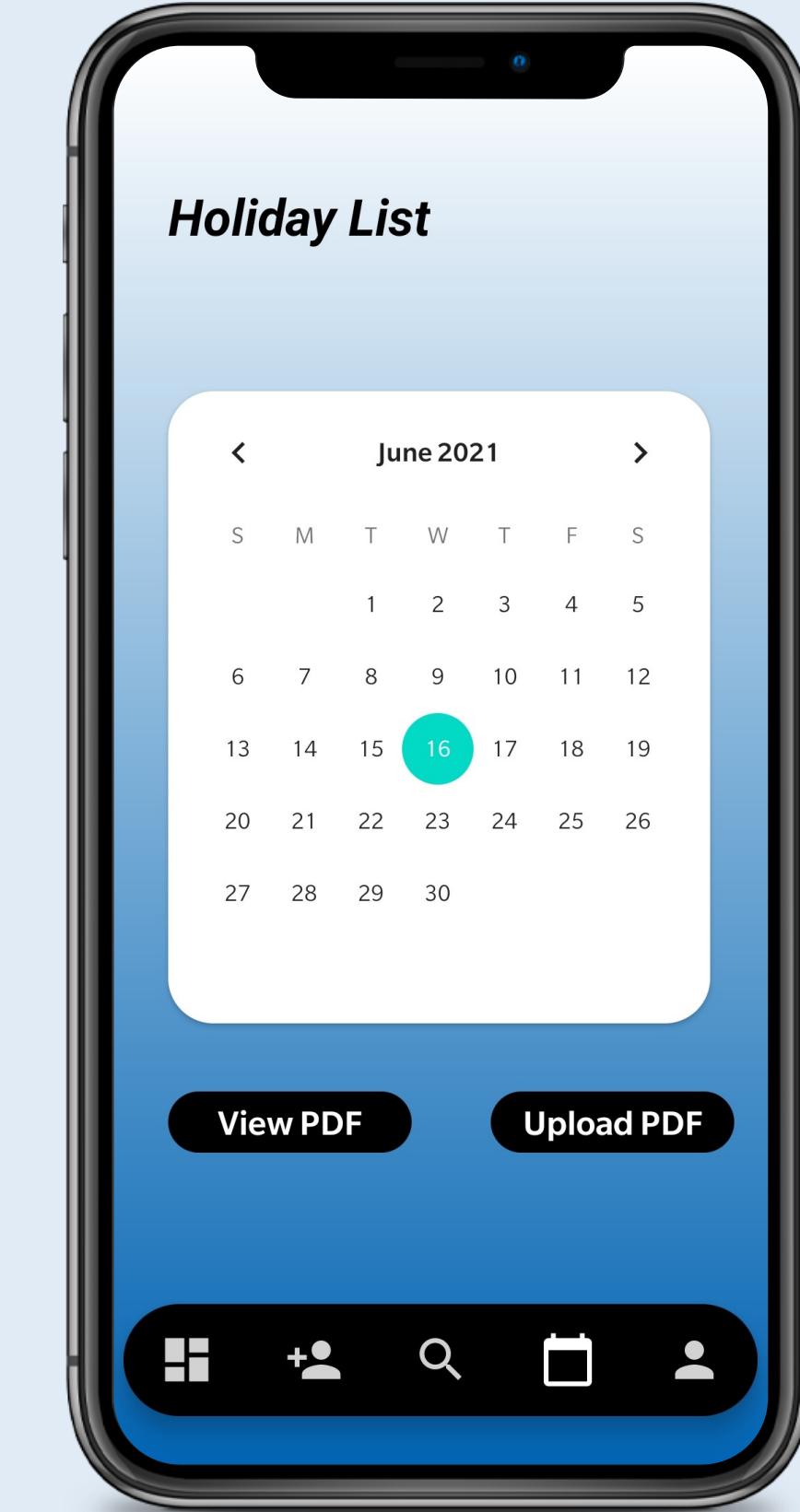
# Employer

## Add

# Employee



# Employer Calendar

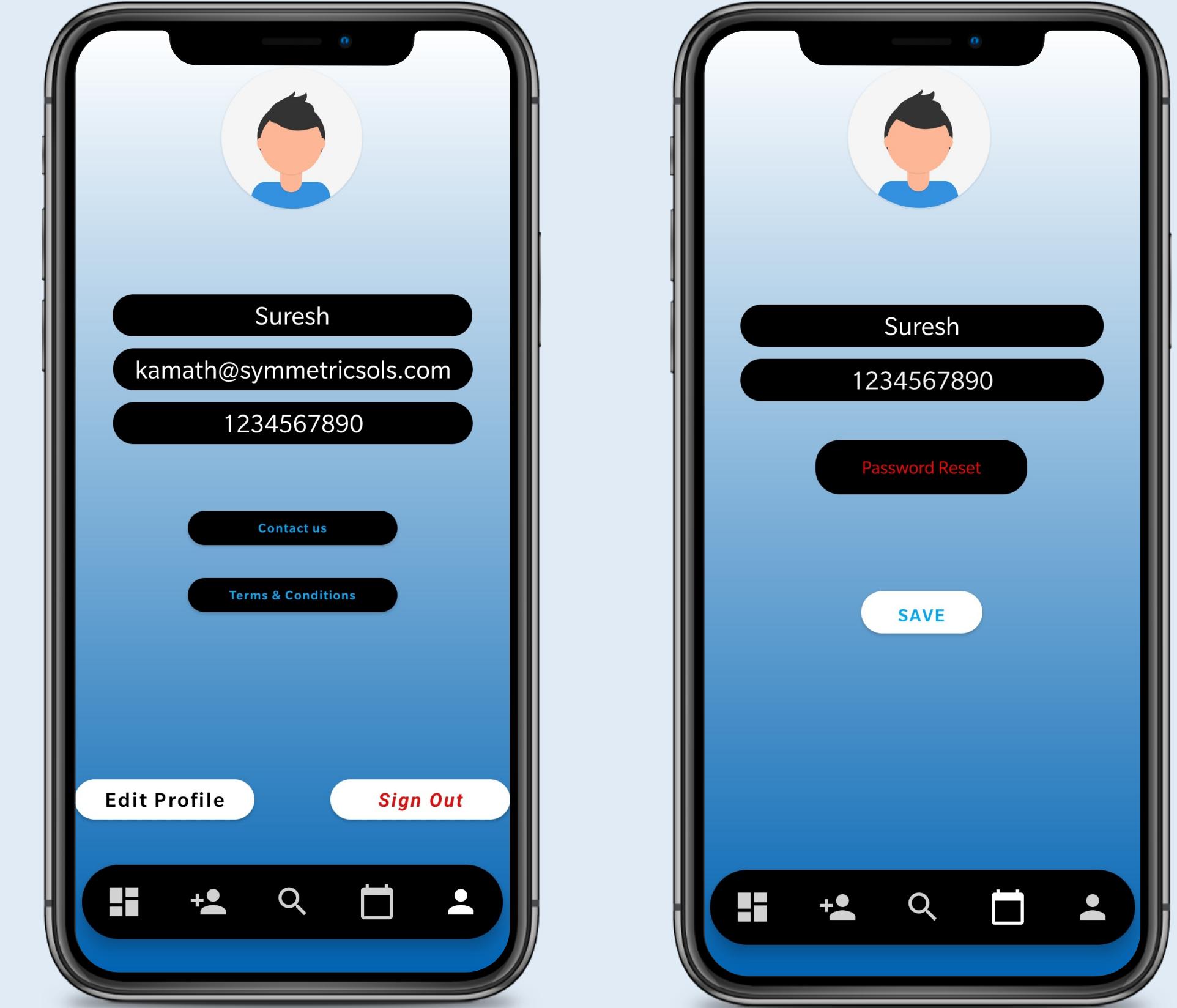


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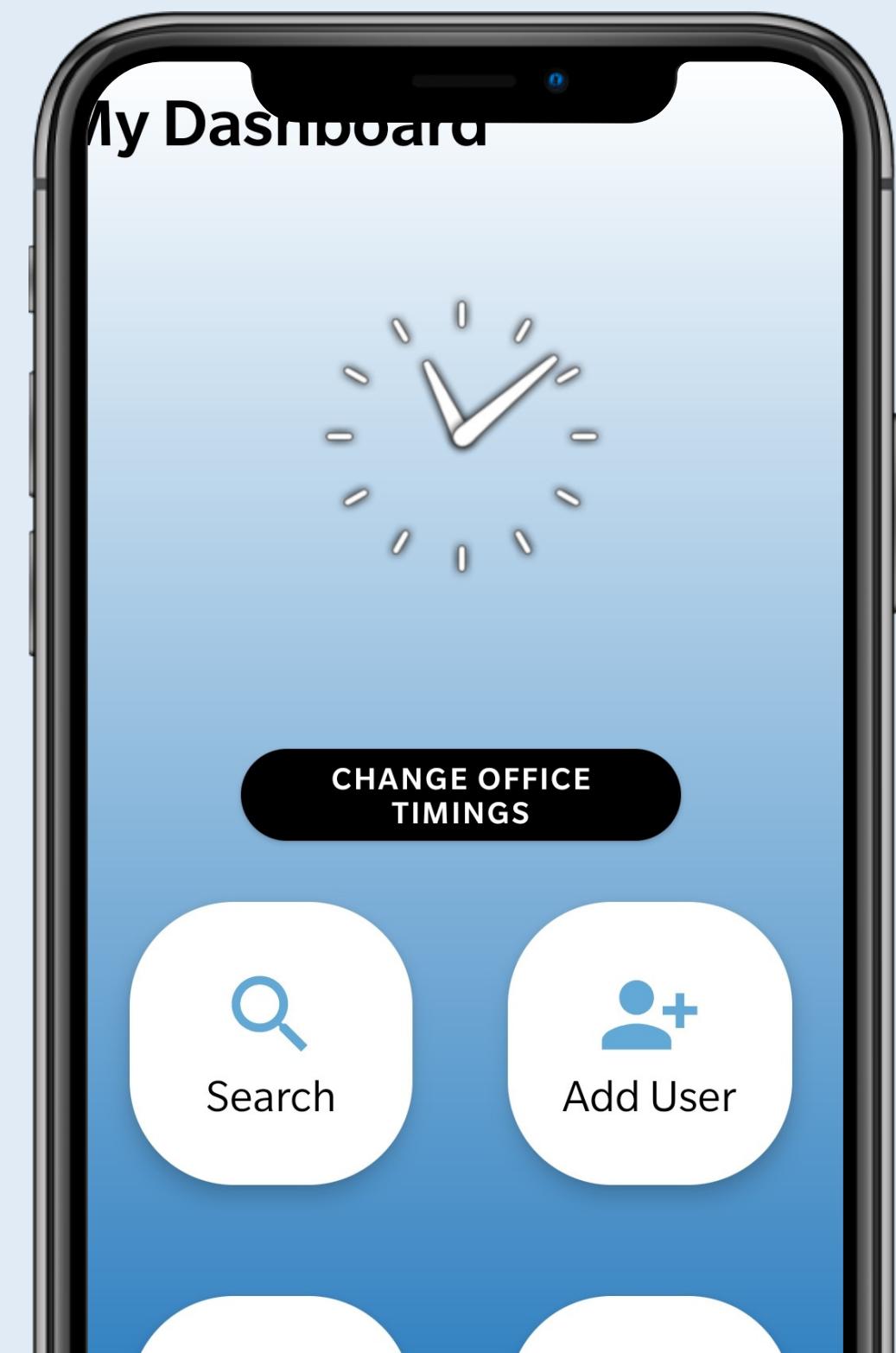
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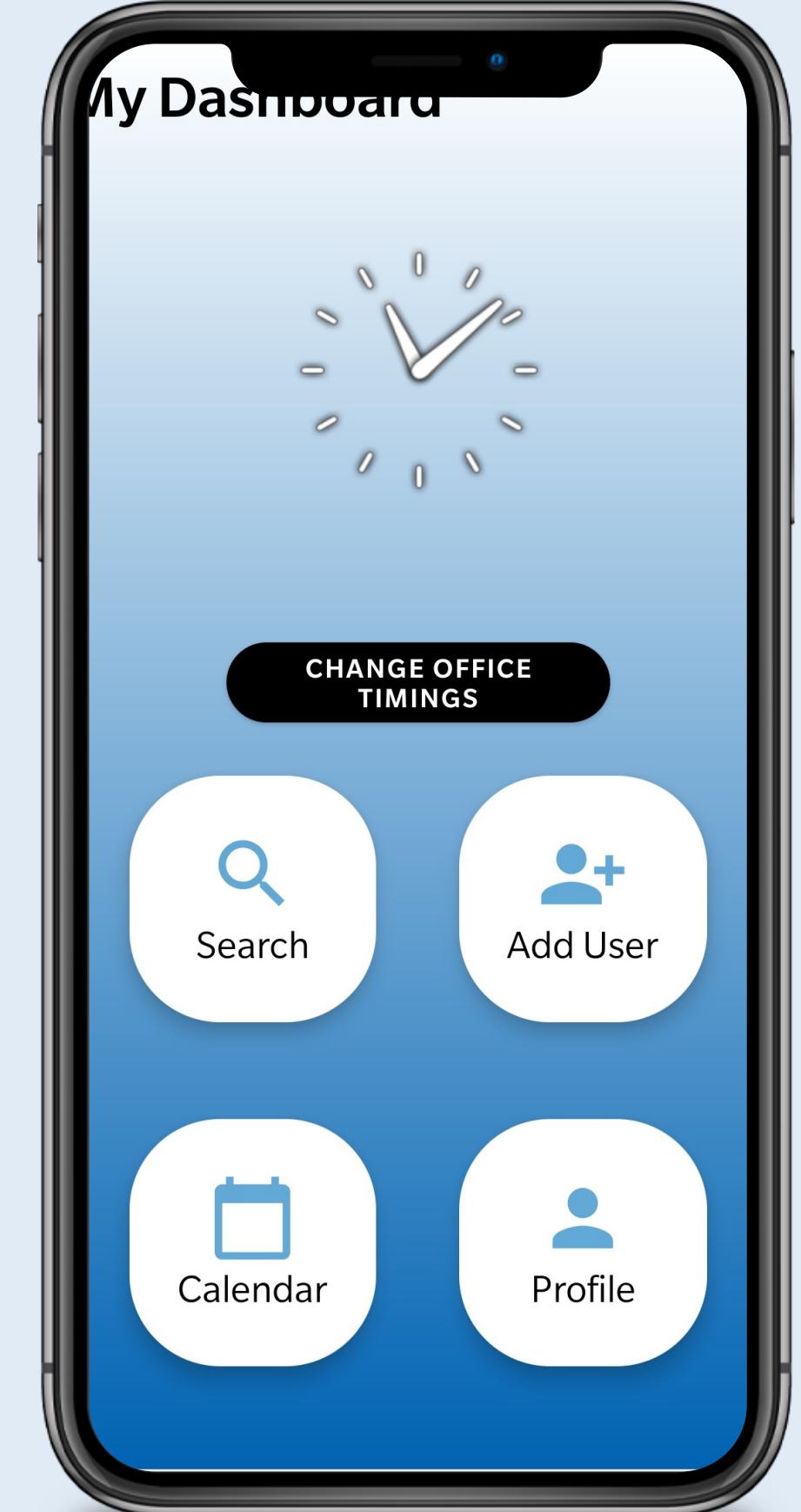
# Employer Profile



## ADMIN MODULE

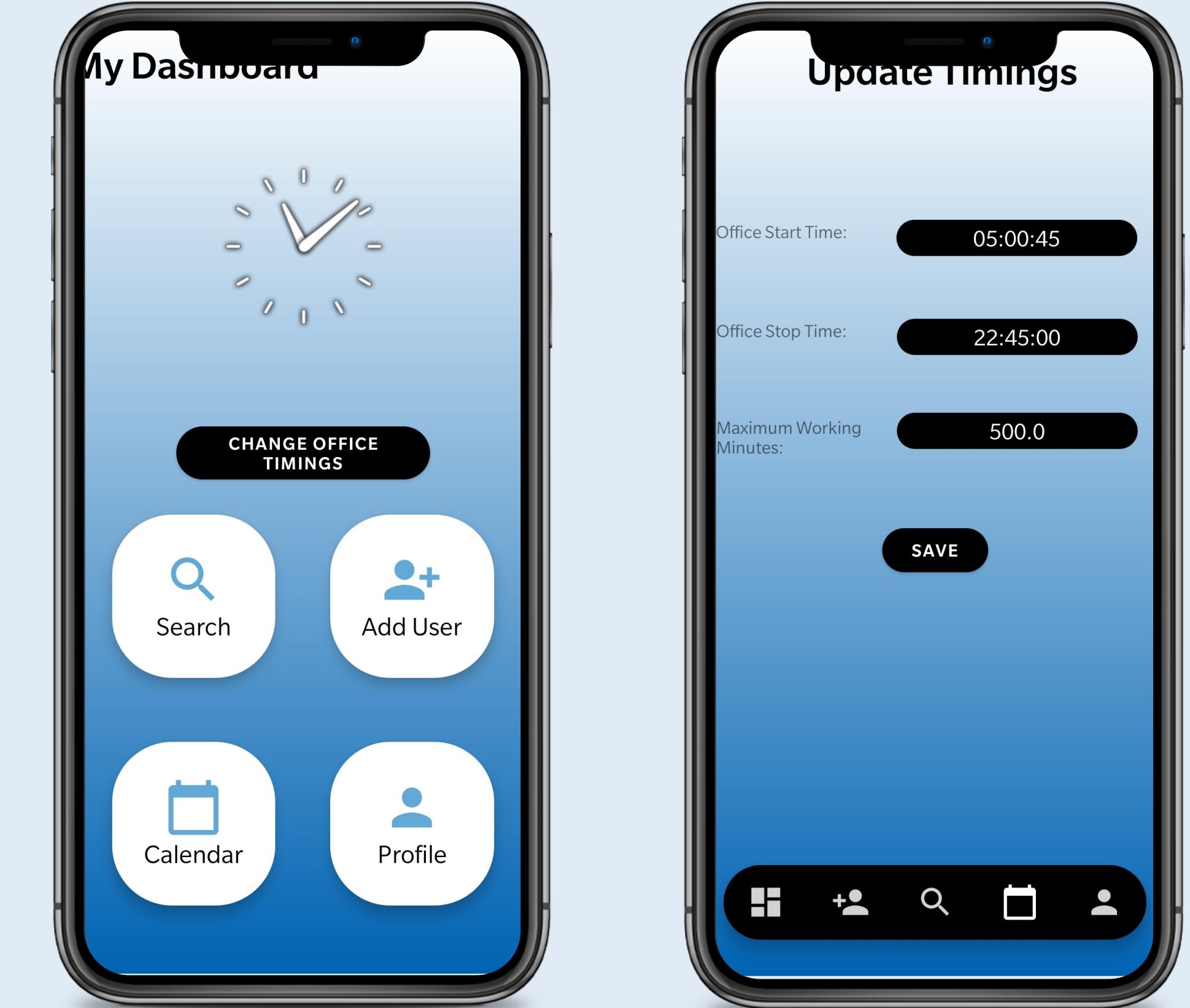


# Admin Features

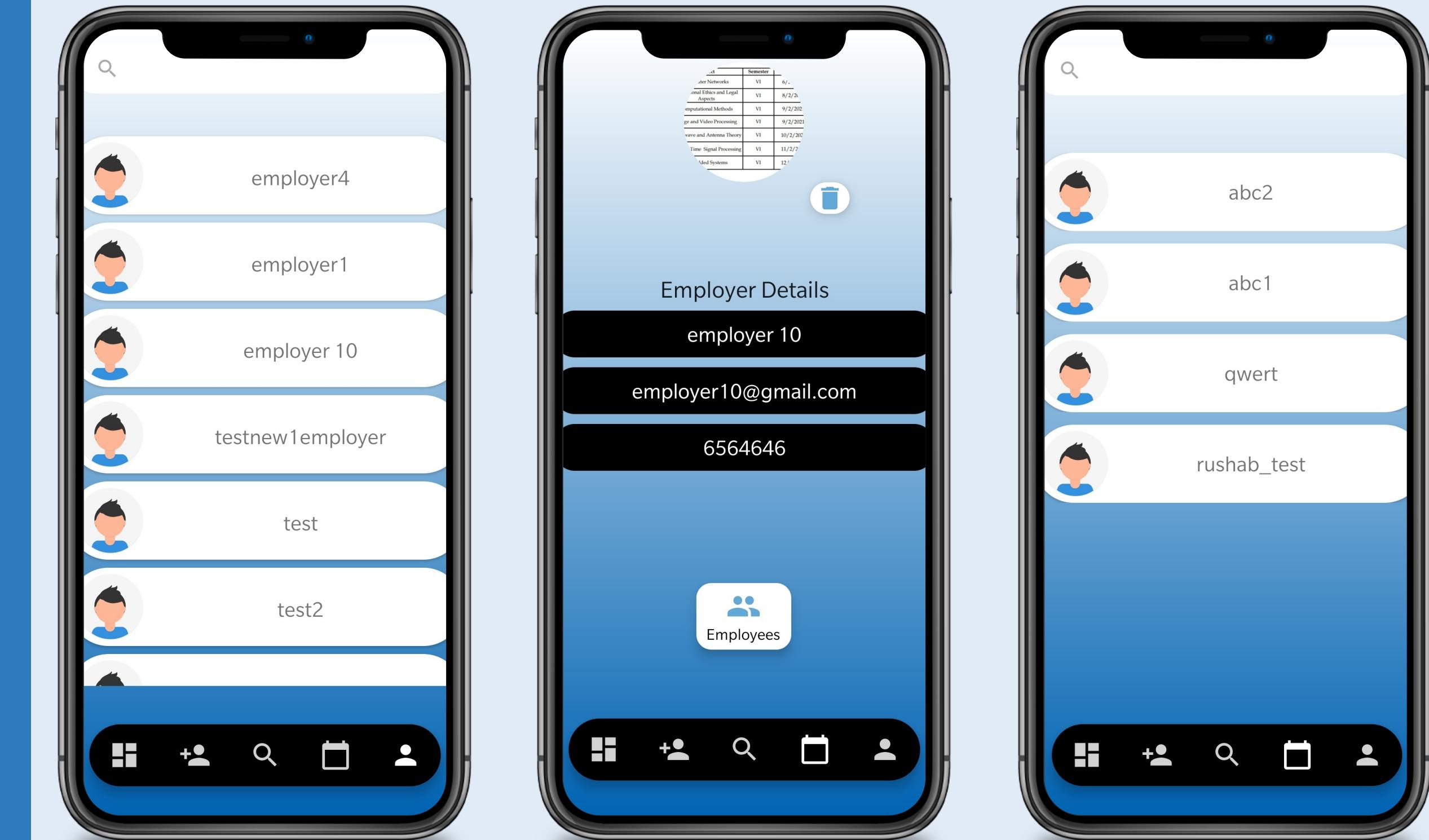


- Can Search and View Employer Details
- Can see the employees under their respective employers
- Can Create New Employer account and delete existing ones
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- Can edit profile

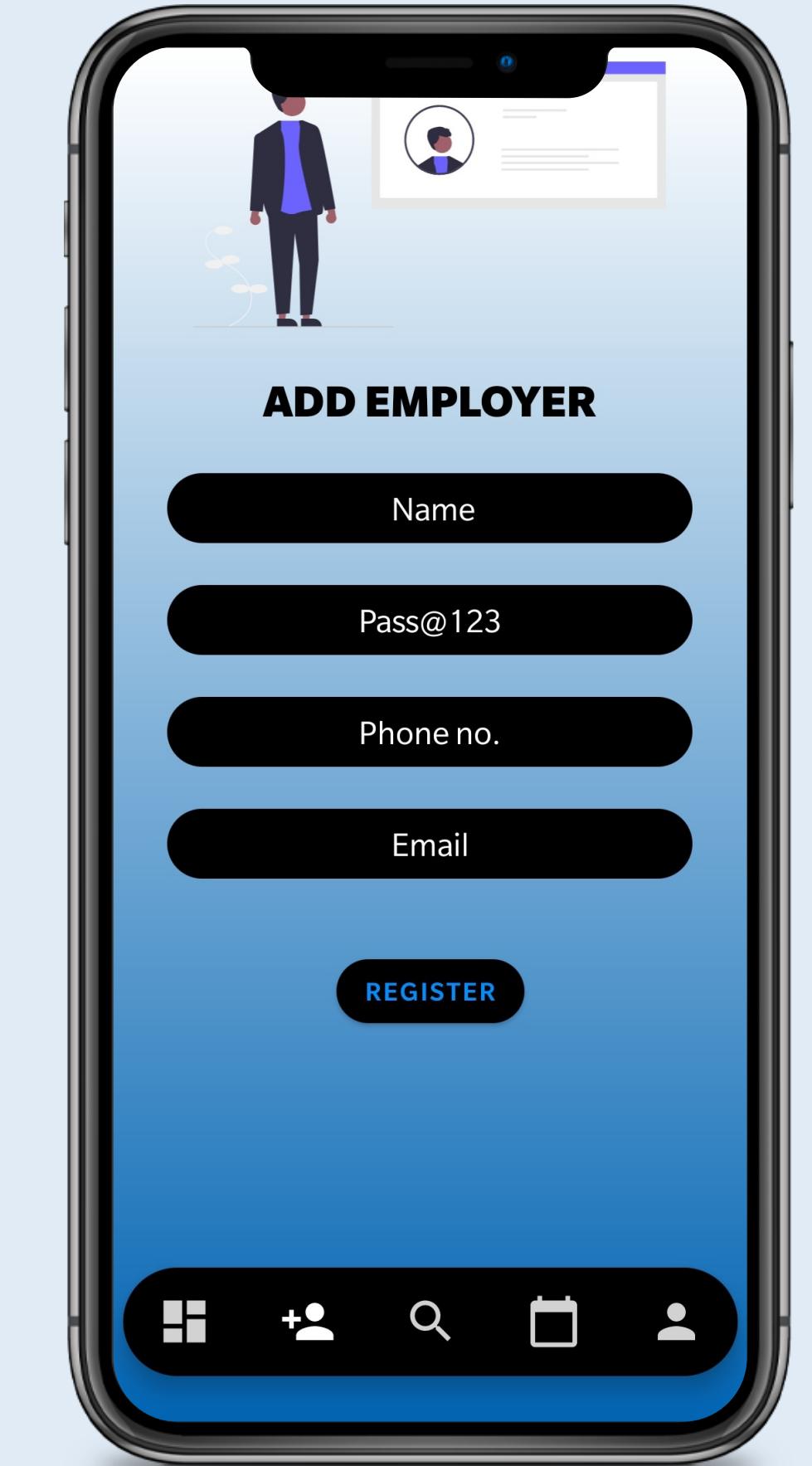
# Admin Dashboard



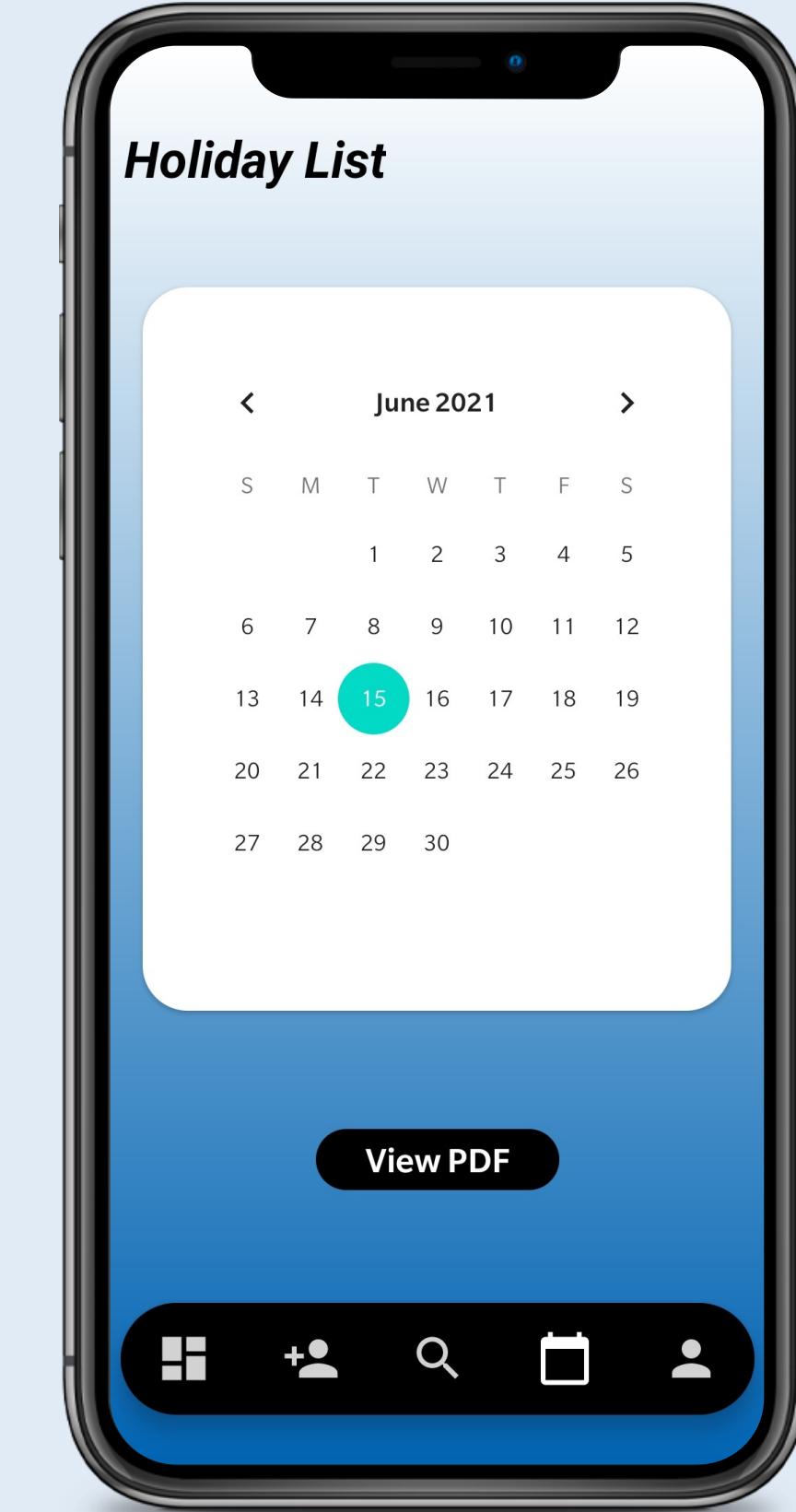
# Admin Info Search



# Admin Add Employer



# Admin Calendar

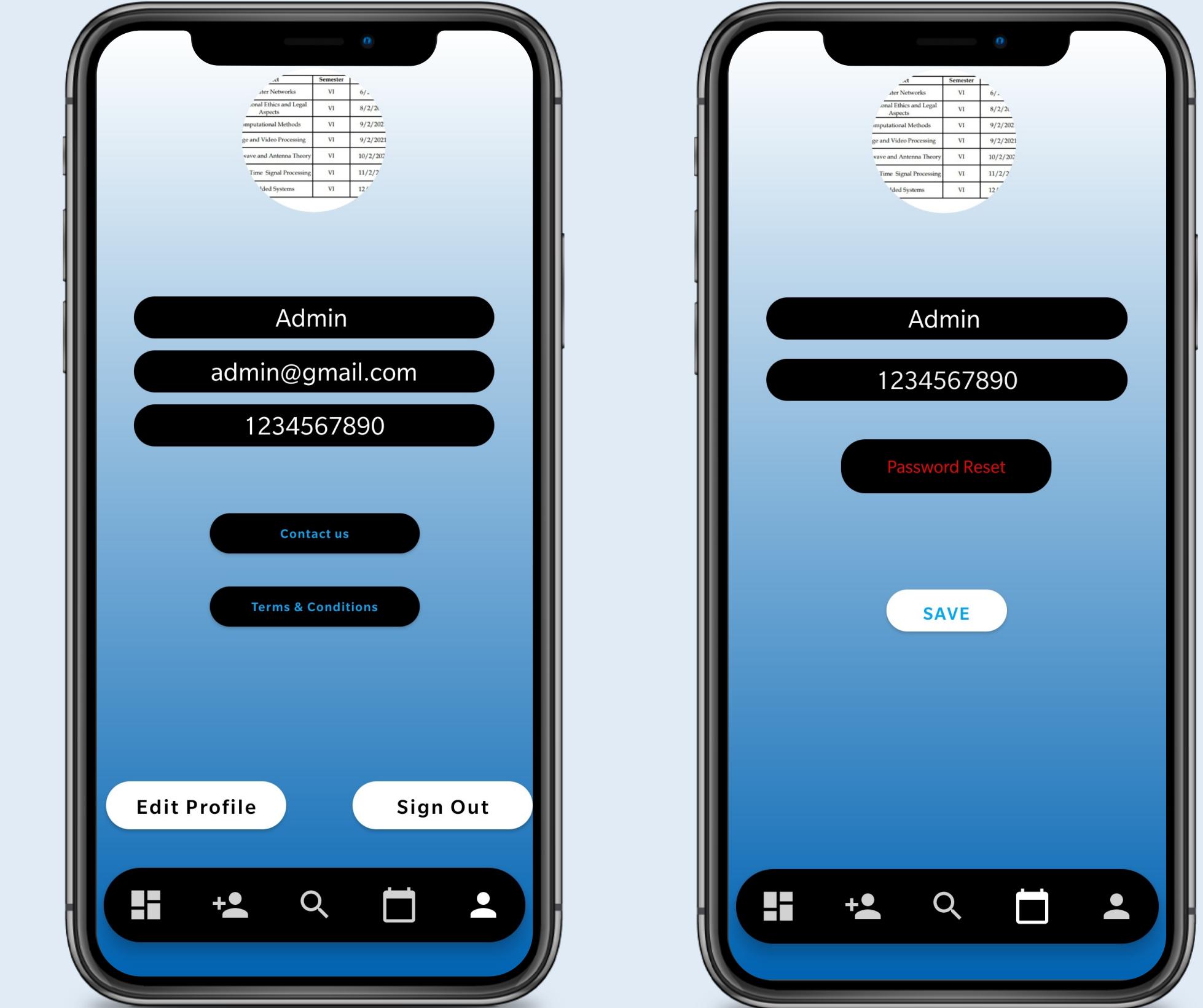


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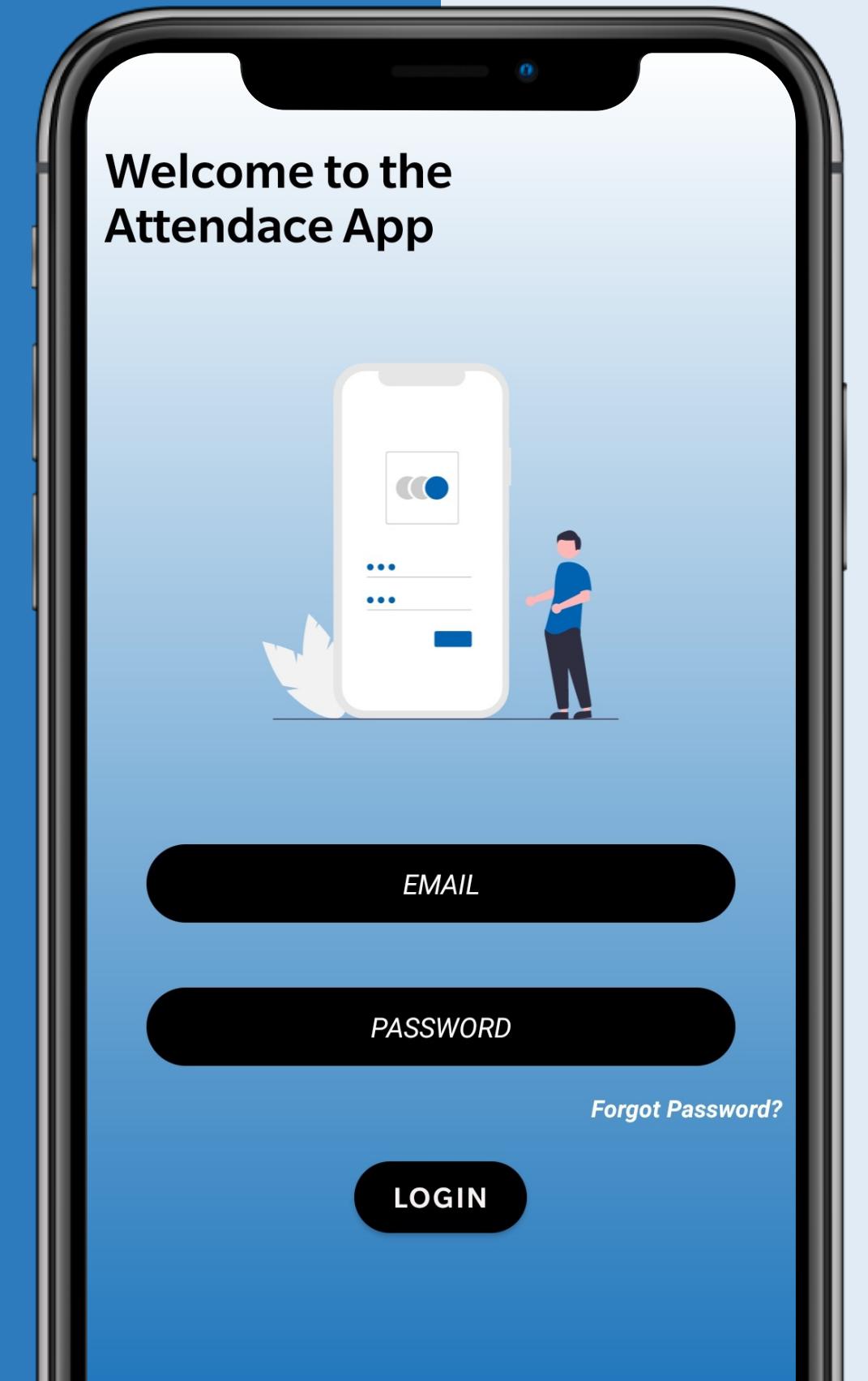
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# Admin Profile

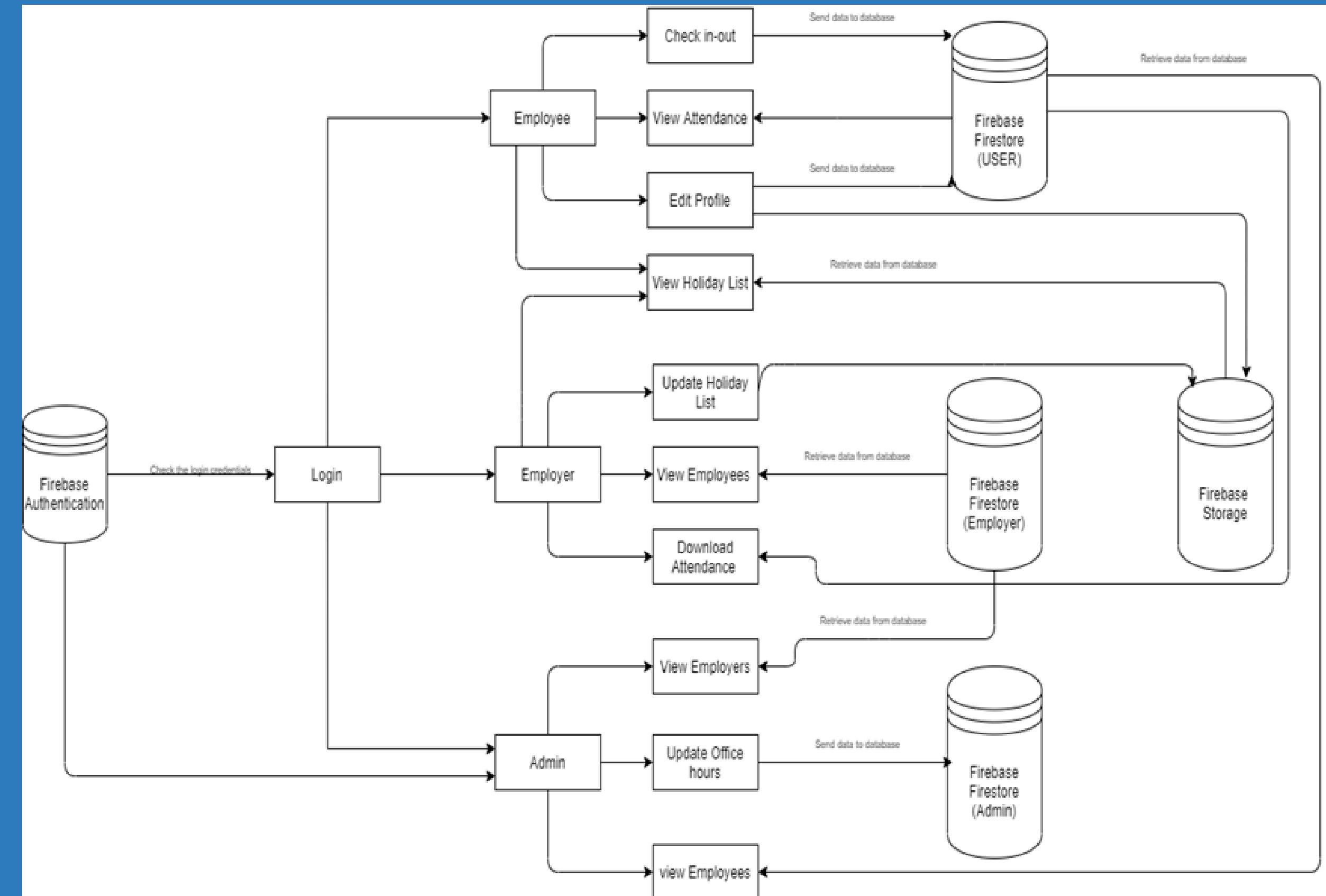


# DATABASE

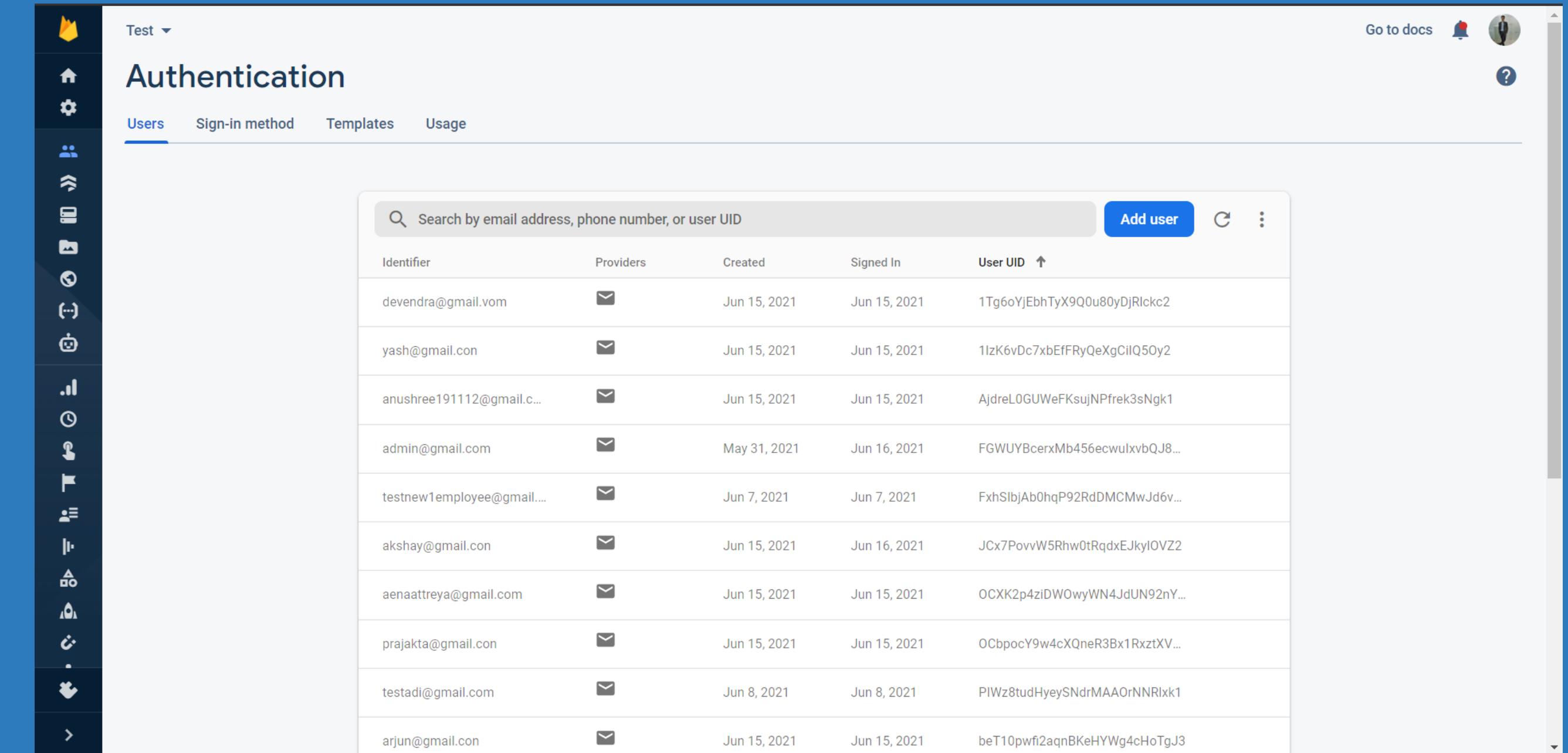
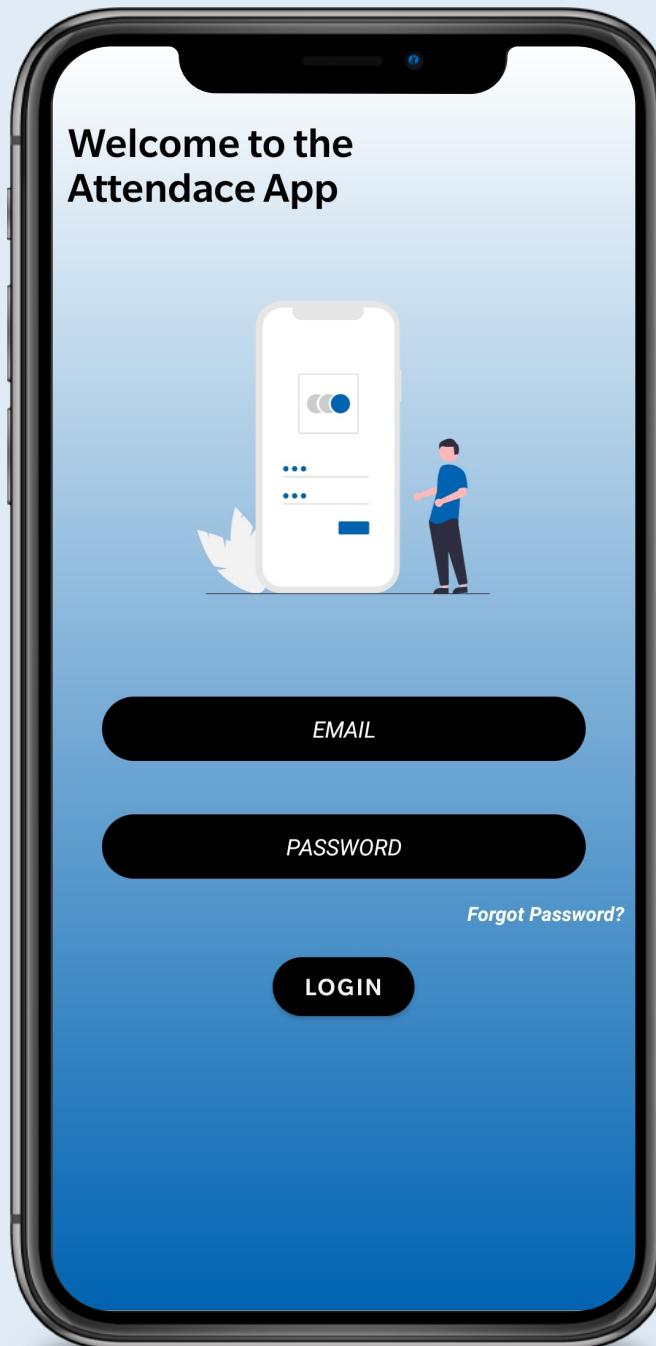
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# Database schema



# Authentication Database



Test ▾

## Authentication

Users Sign-in method Templates Usage

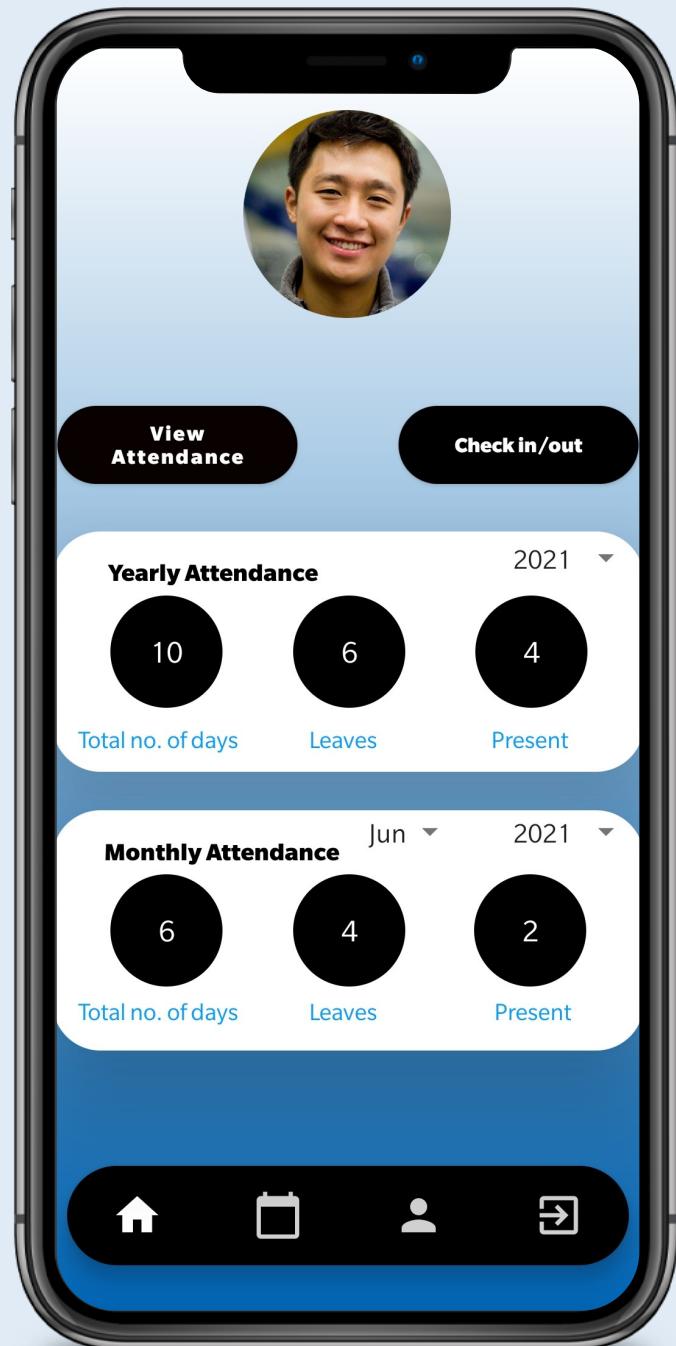
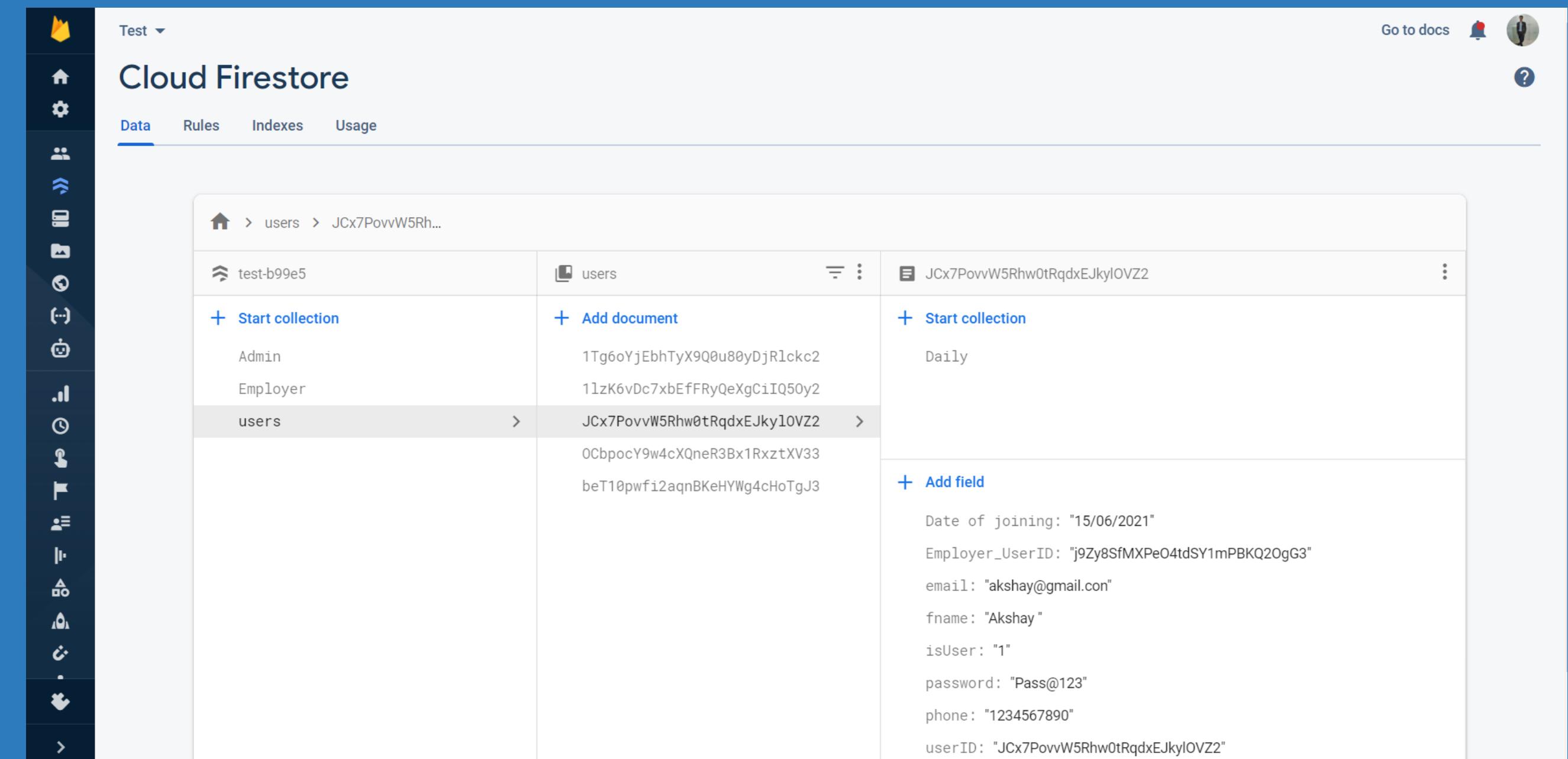
Search by email address, phone number, or user UID

Add user C :

Identifier	Providers	Created	Signed In	User UID ↑
devendra@gmail.vom	✉	Jun 15, 2021	Jun 15, 2021	1Tg6oYjEbhTyX9Q0u80yDjRlckc2
yash@gmail.con	✉	Jun 15, 2021	Jun 15, 2021	1IzK6vDc7xbEfFRyQeXgCilQ50y2
anushree191112@gmail.c...	✉	Jun 15, 2021	Jun 15, 2021	AjdreLOGUWeFKsujNPfrek3sNgk1
admin@gmail.com	✉	May 31, 2021	Jun 16, 2021	FGWUYBcerxMb456ecwulxbQJ8...
testnew1employee@gmail....	✉	Jun 7, 2021	Jun 7, 2021	FxhSlbjAb0hqP92RdDMCMwJd6v...
akshay@gmail.con	✉	Jun 15, 2021	Jun 16, 2021	JCx7PovvW5Rhw0tRqdxEJkyIOVZ2
aenaattreya@gmail.com	✉	Jun 15, 2021	Jun 15, 2021	OCXK2p4ziDW0wyWN4JdUN92nY...
prajakta@gmail.con	✉	Jun 15, 2021	Jun 15, 2021	OCbpocY9w4cXQneR3Bx1RxztXV...
testadi@gmail.com	✉	Jun 8, 2021	Jun 8, 2021	PIWz8tudHyeySNdrMAAOrNNRlxk1
arjun@gmail.con	✉	Jun 15, 2021	Jun 15, 2021	beT10pwfi2aqnBKeHYWg4cHoTgJ3

The screenshot shows the Firebase Authentication console under the "Test" project. It displays a list of users with their email addresses, provider type (email), creation date, sign-in date, and unique User UID. The "Users" tab is selected, and the "Add user" button is visible at the top right of the search bar. The interface includes a sidebar with various icons for managing authentication methods like Google, Facebook, and Twitter.

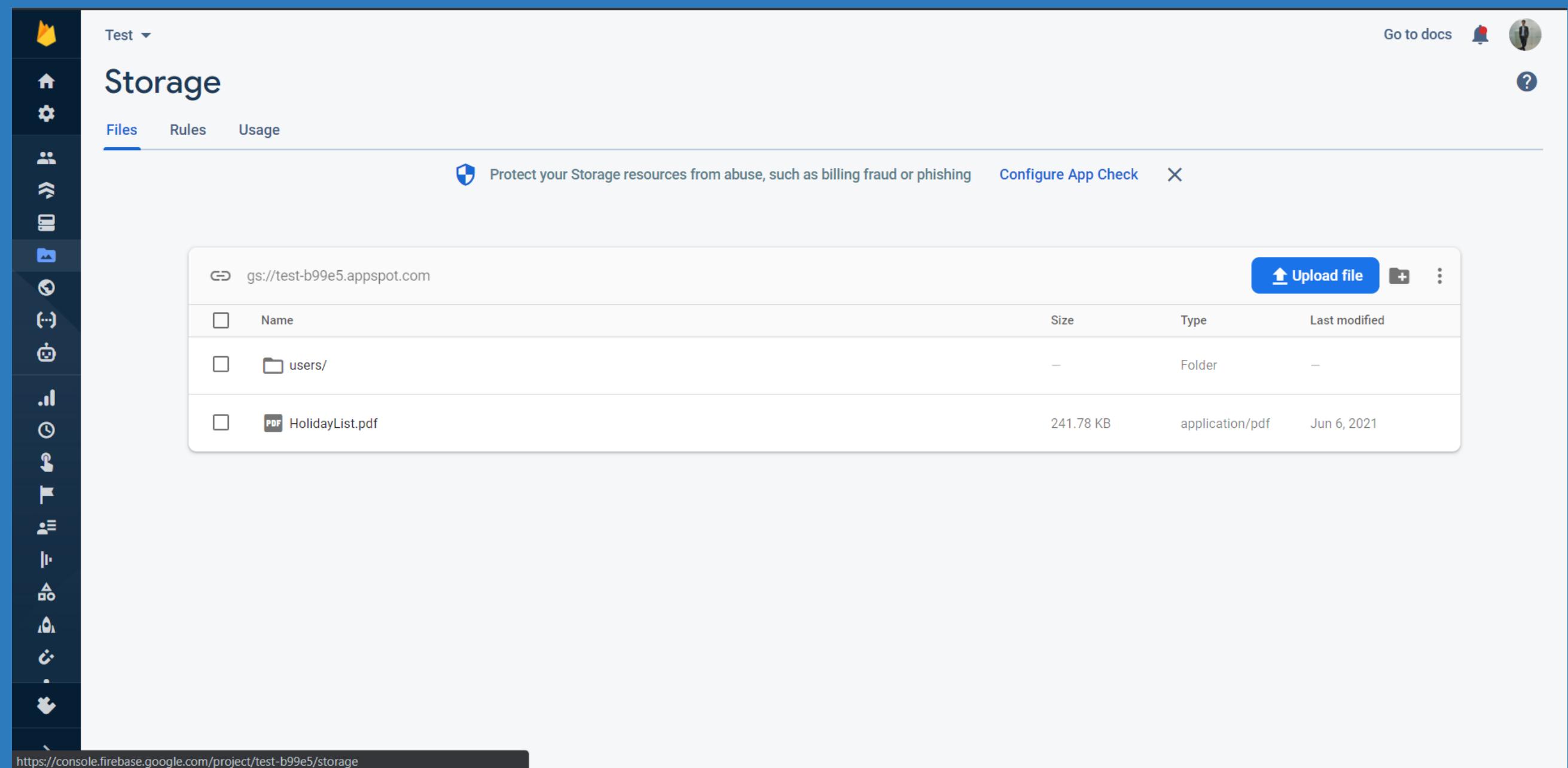
# Firestore Database

The Cloud Firestore interface shows the 'users' collection under the document 'JCx7PovvW5Rhw0tRqdxEJky10VZ2'. The document contains the following fields:

- Date of joining: "15/06/2021"
- Employer\_UserID: "j9Zy8SfMXPe04tdSY1mPBKQ20gG3"
- email: "akshay@gmail.com"
- fname: "Akshay"
- isUser: "1"
- password: "Pass@123"
- phone: "1234567890"
- userID: "JCx7PovvW5Rhw0tRqdxEJky10VZ2"

# Storage Database

Test ▾

## Storage

Files Rules Usage

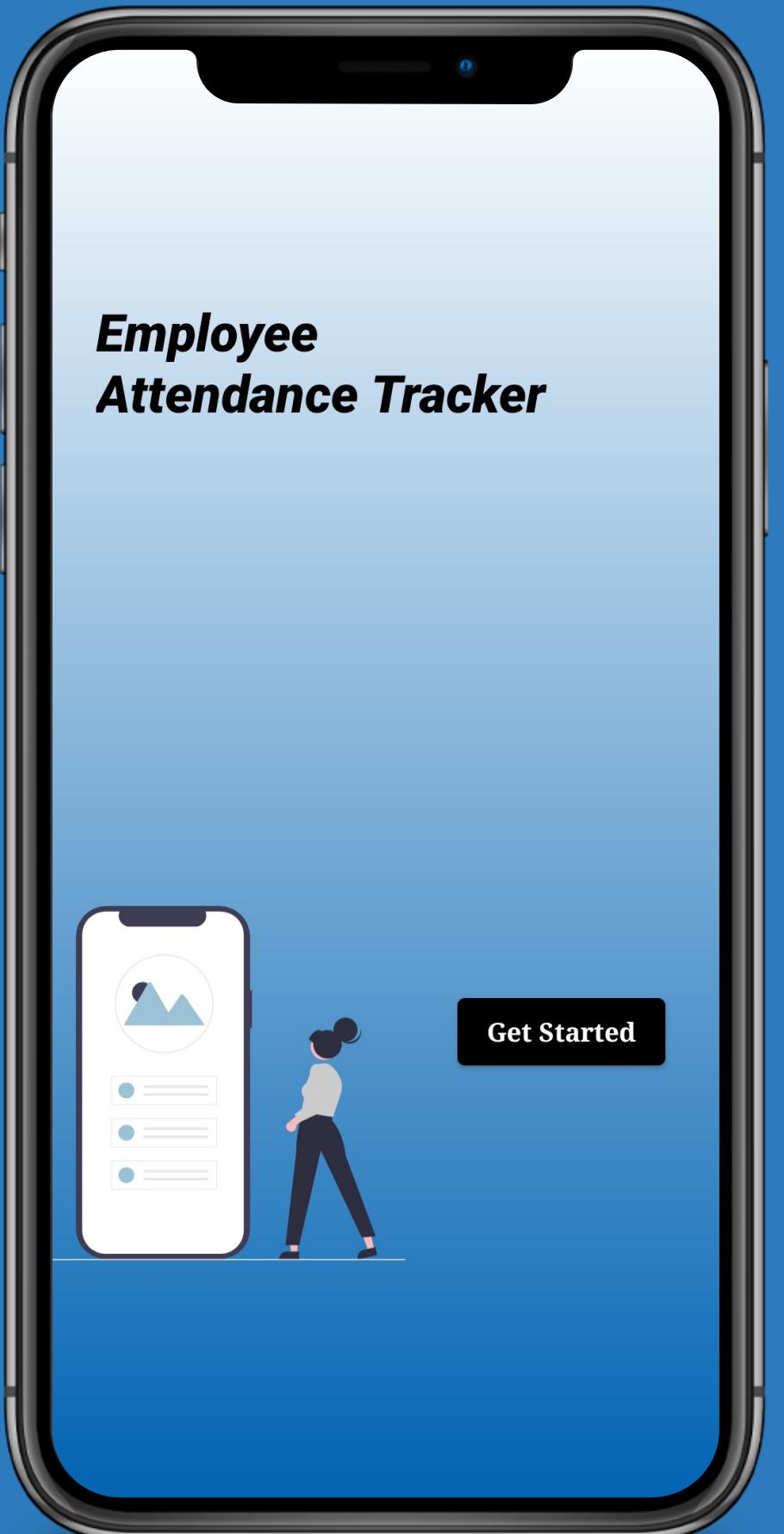
Protect your Storage resources from abuse, such as billing fraud or phishing [Configure App Check](#) X

gs://test-b99e5.appspot.com	Upload file	⋮	
<input type="checkbox"/> Name	Size	Type	Last modified
<input type="checkbox"/> users/	—	Folder	—
<input type="checkbox"/> HolidayList.pdf	241.78 KB	application/pdf	Jun 6, 2021

<https://console.firebaseio.google.com/project/test-b99e5/storage>

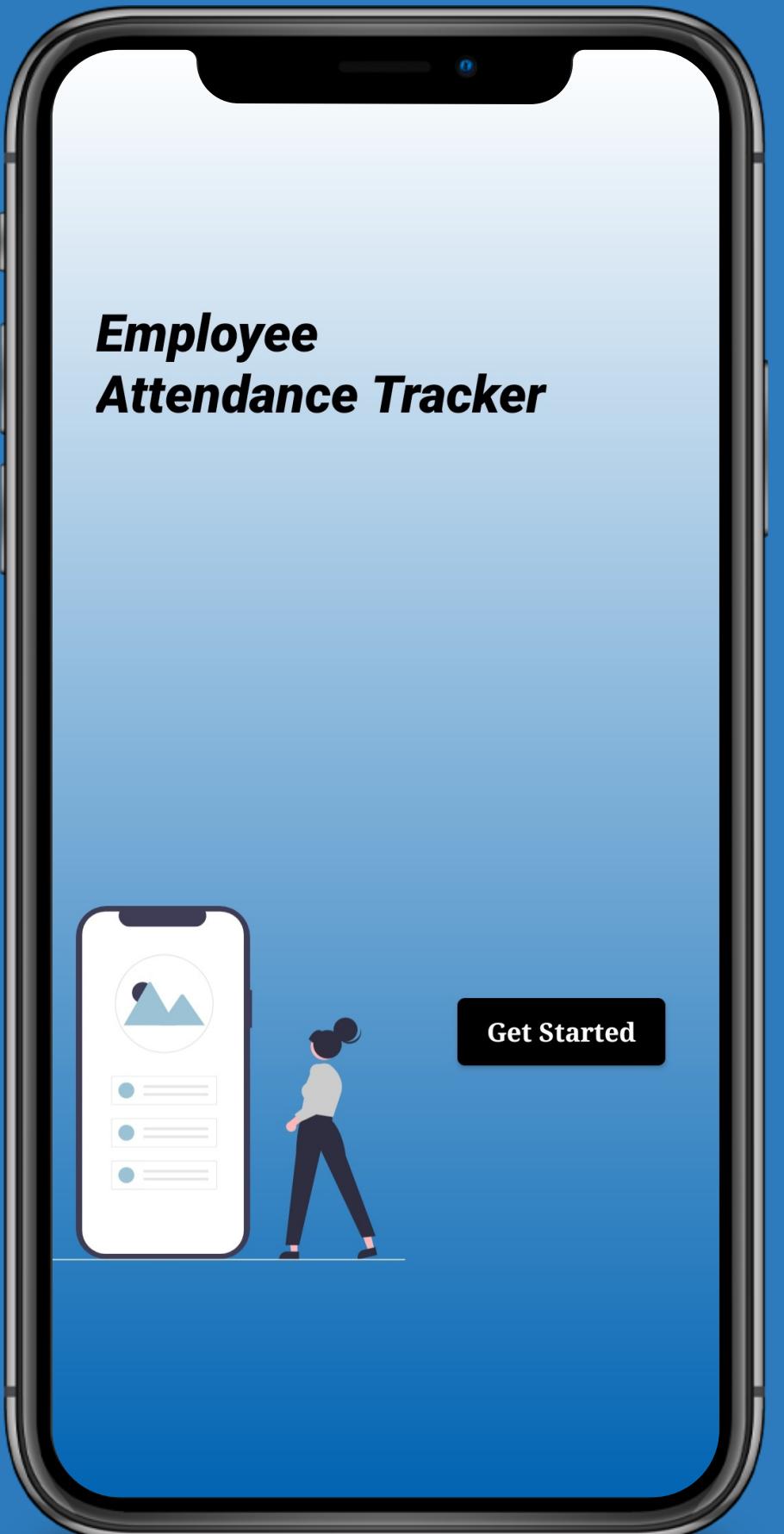
# Advantages

- Users can access and mark attendance any time
- Simple to use and User-friendly
- Save on traditional maintenance fees on hardware
- Keep track of Employees on the go.
- Easy Attendance marking experience.



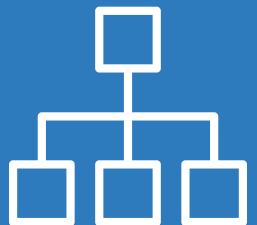
# Future Scope

- Using ML, apply face detection to verify if the user holding the phone to mark attendance is correct.
- Feature of adding leave application page for employee which the employer can see and either accept or reject their leave application.
- Uploading and storing work related documents.



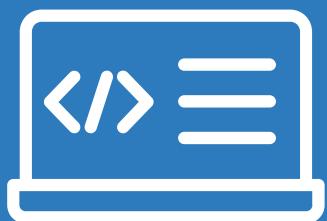
# Documents

## ER Diagram & Software Requirements



[https://drive.google.com/drive/folders/1PcyrvPao2V0ZYtfgLOqHyWSMJ\\_KHS8mr?  
usp=sharing](https://drive.google.com/drive/folders/1PcyrvPao2V0ZYtfgLOqHyWSMJ_KHS8mr?usp=sharing)

## Mock up Design



### **Prototype:**

<https://www.figma.com/proto/65y7yExt5S89c63knKUbhY/Attendance-APP?page-id=0%3A1&node-id=37%3A1627&viewport=513%2C339%2C0.9932039976119995&scaling=scale-down>

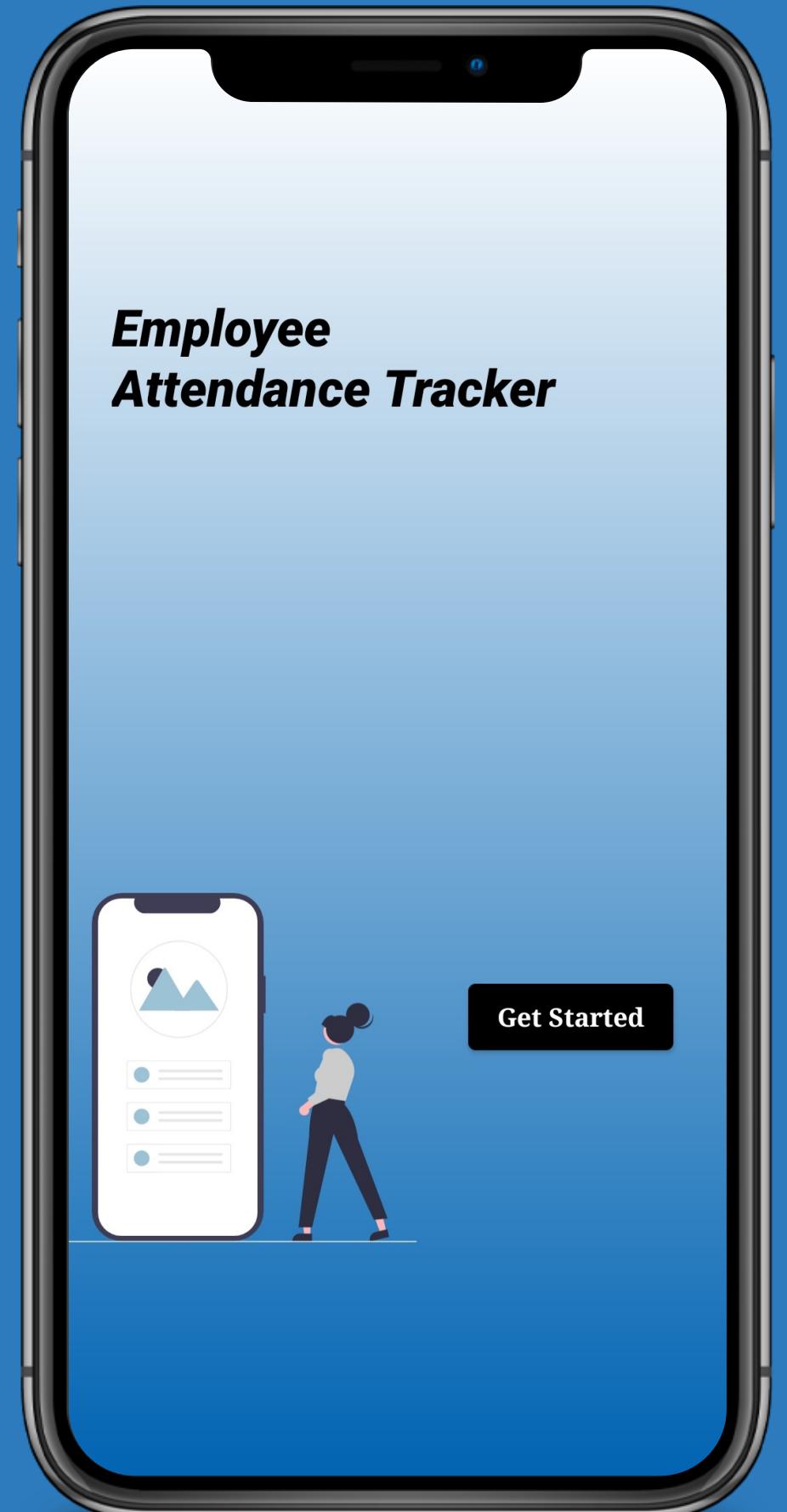
### **Design:**

<https://www.figma.com/file/65y7yExt5S89c63knKUbhY/Attendance-APP?node-id=0%3A1>

## All PDF's

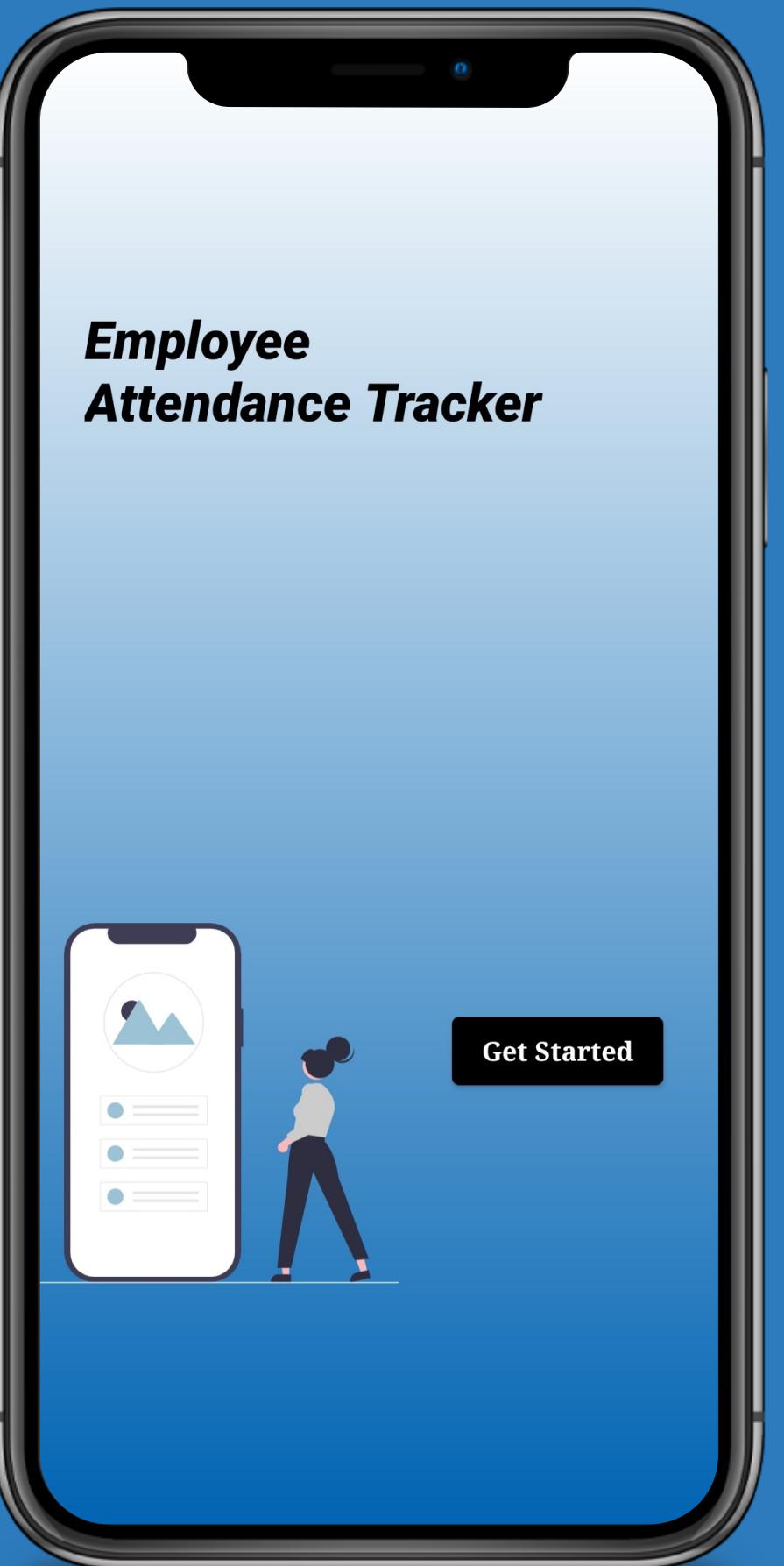


•[https://drive.google.com/drive/folders/194HqJLcLq\\_96UJnNQvwlok4QbAxBg\\_c?  
usp=sharing](https://drive.google.com/drive/folders/194HqJLcLq_96UJnNQvwlok4QbAxBg_c?usp=sharing)



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# Thank You