VVDN SCANNER

Mobile App Android and iOS

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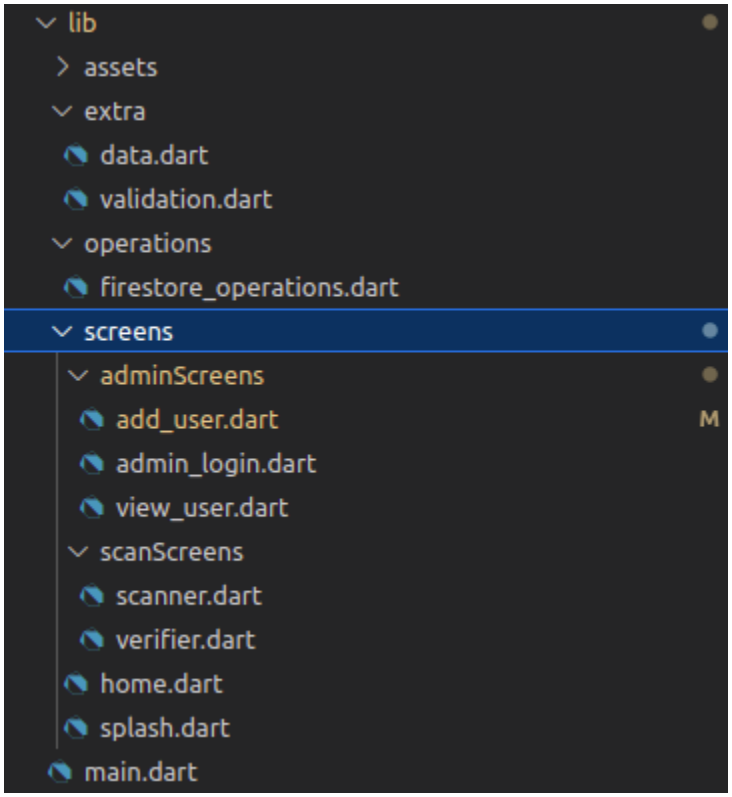
1. Project Description

This is a useful project that helps modernize the process of checking bus passes for our office cab. We are developing an app that allows you to scan employee ID cards and retrieve necessary information within the application, and the admin is also able to add and delete users.

2.Architecture Document

2.1 Folder Structure

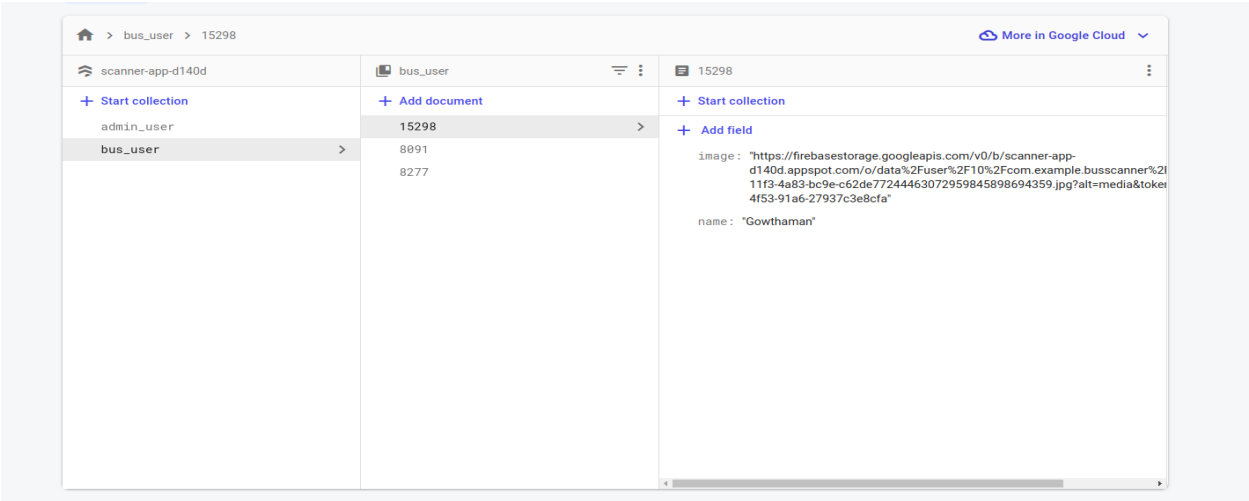
Folder organization helps optimize the performance of an application. Proper folder organization is necessary to avoid bugs and keep your code maintainable.The below folder structure we used.



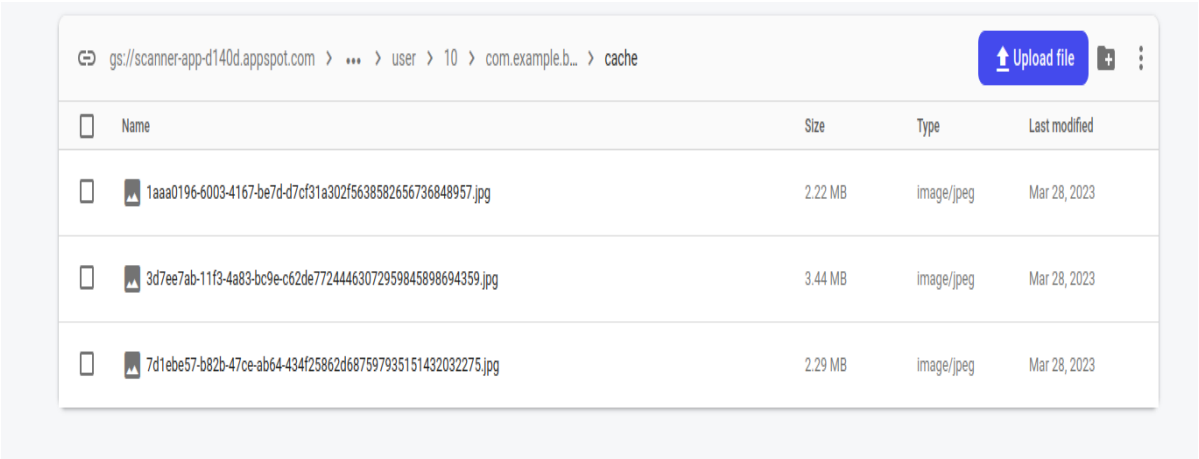
2.2 Firebase Structure

The Firebase Realtime Database lets you build rich, collaborative applications by allowing secure access to the database directly from client-side code. Data is persisted locally, and even while offline, realtime events continue to fire, giving the end user a responsive experience.

Firestore Database



Cloud Storage



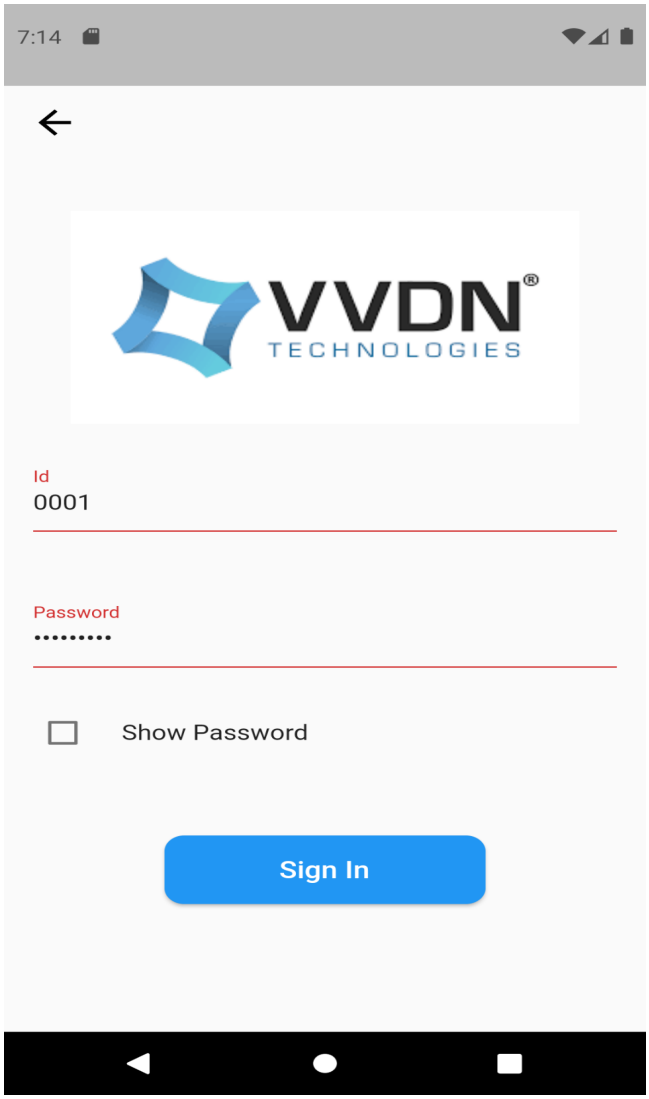
3. Modules

3.1 Admin Module

3.1.1 Login Page

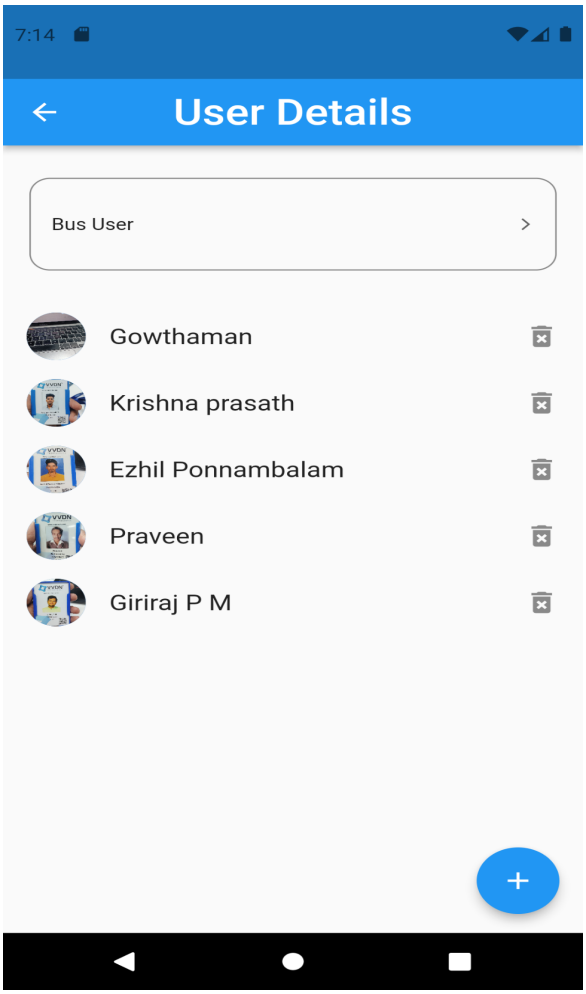
The Login screen contains two credentials id & unique password for each admin user.Both fields are validated and checked with backend(firestore) for valid credentials.if it is true that allows you to proceed further.

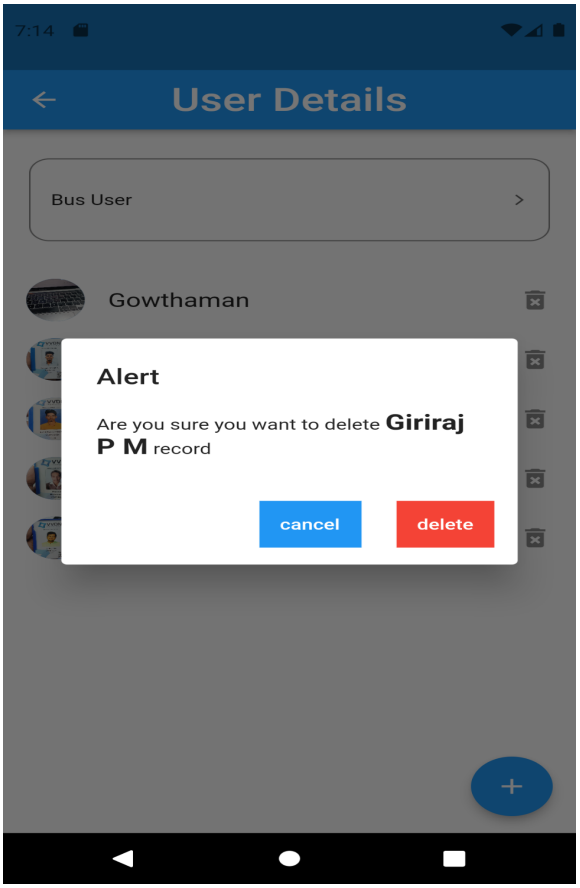
Login Credentials
Admin Id : 0001
Password:Admin@123

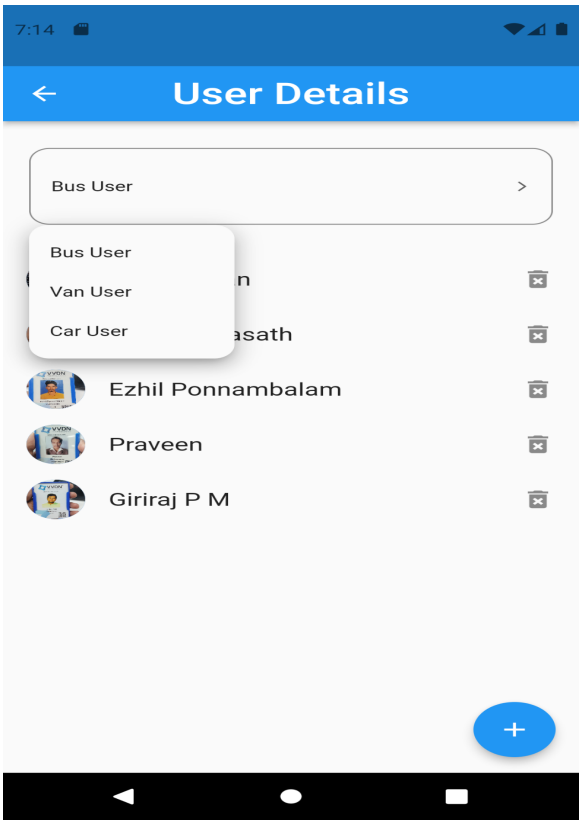


3.1.2 View UserList Page

This page consists of all the existing user details viewed by the admin for the references. And through the dropdown button the admin can change and view different databases like bus,van,car.And also admin can delete/remove the user data from the database by clicking on trash icon present.after the trash icon is pressed the admin get a popup message for confirmation if he/she agree that the record get removed from the database, but if they deny the request the data will not be deleted from the database.

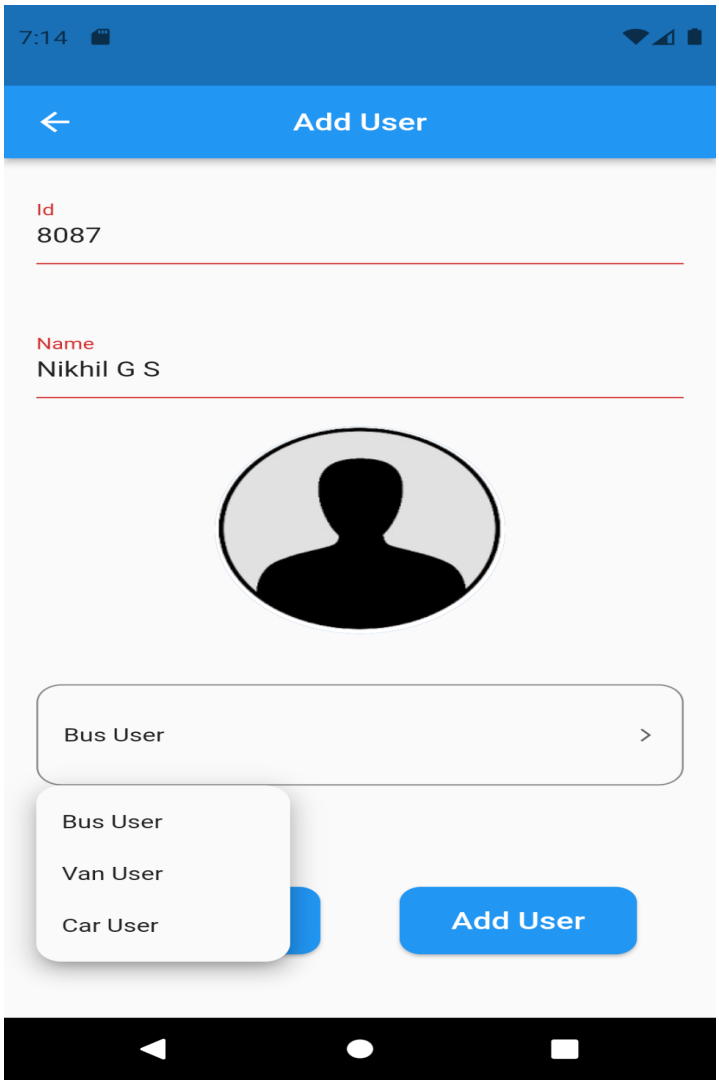



7:14
User Details
Bus User
Gowthaman
Alert
Are you sure you want to delete Giriraj P M record
cancel
delete


7:14
User Details
Bus User
Bus User
Van User
Car User
Ezhil Ponnambalam
Praveen
Giriraj P M

3.1.3 Add New User Page

In the add user page we can create new user data for different types of transport.In this page we have 4 input field for adding new user.First->Id field which we enter the employee id. Second->Name field where we enter the employee name.Third->photo take field which we can take a pic of the employee that will be also stored in the cloud and last one is drop down field we can select the type of transport like bus,car,van. All the fields are validated and required fields,if they all get passed the data will be stored in the firestore database.



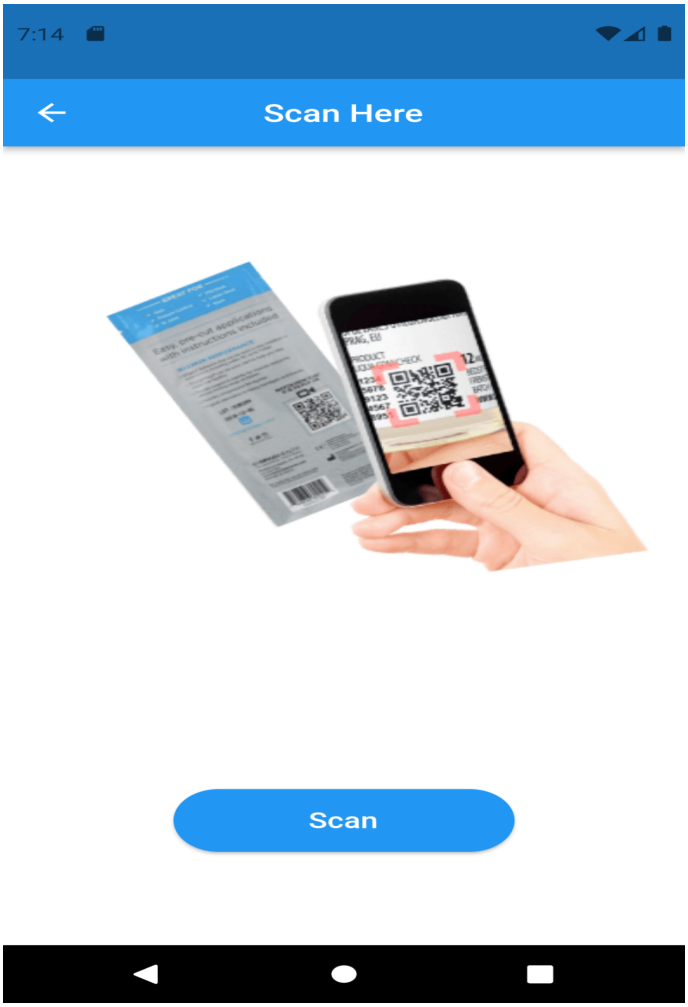
3.2 Scanner Module

3.2.1 Select Vehicle page

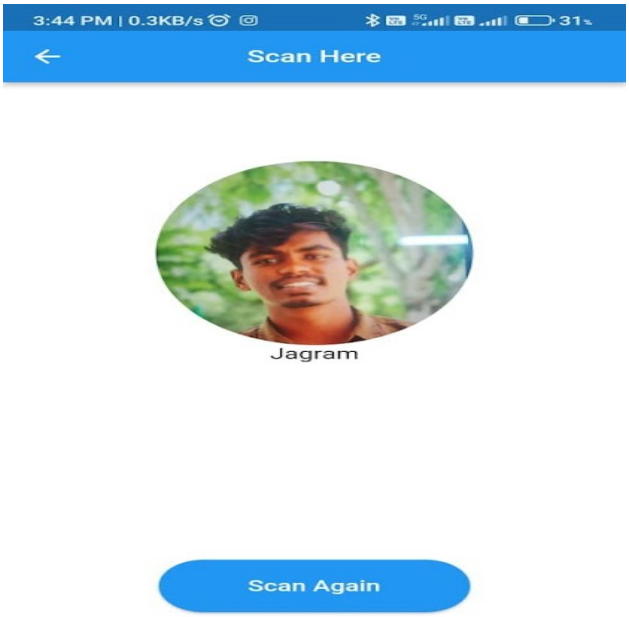
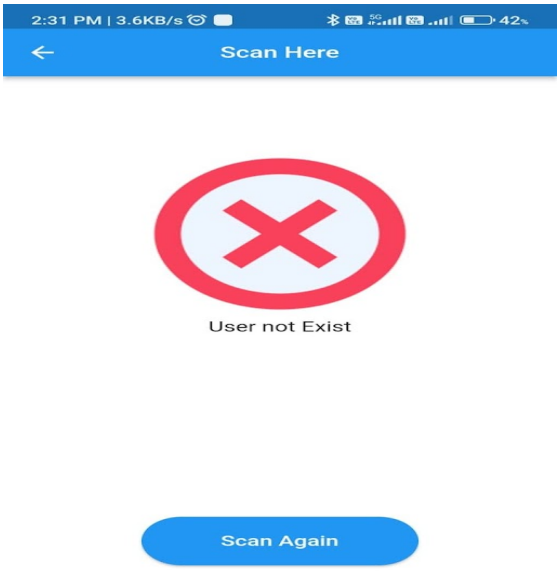
In this page you will select the vehicle type of vehicle like car, bus,van.That will be navigated to the scanner screen next.

3.2.2 Scanner Page

In this page we will perform a scanning operation that will scan the QR code present in your id card and fetch the basic details of the employee and that details will be matched with the firestore database and if the data present it will be displayed else it will show the user does not exist screen.



If a user exists in the database then It will display the photo with the name .



If the user does not exist then it will display as User not Exist.