DIGITAL BUS PASS SYSTEM

Submitted by

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In partial fulfillment of the requirements for the award of the Degree of

Master of Computer Applications from Bharathiar University, Coimbatore.

under the Internal Supervision of

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Sulur, Coimbatore – 641 402.

July 2021 - November 2021.

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Department of Computer Applications (MCA)

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INTERNAL EXAMINER **EXTERNAL EXAMINER**

Certificates

Certificate

This is to certify that the dissertation entitled **DIGITAL BUS PASS SYSTEM**, submitted to the School of Computer Studies, Rathnavel Subramaniam College of Arts and Science in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a record of original project work done by **HARIKRISHNAN A P** during the period July 2021-November 2021 of their study on MCA in the Rathnavel Subramaniam College of Arts and Science, under my internal supervision and the dissertation has not formed the basis for the award of any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate of any University.

Internal Supervisor

Declaration

Declaration

We, **HARIKRISHNAN A P**, hereby declare that the dissertation, entitled **DIGITAL BUS PASS SYSTEM**, submitted to the School of Computer Studies, Rathnavel Subramaniam College of Arts and Science, in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a record of original project work done by we during the period December 2020–March 2021 under the internal supervision of **Dr.G.Pandiyan, Associate Professor**, Department of Computer Applications and it has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or other similar title to any candidate of any University.

Signature of the Candidate

Acknowledgement

Acknowledgement

We express our sincere thanks to our Managing trustee **Dr.K.Senthil Ganesh MBA (USA)., MS (UK)., Ph.D.,** for providing us with the adequate of faculty and laboratory resources for completing my project successfully.

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HARIKRISHNAN A P

DIGITAL BUS PASS SYSTEM

Abstract

Abstract

Buses are an integral means of public transport in India. In metropolitan cities like Mumbai and Delhi, 10-15 million people travel through public transport buses daily. Today, in the era of Digital India (a campaign launched by the Government of India) and Cashless Economy, public transport needs to adapt the technology advancement. Even though the public transport buses have been providing fairly satisfactory services, there is a need for smart and reliable system.

Digital Bus Pass System is a mobile application which helps the passenger to apply and get digital bus pass and they can choose three different variants of daily, weekly and monthly passes with auto generated QR codes valid for specific periods. This will act as an e-Ticket that will be verified by the bus conductor

Frontend Tools/ Technology : React Native

Backend Tools/ Technology : Node

Database Technology : MongoDB

Hosting Environment:

Node: http://localhost:7000

React Native: http://localhost:3000

MongoDB: mongodb://localhost:27017/modelDB

Website link:

Mobile App link:

Git repository link: https://github.com/apharikrishnan

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Module Description

Module Description

1. User Module:

Register: User can register with all their Personal details.

Login: Registered user can Login with their credentials.

Apply Monthly Bus Pass: User can apply Monthly concession bus pass through Mobile Applications

QR Code: On selection of the Bus Pass, the user can access in Local Buses and Conductor Verifies it.

Feedback: User can give their feedback accordingly.

2. Admin

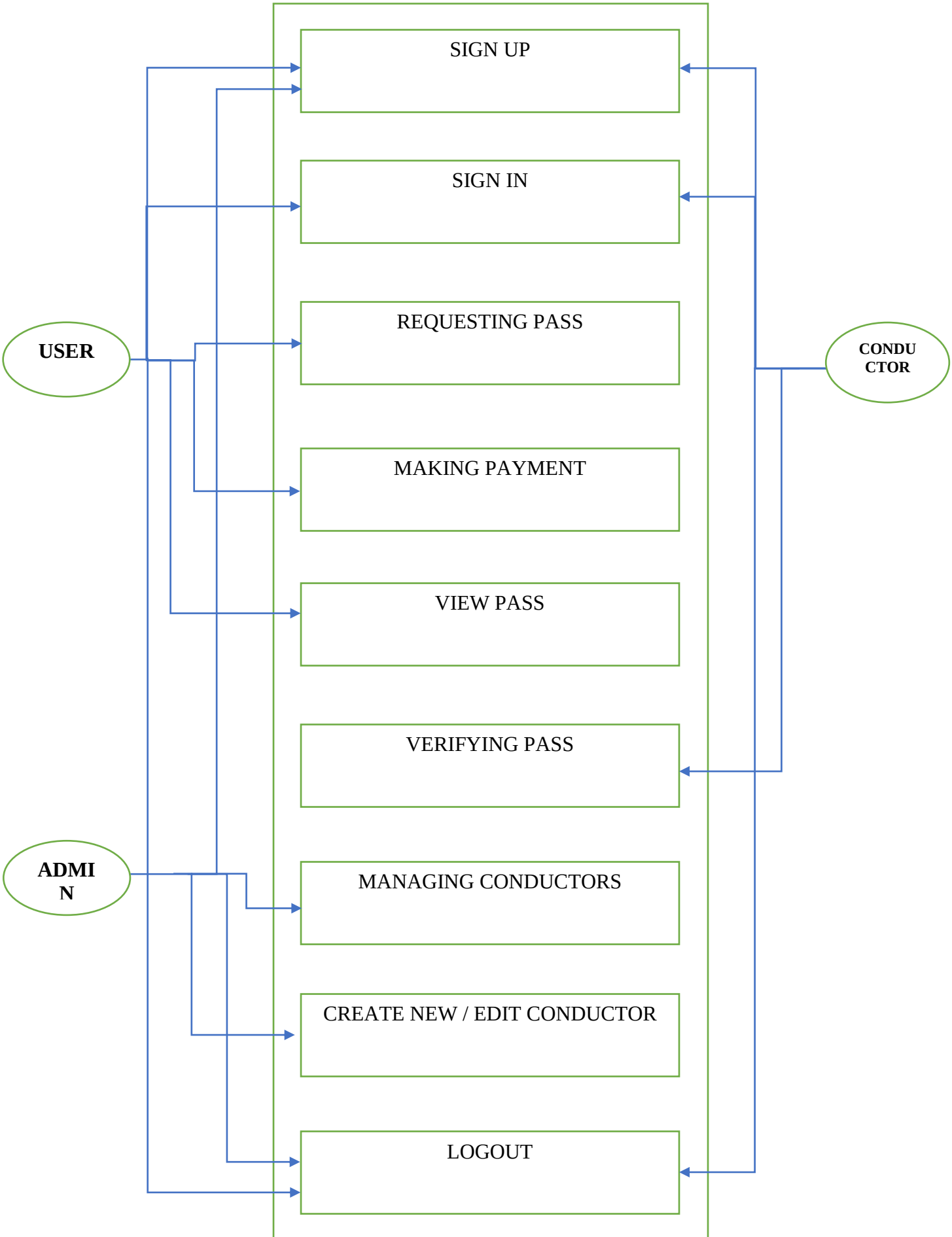
Register: Admin can register with all their Transport Corporation details.

Login: Admin need to login with valid login credentials.

Approval Progress: Monthly Bus Pass can be approved by the Local Transport Officers

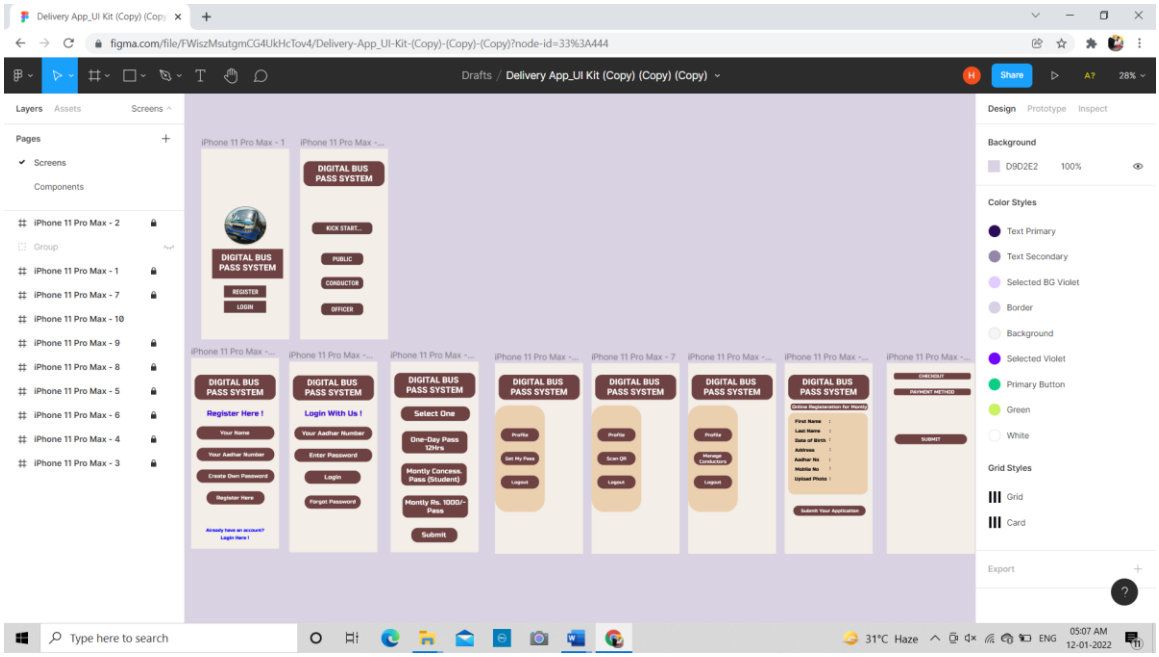
Case Diagram

USE CASE DIAGARAM



Figma

Figma: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Components
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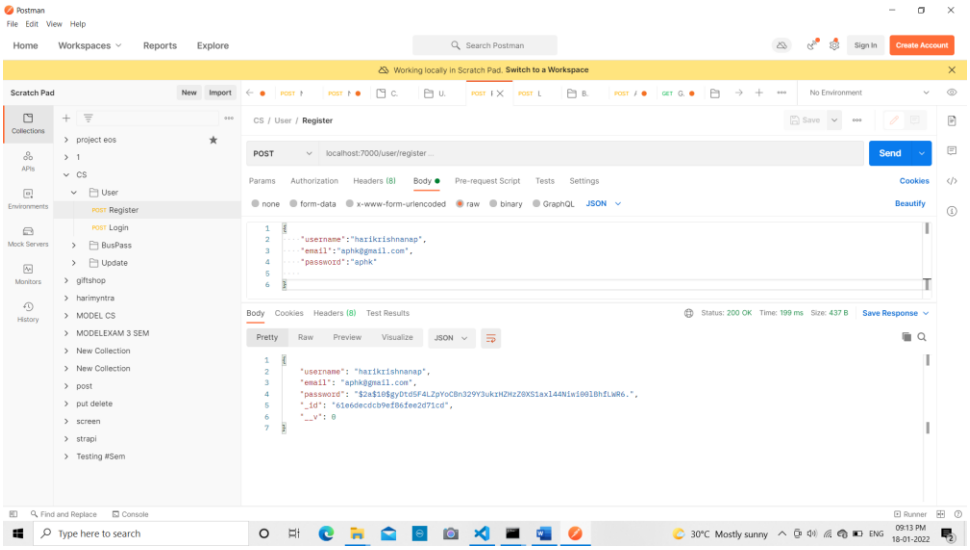
Group
iPhone 11 Pro Max - 1
iPhone 11 Pro Max - 7
iPhone 11 Pro Max - 10
iPhone 11 Pro Max - 9
iPhone 11 Pro Max - 8
iPhone 11 Pro Max - 5
iPhone 11 Pro Max - 6
iPhone 11 Pro Max - 4
iPhone 11 Pro Max - 3
DIGITAL BUS PASS SYSTEM
REGISTER
LOGIN
KICK START...
PUBLIC
CONDUCTOR
OFFICER
Register Here !
Login With Us !
Select One
Submit
Design
Prototype
Inspect
Background
D9D2E2
100%
Color Styles
Text Primary
Text Secondary
Selected BG Violet
Border
Background
Selected Violet
Primary Button
Green
White
Grid Styles
Grid
Card
Export
Type here to search
31°C Haze
ENG
05:07 AM
12-01-2022

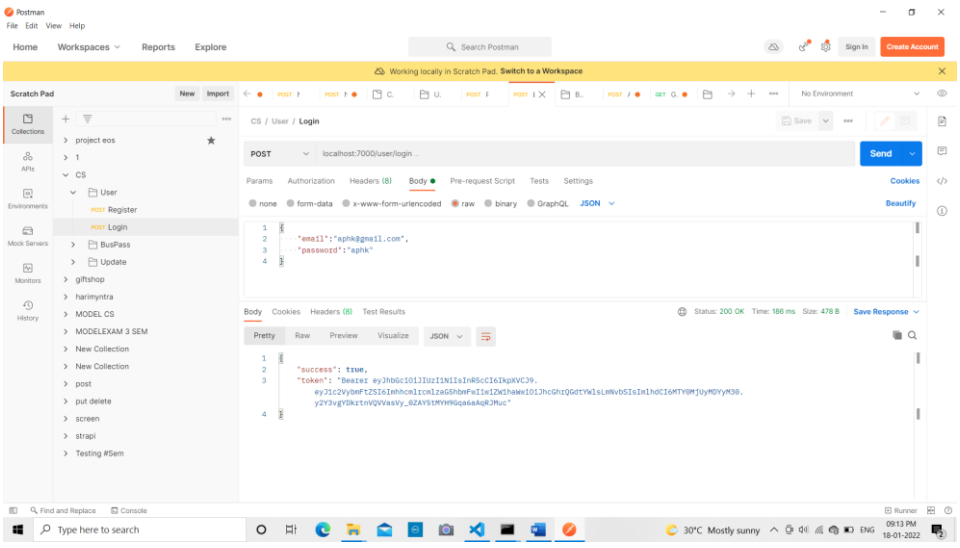
API's Testing

Testing of API:

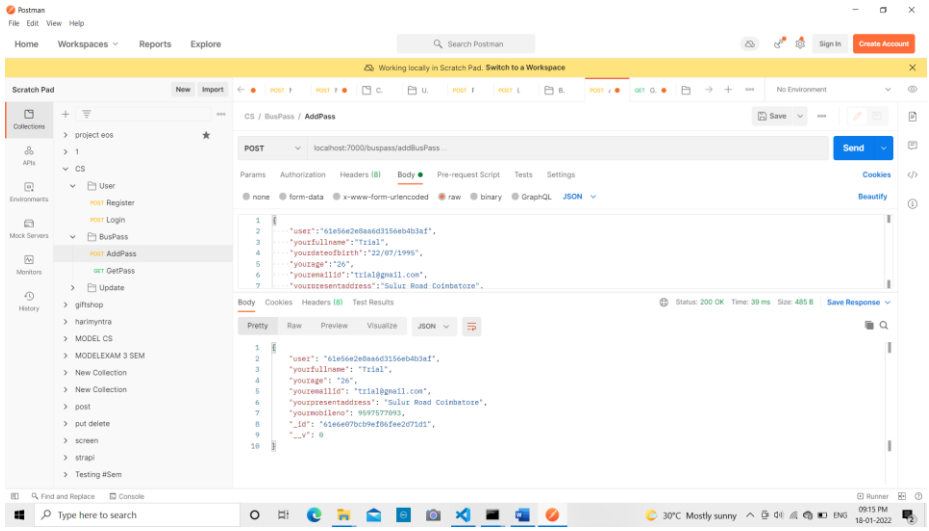
1. User Register:



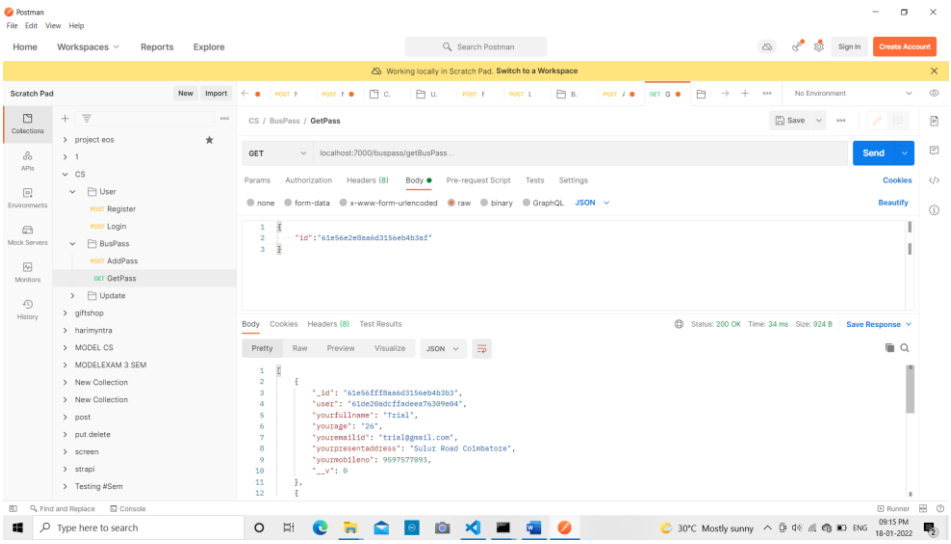
2. User Login:



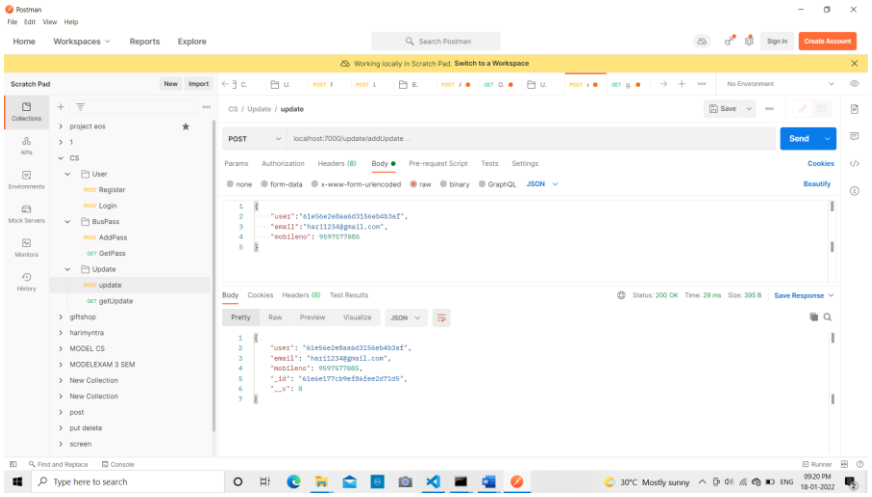
3. Pass Registeration:



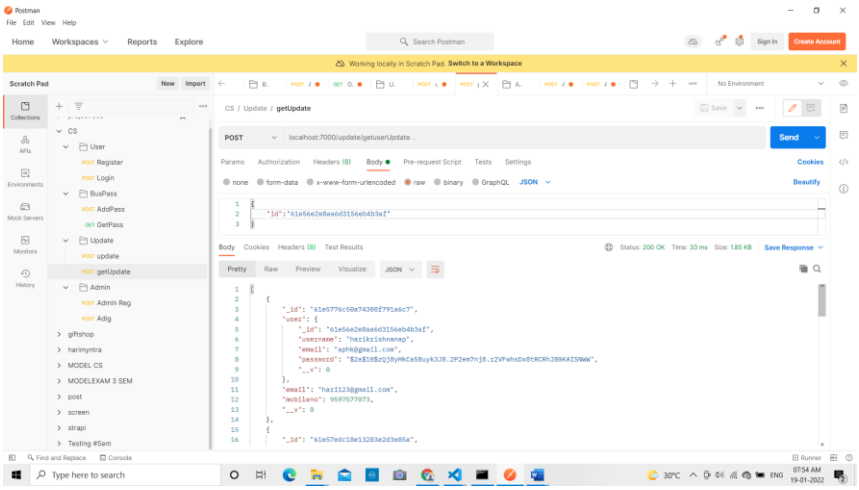
4. View User Pass Registeration:



5. User Update Pass Registeration:



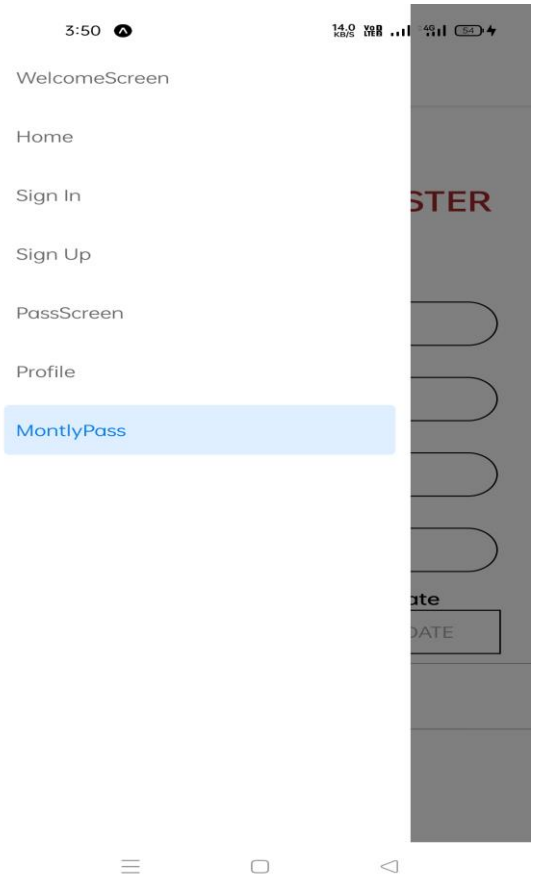
6. User Update Pass Registeration:



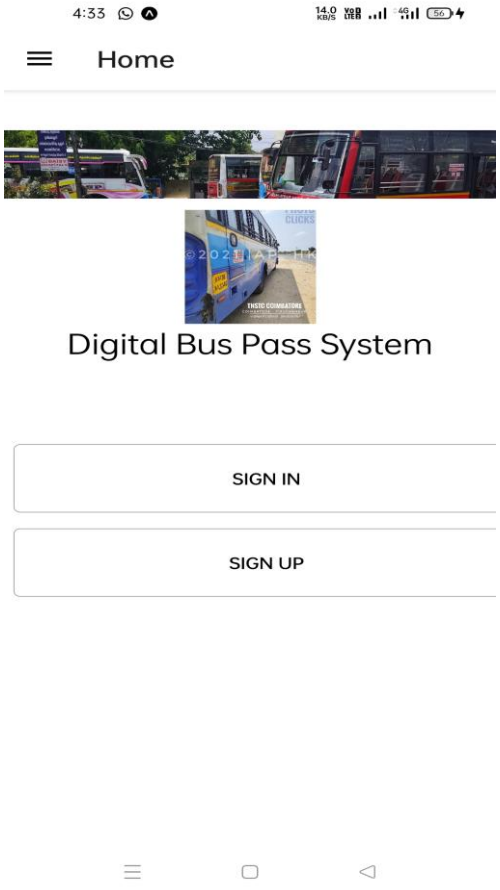
User Manual

User Manual

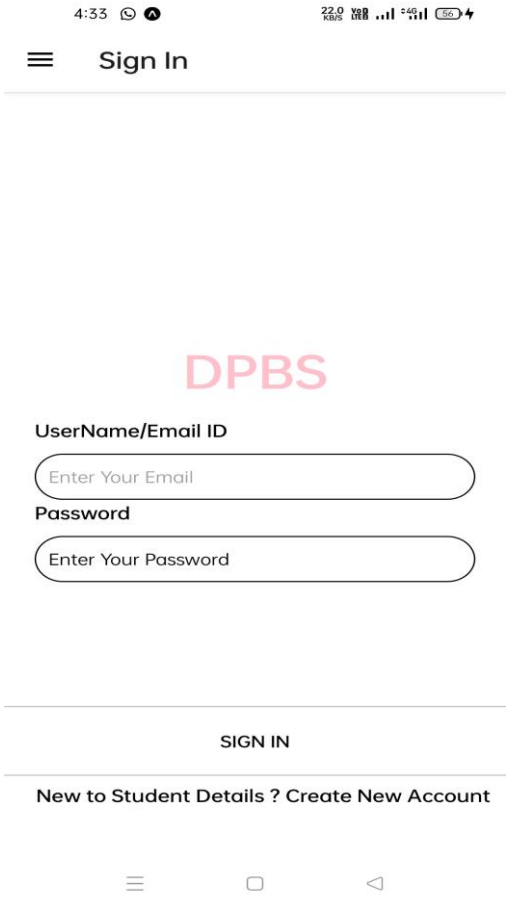
Menu:



Welcome Screen



Sign IN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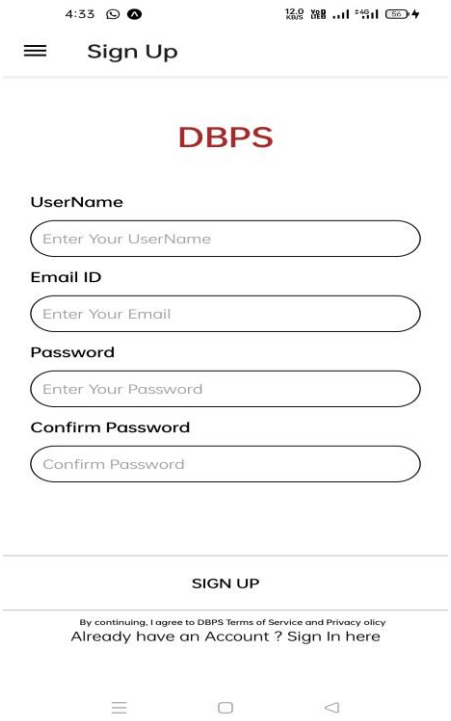
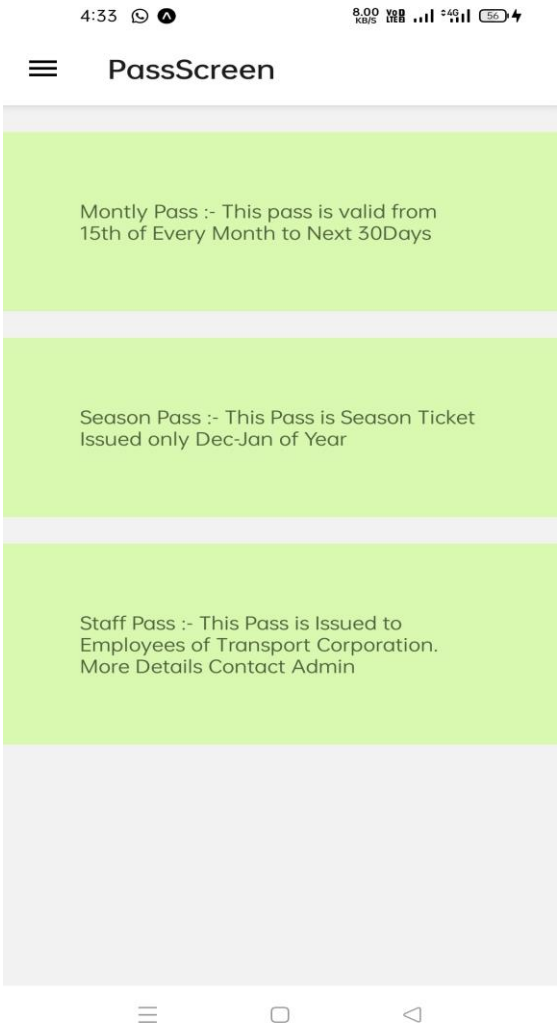
Sign In
DPBS
UserName/Email ID
Enter Your Email
Password
Enter Your Password
SIGN IN
New to Student Details ? Create New Account

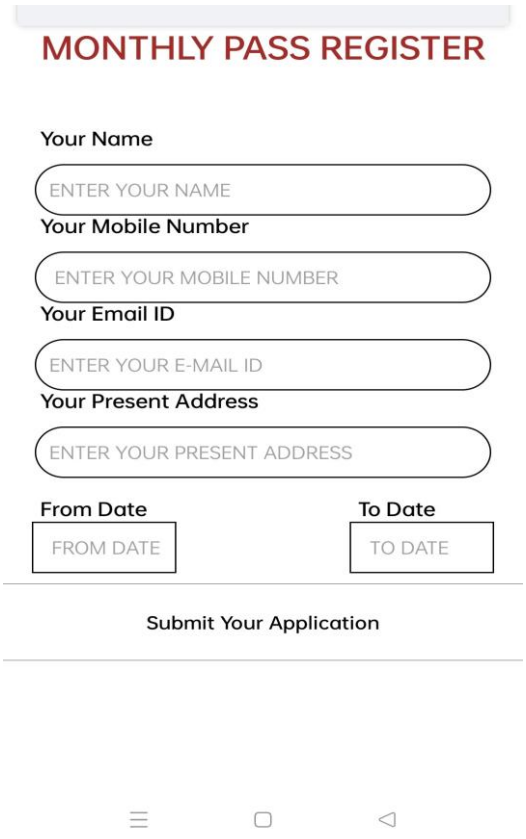
SignUp


4:33
Sign Up
DBPS
UserName
Enter Your UserName
Email ID
Enter Your Email
Password
Enter Your Password
Confirm Password
Confirm Password
SIGN UP
By continuing, I agree to DBPS Terms of Service and Privacy olicy
Already have an Account ? Sign In here

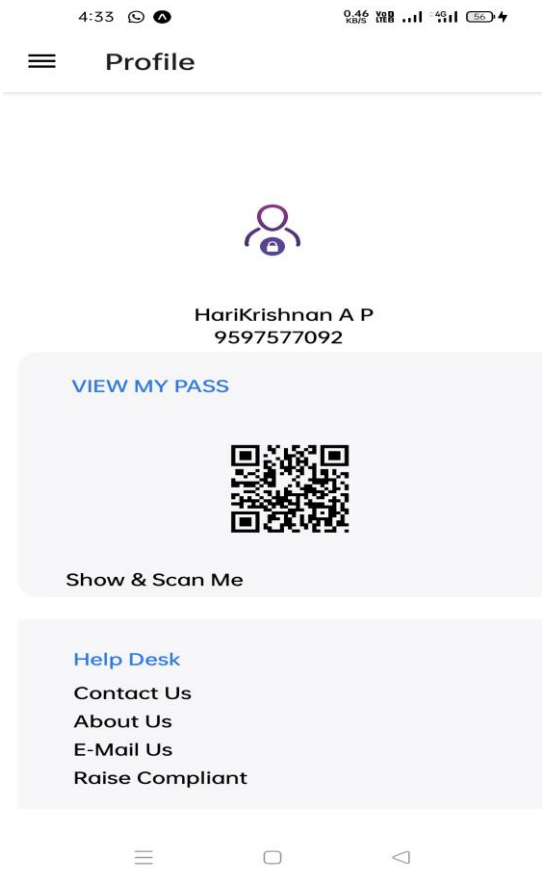
About Bus Pass



Bus Pass Registeration:



My Bus Pass & QR Code



Conclusion

CONCLUSIONS:

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

- ✓ It effectively overcomes the delay in communications.
- ✓ Updating of information becomes so easier.
- ✓ Mobile security, data security and reliability are the striking features.
- ✓ The Mobile Application has adequate scope for modification in future if it is necessary.

Future Enhancement

Future Enhancement:

This application avoids the manual work and the problems concern with it. It is an easy way to obtain the information regarding the various service information that is present in this project.

The next enhancement that we can add the searching option. We can directly search to the particular Schemes and making payment mode from this Application with Auto Generated QR. These are the two enhancements that we could think of at present.