

# ADVANCE DIGILOCKER


**TEAM NAME : THE DREAM BUILDER**

*Presented By*

*Akshay Zade  
Bhagyashree bhoyar  
Anushree Kawley*

*Khushali Umate  
Payal Telrandhe  
Shubham Shiwarkar*

**Computer Science And Engineering**  
**Datta Meghe Institute Of Engineering , Technology & Research,**  
**Sawangi (Meghe), Wardha .**  
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# INTRODUCTION:

## ❑ “ADVANCED DIGILOCKER”:

Driving License and Vehicle Registration certificates can now be access through smart phones.

User can also check Insurance as well as pollution expiry details(PUC).Vehicle documents verification is done by using QR code .

This application contains two sub-application: One is user application Advance Digilocker and second is Vehicle Verification Application.

The traffic police will simply scan the QR code in user's application and then all the documents will be displayed on the verifier application.



# PROBLEM DEFINITION:

## ❑ POTENTIAL OF DIGILOCKER:

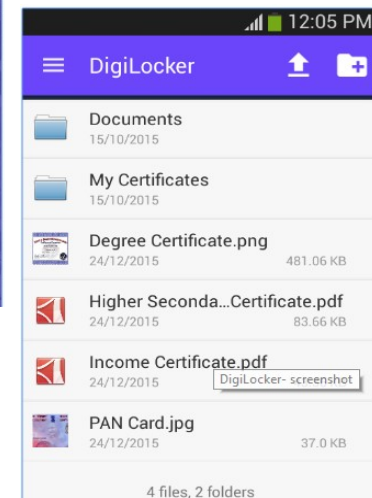
- Driving license and Vehicle registration certificates can be accessed through mobile application.
- Integration of Digilocker with driving license and Vehicle Registration Certificates(RC).
- Government want to further development of Digilocker application to check the insurance as well as pollution expiry details(PUC) And Verify it.



# LITERATURE REVIEW:

## DigiLocker Application:

DigiLocker is a key initiative under Digital India, the Government of India's flagship program aimed at transforming India into a digitally empowered society and knowledge economy. Targeted at the idea of paperless governance, DigiLocker is a platform for issuance and verification of documents & certificates in a digital way, thus eliminating the use of physical documents. The DigiLocker website can be accessed at <https://digitallocker.gov.in/>. You can now access your documents and certificates from your DigiLocker on your mobile devices



**DigiLocker** is aimed at the concept of paperless governance.

It offers the following **Benefits**:

- Citizens can access their digital documents anytime, anywhere and share it online. This is convenient and time saving.
- It reduces the administrative overhead of Government departments by minimizing the use of paper.
- Digital Locker makes it easier to validate the authenticity of documents as they are issued directly by the registered issuers.
- Self uploaded documents can be e-Signed which is similar to the process of self-attestation.

### **Drawbacks of DigiLocker :**

- Speed And Bandwidth
- Working On Image
- No Compression Technique
- No Verification
- No Notification
- No Details about PUC and Insurance



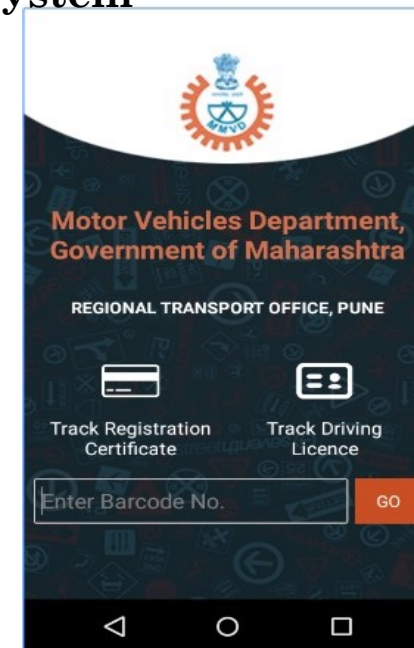
## Driving License Info



## RTO Vehicle Information



## RTO RC and DL Tracking System



As per our survey, above applications are available to check the details of vehicle documents but these applications are not working as per user requirements.



## OBJECTIVES:

- Enable digital empowerment of residents by providing them with Digital Locker on the hosting.
- Enable e-Signing of documents and make them available electronically and online minimize the use of physical documents.
- Ensure authenticity of the e-documents and there by eliminate usage of fake documents.
- Secure access to Govt. issued documents through a web portal and mobile application for residents.
- Reduce administrative overhead of Govt. departments and agencies and make it easy for the residents to receive services.
- Anytime, anywhere access to the documents by the resident.
- Ensure privacy and authorized access to residents' data.





# PROPOSED SYSTEM DESIGN

## ❖ **Data Encryption:**

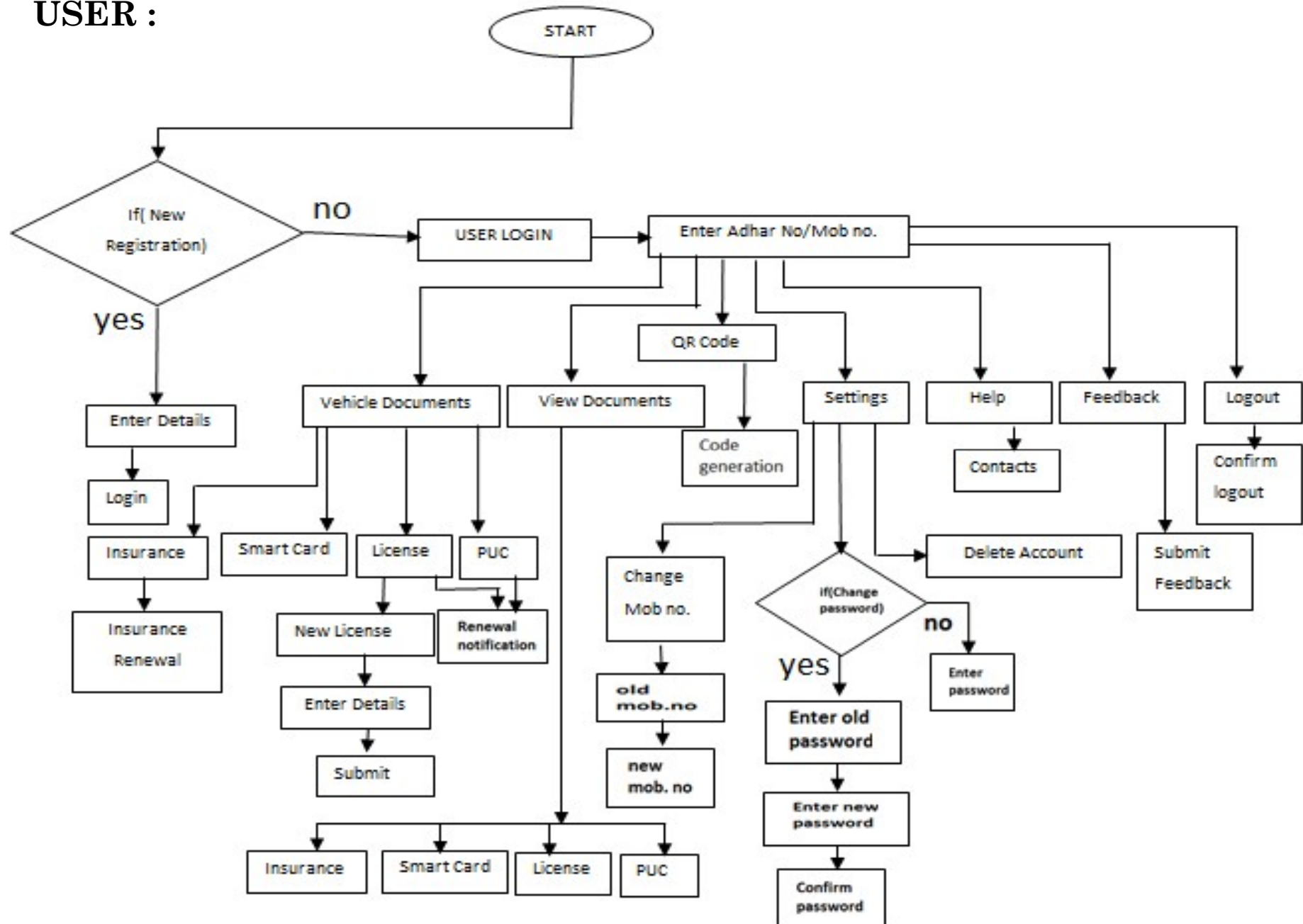
- **AES Algorithm**(Advance Encryption standard):-  
AES is a symmetric encryption algorithm.  
Data entered by user is encrypted by AES algorithm for specific fields.
- **Random Algorithm:**  
Random Algorithm is an used for the OTP generation.

## ❖ **Verification:**

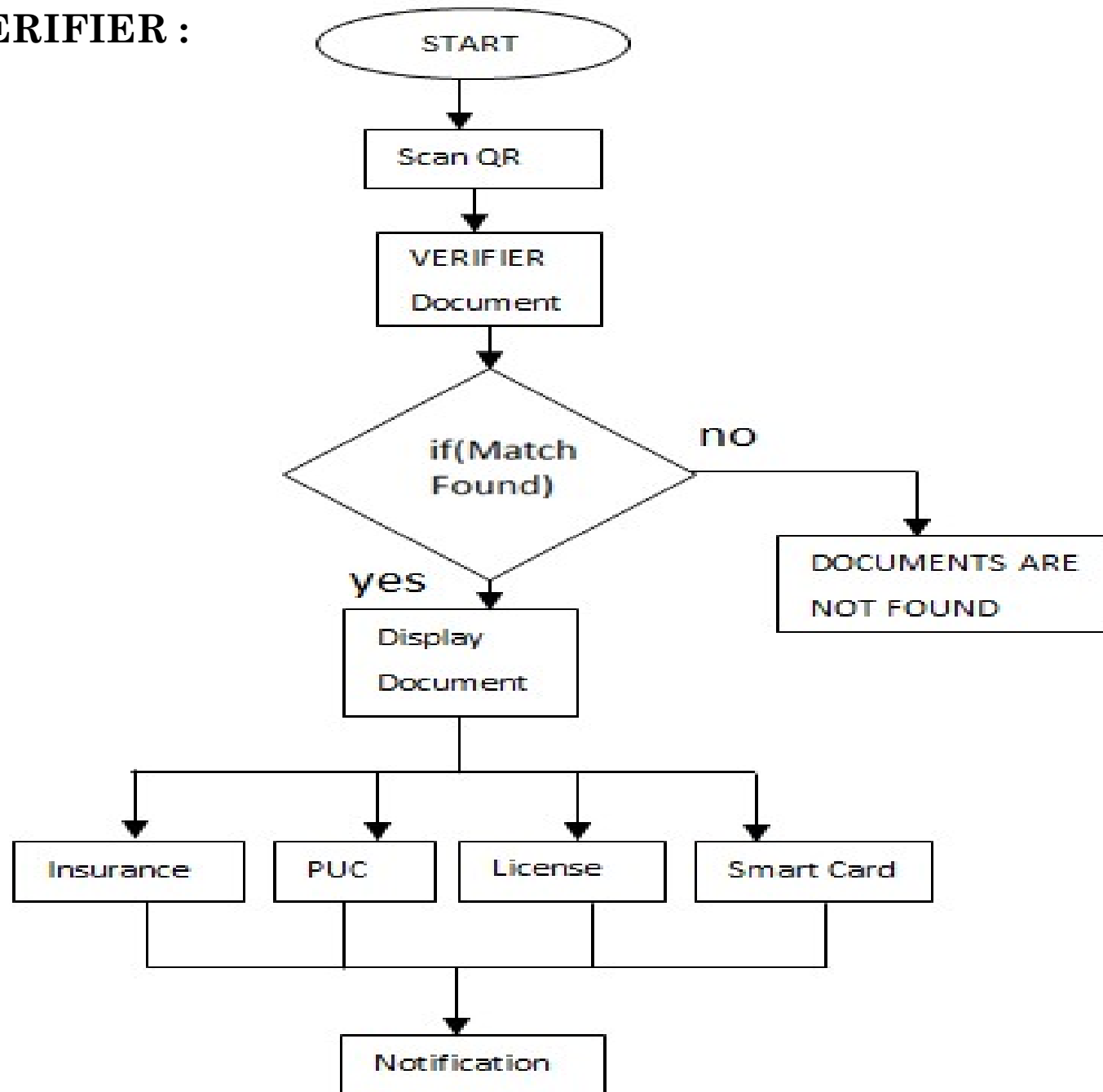
- **MAC** (Message Authentication code):  
Using MAC, OTP will be send on the mobile no while login and registration ,  
which is mentioned in the Adhar card and registered by user.  
OTP will be sent on user's registered email-Id.



USER :



## VERIFIER :



# HARDWARE/SOFTWARE USED:

## ➤ **HARDWARE:**

### ☐ Android Phone

- Mobile must be running with minimum 512 MB of RAM and Android Version above (Ice-cream Sandwich).
- Device should contain Camera 3.2 MP because apps use the QR code with 25\*25 module (27 character).  
Camera with auto focus.
- Desktop/Laptop

## ➤ **SOFTWARE:**

### ☐ Android Studio 2.2.3

### ➤ XML

### ➤ PHP

### ➤ java

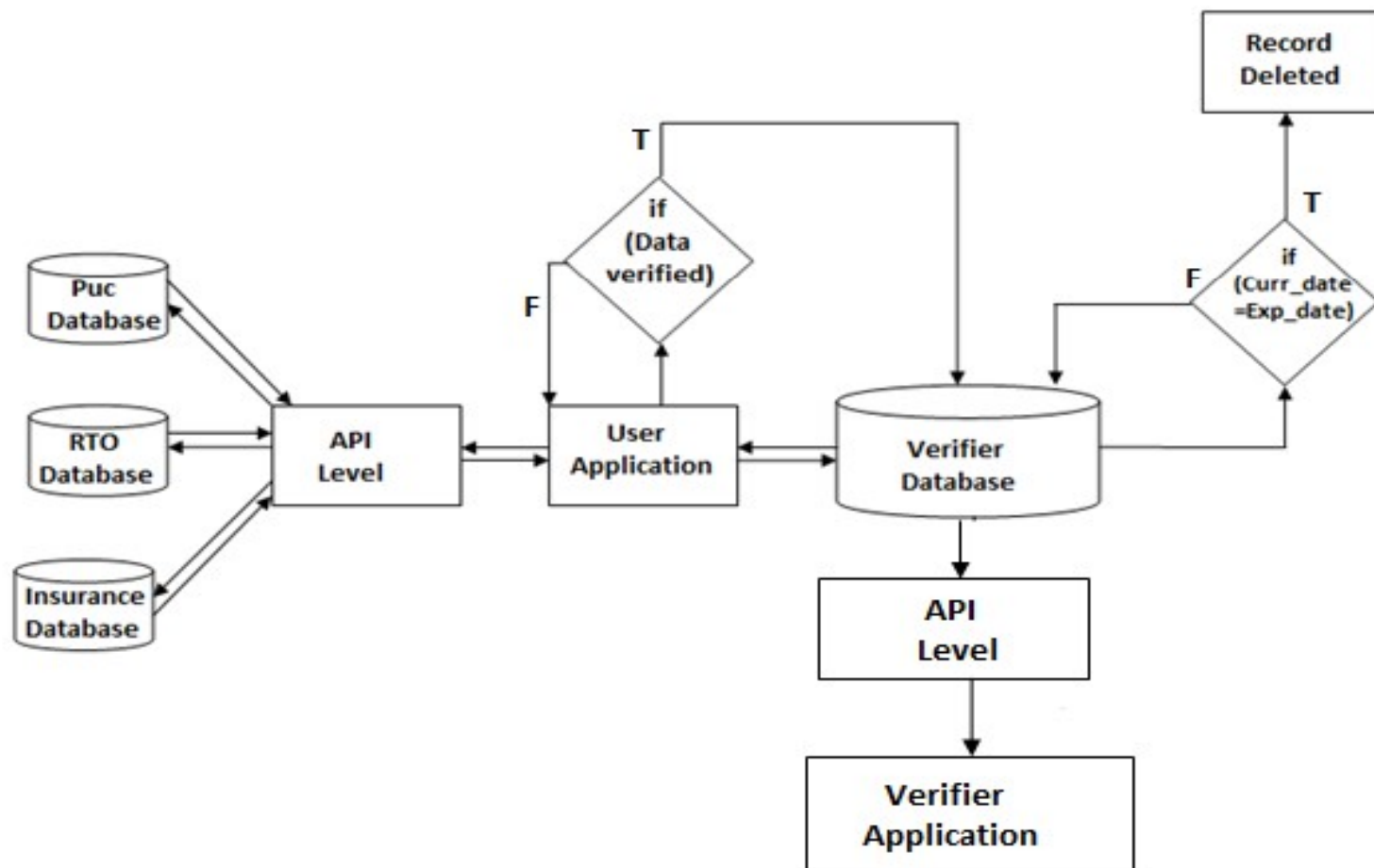
### ☐ Database

### ➤ WAMP(offline)

### ➤ Hosting(online)



# SYSTEM ARCHITECTURE:



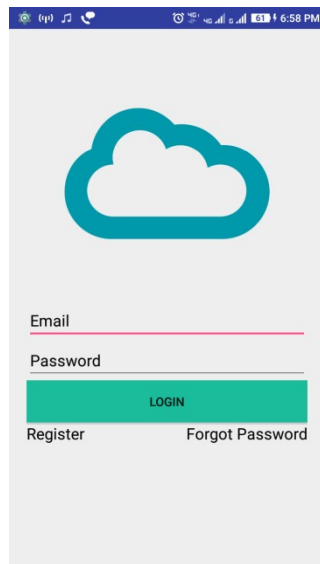
## ADVANTAGES:

- Fast Access Time.
- Decrease frauds.
- It reduces use of physical documents.
- At any time anywhere access.
- Easy to validate Authenticity.



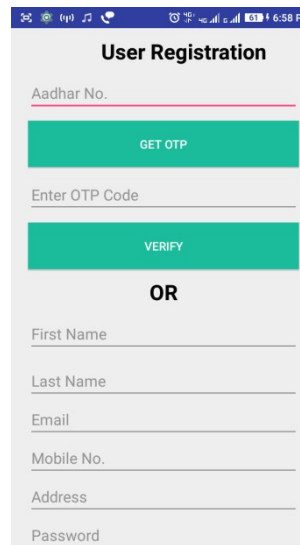
# MODULE DESCRIPTION :

## ❑ USER APPLICATION:



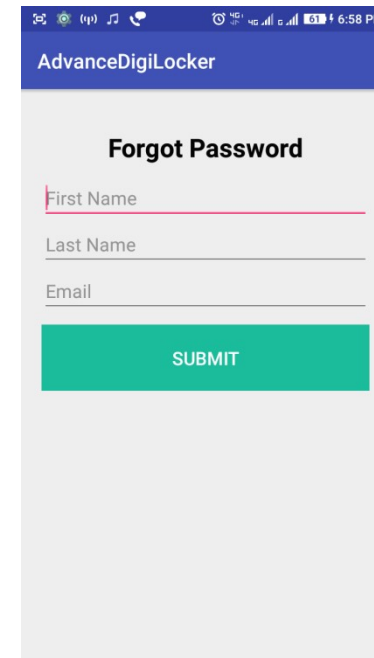
A mobile app login screen with a blue header bar. In the center is a large blue cloud icon. Below it are input fields for 'Email' and 'Password'. A blue 'LOGIN' button is positioned below the password field. At the bottom, there are two links: 'Register' on the left and 'Forgot Password' on the right. The status bar at the top shows the time as 6:58 PM.

Fig: Login Screen



A mobile app user registration screen with a blue header bar. The title 'User Registration' is centered. The form includes an 'Aadhar No.' field, a blue 'GET OTP' button, an 'Enter OTP Code' field, and a blue 'VERIFY' button. Below these is a section separator 'OR'. The registration form contains fields for 'First Name', 'Last Name', 'Email', 'Mobile No.', 'Address', and 'Password'. The status bar at the top shows the time as 6:58 PM.

Fig: Registration



A mobile app 'Forgot Password' screen with a blue header bar. The title 'Forgot Password' is centered. The form includes input fields for 'First Name', 'Last Name', and 'Email'. A blue 'SUBMIT' button is located below the email field. The status bar at the top shows the time as 6:58 PM.

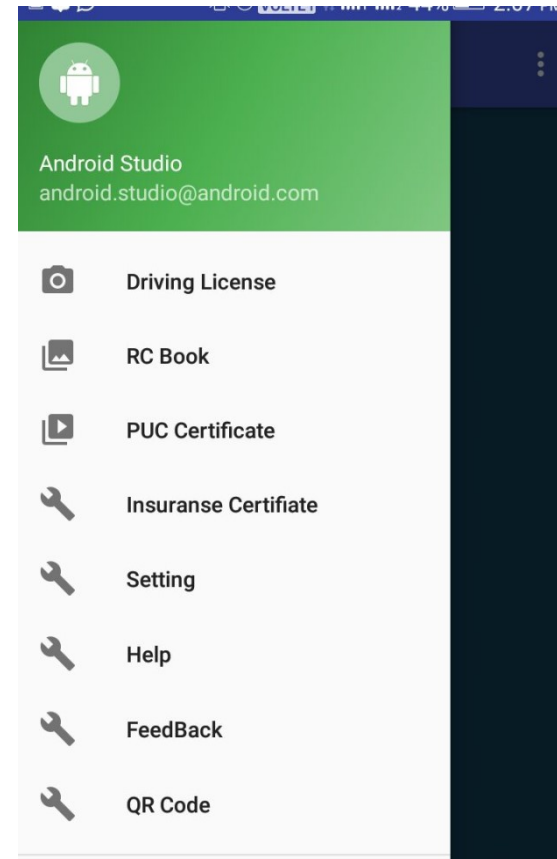
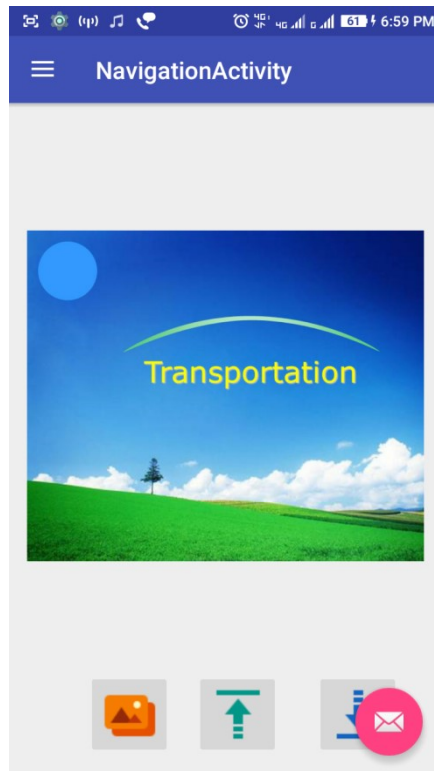
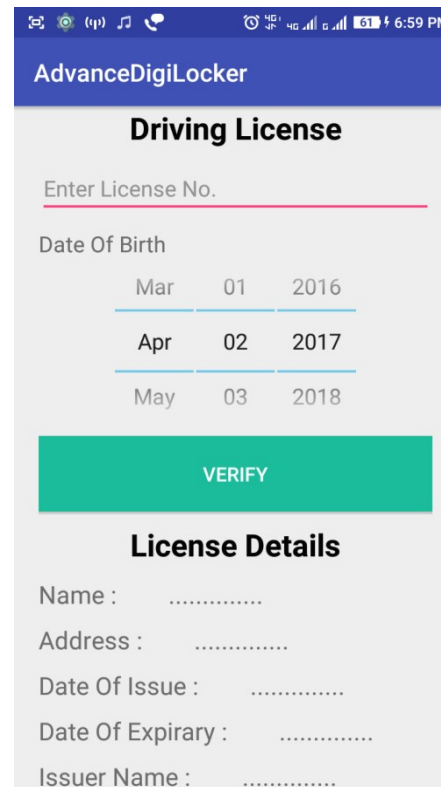
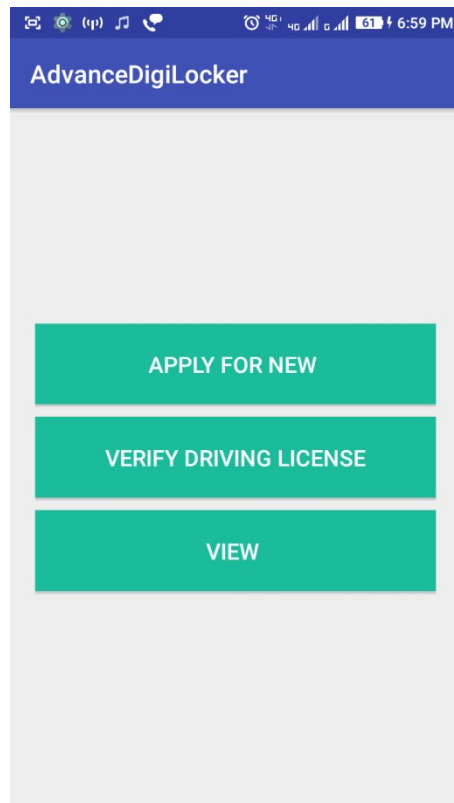
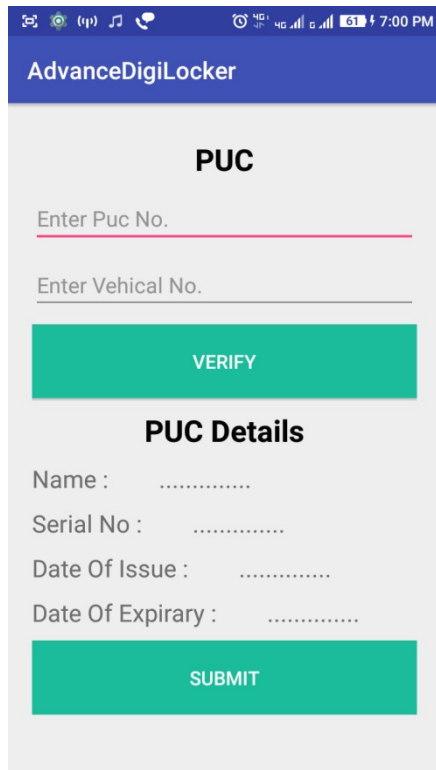


Fig : Navigation Drawer







AdvanceDigiLocker

**PUC**

Enter Puc No. \_\_\_\_\_

Enter Vehical No. \_\_\_\_\_

**VERIFY**

**PUC Details**

Name : \_\_\_\_\_

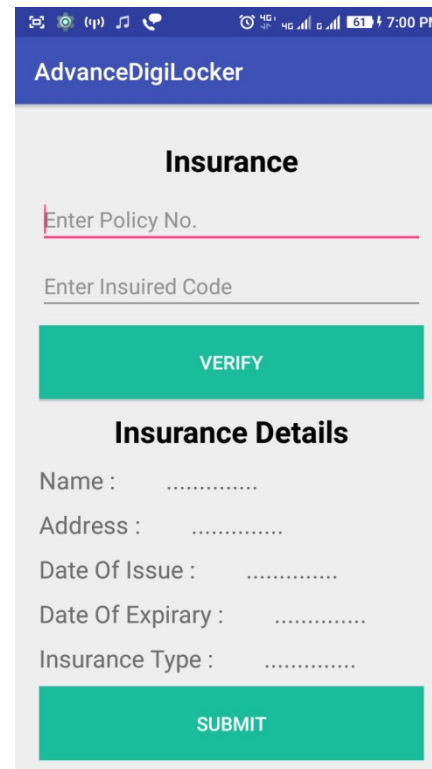
Serial No : \_\_\_\_\_

Date Of Issue : \_\_\_\_\_

Date Of Expiry : \_\_\_\_\_

**SUBMIT**

Fig: PUC



AdvanceDigiLocker

**Insurance**

Enter Policy No. \_\_\_\_\_

Enter Insured Code \_\_\_\_\_

**VERIFY**

**Insurance Details**

Name : \_\_\_\_\_

Address : \_\_\_\_\_

Date Of Issue : \_\_\_\_\_

Date Of Expiry : \_\_\_\_\_

Insurance Type : \_\_\_\_\_

**SUBMIT**

Fig : Insurance Certificate



## ❑ VERIFIER APPLICATION :



Fig: QR Code Scanner



Fig: Driving License



Verification

MOTOR INSURANCE CERTIFICATE CUM POLICY  
SCHEDULE MOTORIZED TWO WHEELERS PACKAGE  
POLICY - ZONE B

Policy No : .....

Insured Code : ..... Insured Name : .....

Address : ..... Email : .....

Phone No : ..... Agent Name : .....

Agent No : ..... Insurance type : .....

Vehicle No : ..... Engine No : .....

Issue Office Code : .....

Issue Office Name: ..... Address : .....

Email: ..... phone No: .....

Date From: ..... Date Till: .....

Period of insurance: ..... chassis No: .....

Service tac: .....

Fig: Insurance

Verification

MAHARASHTRA MOTOR  
VEHICLES DEPARTMENT

Pollution Test Certificate For  
2/3/4 Wheeler AND Heavy PETROL/C.N.G /L.P.G

Motor Vehicle No : .....

Date Of Issue : .....

Date Of Expiry : .....

Serial No	Emmission Test Result
.....	CO Monoxide : .....
.....	Hydro Carbon : .....
.....	Non-Methane HC : .....
.....	Reactive HC : .....

FINISH

Fig: PUC



Fig: Smart Card

## ❑ DATABASE

**VEHICLE DOCUMENTS DATABASE**

Driving Licence

RC Book

INSURANCE

PUC

AADHAR

**SORT DL**

DL\_No

First\_Name

Issue\_Date

Expiry\_Date

**SORT RC**

Card\_No

Register\_No

Register\_Date

Expiry\_Date

**SORT INSURANCE**

Policy\_No

Insured\_Name

Date\_From

Date\_Till

**SORT PUC**

PUC\_No

Register\_date

Test\_Date

Expiry\_Date

**SEARCH DL**

DL\_No

First\_Name

Issue\_Date

Expiry\_Date

**SEARCH RC**

Card\_No

Register\_No

Register\_Date

Expiry\_Date

**SEARCH INSURANCE**

Policy\_No

Insured\_Name

Date\_From

Date\_Till

**SEARCH PUC**

PUC\_No

Register\_date

Test\_Date

Expiry\_Date



## CONCLUSION:

“Advance Digital Locker scheme launched under the Ministry Of Road And Transport is a good initiative taken by the Govt. of India to ensure safe custody of the important documents such as Driving License , PUC, Insurance ,Smart Card/RC Book etc. which Verify the Vehicle User electronically.

This move would in turn result in much more transparency, authenticity and eradication of red tapes and corruption to the maximum extent possible. This is a refreshing move towards making India ‘Digital’ .

Thus, for the program to be a success, it becomes imperative that there is absolute coordination between the departments and utmost commitment on the part of ministries .



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THANK YOU...

