



**INSTITUTE FOR  
ADVANCED COMPUTING  
AND SOFTWARE  
DEVELOPMENT AKURDI,  
PUNE**

Documentation On

**“RTO Management System”**

PG-DAC SEPT 2021

*Submitted By:*

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Project Guide**

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# 1. INTRODUCTION

## **Introduction:**

RTO is a web system that provides the function and features to authenticate and identify the users and provide them with easy, intuitive, personalized and user-customizable web-interface for facilitating access to information and services that are of primary relevance and interests to the users.

## **Problem Statement:**

There are many problems found in the today's RTO system. The problems created in the existing system enforced us to develop the new system which minimize the problem of the existing system. The problem in RTO system is that RTO officials have to maintain records physically and it requires a lot of paper work and manual efforts.

## **Aims & Objectives**

The online RTO Management Web Application is intended to provide complete solution for Citizens, RTO Staff through a single Gateway using internet. It will enable Citizens and RTO staff to access information, modify information online without visiting the RTO office physically.

RTO (Regional Transport Office) system is an application that is designed for the RTO for the process of registration of vehicles and issuing Driving license, Learning License, Owner Ship Transfer based web Application. RTO Information System is an online information source developed for Road Transport Authority to facilitate the users in applying for various licenses and registrations.

## **Product Scope**

This System allows Citizens to view, modify their information by adding or removing their information from the previous record. This system allows Citizens to apply for Driver license, Learning License, Vehicle registration, Vehicle permit, Transfer ownership. This system allows RTO Staff to Control Driving license, Learning license, Vehicle registration, Ownership transfer, Vehicle permit, Payments, Complaints.

## 2. Overall Description

### **Proposed Methodology:**

The objective of RTO management system is to provide an online web-based solution for various RTO purposes. In this application all data will be available such as driving license, learning license, vehicle registration, vehicle permit, vehicle puc, vehicle ownership transfer are present in main server. It is Easy to use. In future it helps users and RTO staff to organize and access information about all aspect. This website provides a way for users and RTO staff to communicate to each other, this will solve all drawbacks of manual process and paper works, increase the efficiency and speed up all works to be completed. At RTO managements side a person can view and modify the data of users and their request for all the aspects. Every users and staff will provide with unique login id and password. All the data will be at least once validated from the RTO database. Hence this process also helps in maintaining consistency and integrity. The users and RTO staff can readily store and retrieve the data by clicking on the functionality given. Thus, the users is provided the convenience to interact with the system to readily and access the resources through internet or intranet.

### **Benefits of RTO Management System :-**

1. The data of all the licensed holder will be stored in the main server.
2. This will reduce cost and space of the department.
3. No, need for doing heavy file work, as all the records will be stored in digital format.
4. Fake license holder will be caught easily.
5. Officers can easily charge on one click instead of writing on paper.
6. Data of driving license, learning license, vehicle permit, vehicle registration, vehicle ownership transfer, vehicle puc are present on main server.

## Operating Environment:

- **Hardware Requirement:**

<b>RAM</b>	4 GB
<b>Hard Disk</b>	500 GB
<b>Processor</b>	Quad Core

- **Software Requirement:**

- ❖ **Client Side:**

<b>Web Browser</b>	Google Chrome or any compatible browser
<b>Operating System</b>	Windows or any equivalent OS

- ❖ **Server Side:**

<b>Web Server</b>	TOMCAT
<b>Server-Side Language</b>	React
<b>Database</b>	MySQL
<b>Web Browser</b>	Google Chrome or any compatible browser
<b>Operating System</b>	Windows or any equivalent OS

### **Design and Implementation Constraints:**

- This application use JavaScript, Reactjs as main web technologies.
- This application use MySQL Database.
- This application use Spring Boot technology in Backend
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- SMTP protocol is used for Email communication.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since RTO Management System is a web-based application, internet connection must be established.
- The RTO Management System will be used on PCs and will function via internet or intranet in any web browser

### **3. Requirements Specification**

#### **External Interface Requirements:**

##### **User Interfaces:**

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

##### **Hardware Interfaces:**

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.

This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

##### **Application Interfaces:**

###### **Web Browser:**

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

### **Functional Requirements:**

- Any anonymous User will be able to register and able to view about us. Registered citizens will be able to view, modify their details and able to see the status of the request which is under process.
- RTO staff will be able to accept, reject the request of citizens.
- RTO staff will be able modify details of citizens.
- RTO staff will be able to view and manage different tables i.e. Driving license table, Learning license table, Complaint table, RC table, Citizens details table, Payment table, Vehicle transfer table, PUC table.
- Dashboard will provide information using graph, tables, key performance indicators as well Grid data prestation.
- System and Technical team (IT Operations team) will be able to monitor system operations by monitoring logs maintained.

### **Non-Functional Requirement:**

#### **Security:**

- Registered Citizens will be allowed to access their personal details.
- Each RTO Staff will be able to access system through **Authentication** process.
- System will provide access to the content, operations using Role based security i.e. **Authorization**
- Using Secure Socket Layer (SSL) in all transactions which will be performed by RTO staff. It would protect confidential information shared by system to RTO Staff.



- System will automatically log of all RTO Staff after some time due to inactiveness.
- System will block operations for inactive RTO Staff and would redirect for authentication.
- System will internally maintain secure communication channel between Servers (Web Servers, App Servers, Database Server)
- Sensitive data will be always encrypted across communication.
- Using proper firewall to protect servers from outside fishing, vulnerable attacks.

**Reliability:**

- The system will backup data on regular basis and recover in short time duration to keep system operational.
- Continuous updates are maintained, continuous administration is done to keep system operational.
- During peak hours system will maintain same user experience by managing load balancing.

**Availability:**

- Uptime: 24\* 7 available.

**Maintainability:**

- A Commercial database software will be used to maintain System data Persistence.
- A readymade Web Server will be installed to host online RTO (Web Site) to management server capabilities.
- IT operations team will easily monitor and configure System using Administrative tools provided by Servers.
- Separate environment will be maintained for system for isolation in production, testing, and development.

**Portability:**

- PDA: Portable Device Application
- System will provide portable User Interface (HTML, CSS, JS, React) through which users will be able to access online RTO Management System.
- System can be deployed to single server, multiple server, to any OS, Cloud (Azure or AWS or GCP)

**Accessibility:**

- Only registered Citizens will be able to access their details after authentication.
- RTO staff team can reject or approve different requests from citizens.
- RTO staff team will be able to view daily, weekly, monthly and annual reports of requests of citizens through customized dashboard.
- Citizens can see their status of requests.

**Durability:**

- System will retain citizens details for 15 minutes even though citizens loose internet connection and join again or inactiveness after that it will be redirected to authentication.
- System will implement backup and recovery for retaining RTO's data, operation data over time.

**Efficiency:**

- On heavy traffic, System will be able to manage all transactions with isolation with same response time.

**Modularity:**

- System will be designed and developed using reusable, independent or dependent scenarios in the form of modules.
- These modules will be loosely coupled and highly cohesive.

- System will contain CRM, Driving license module, Payment module, Vehicle Registration module, Membership and Roles management module.

**Scalability:**

- System will be able to provide consistent user experience to RTO staff as well as citizens irrespective of load.

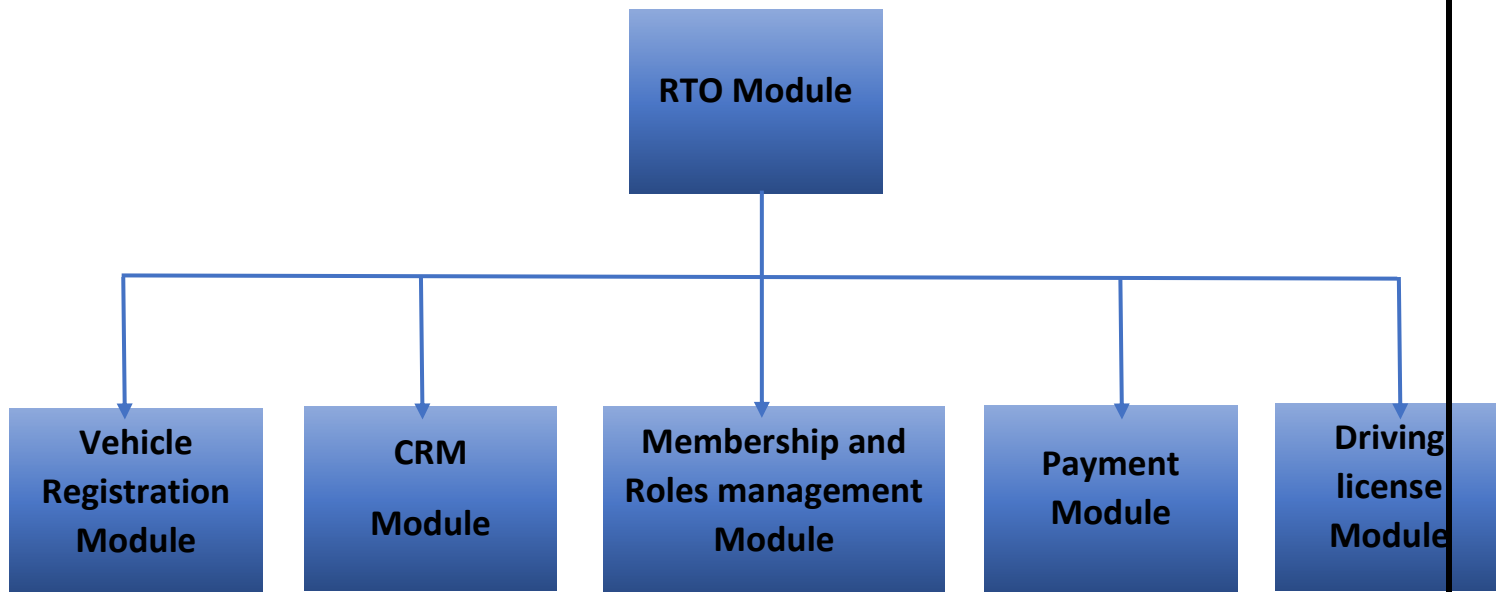
**Safety:**

- Online RTO management portal will be secure from malicious attack, fishing.
- Online RTO management portal functionalities are protected from outside with proper firewall configuration.
- Online RTO management portal will be always kept updated with latest antivirus software.
- RTO's data will be backed up periodically to ensure safety of data using incremental back up strategy.
- Role based security will be applied for Application data and operations accessibility.

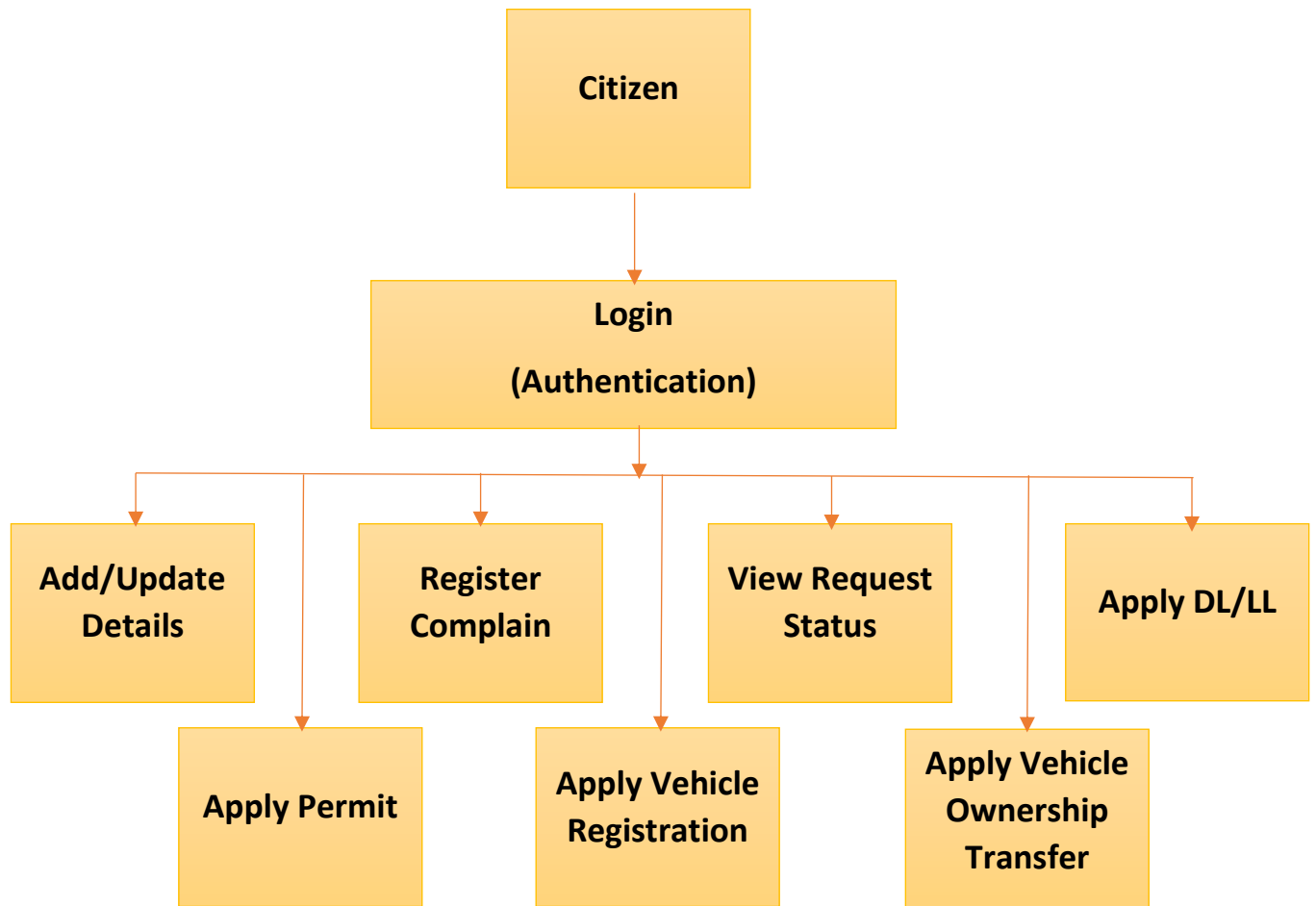
## 4. System Diagram

### Flow Diagram:

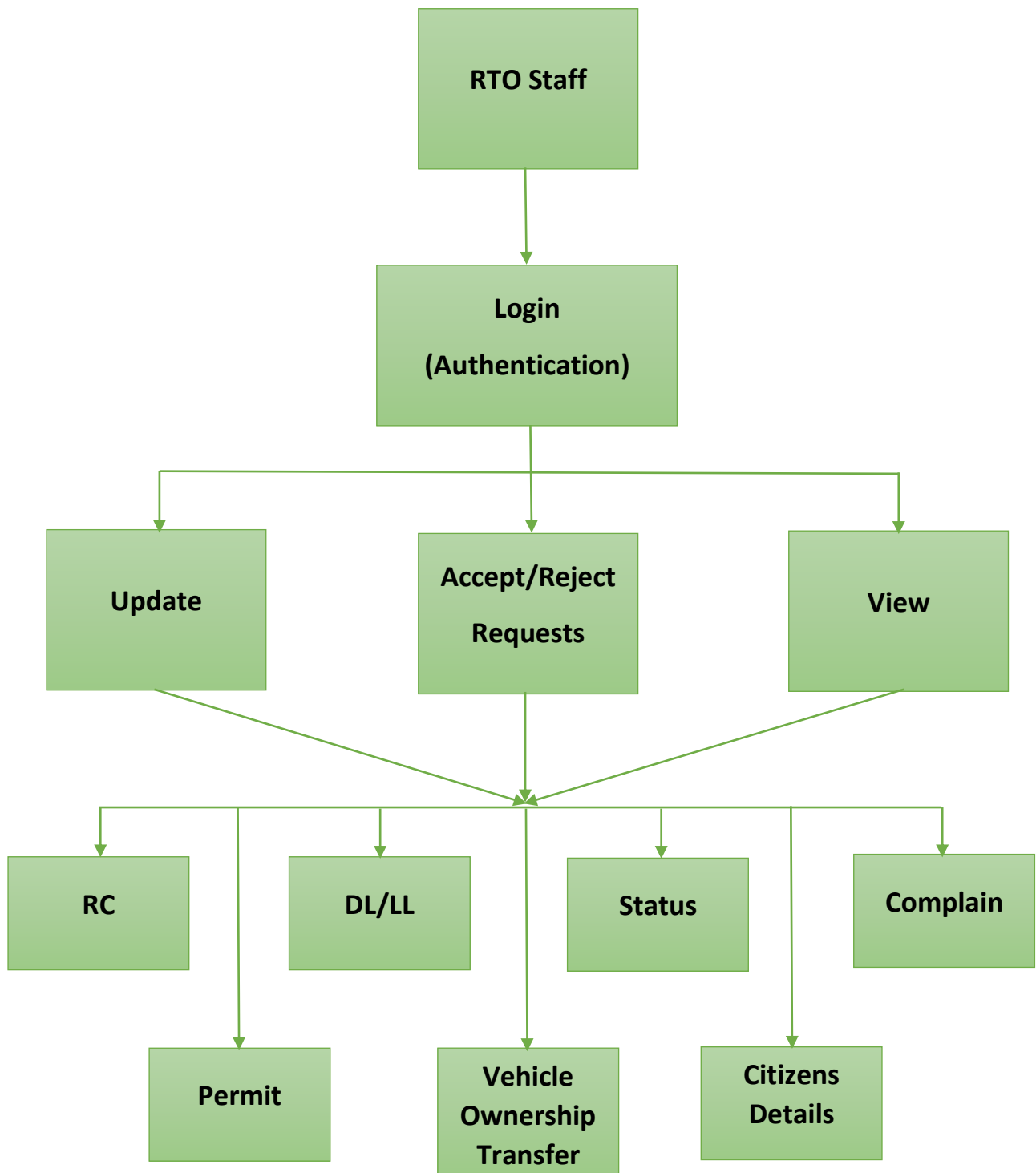
#### 1. RTO Modules Flow Diagram:



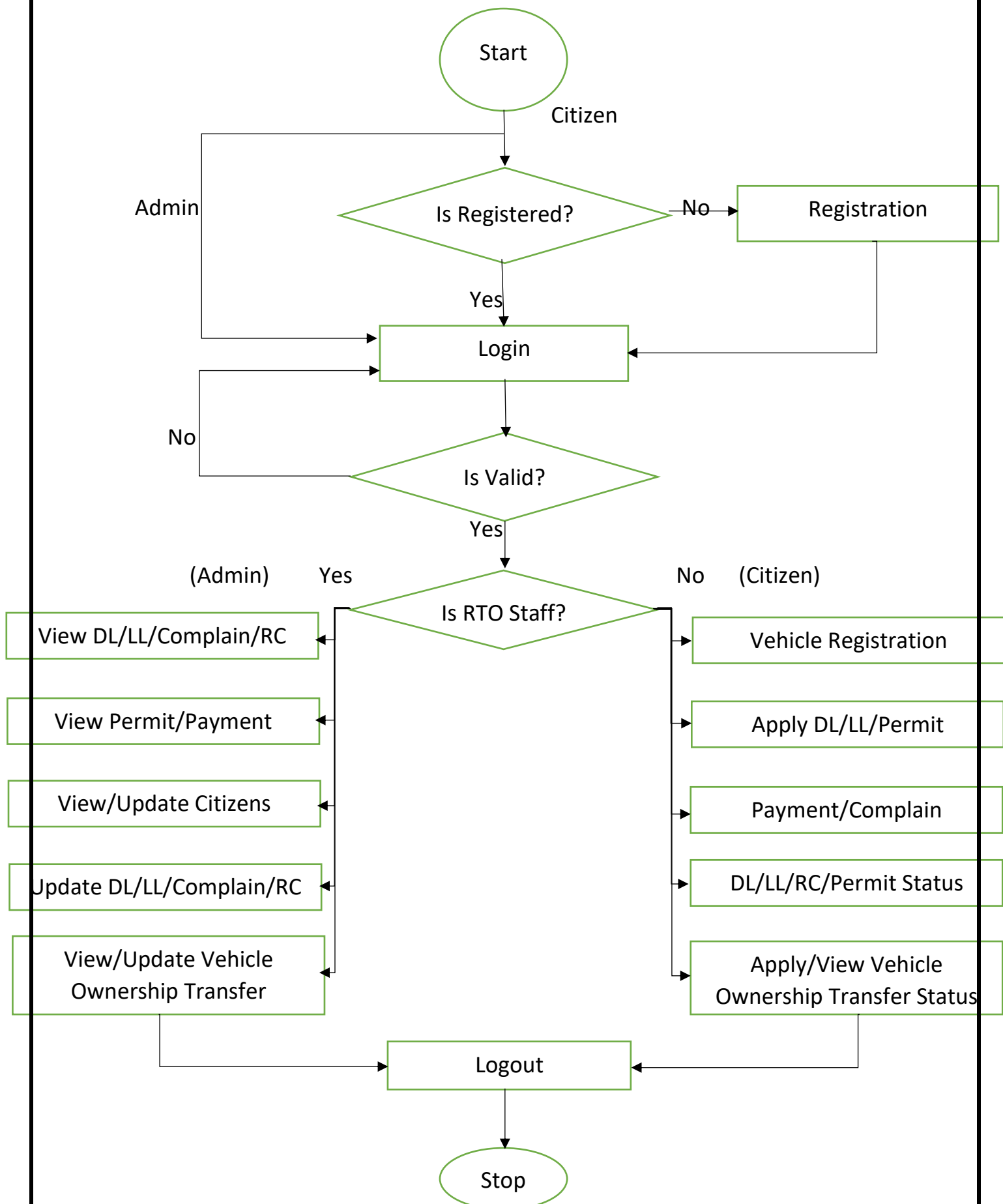
## 2. Citizen Flow Diagram:



### 3. RTO Staff Flow Diagram:

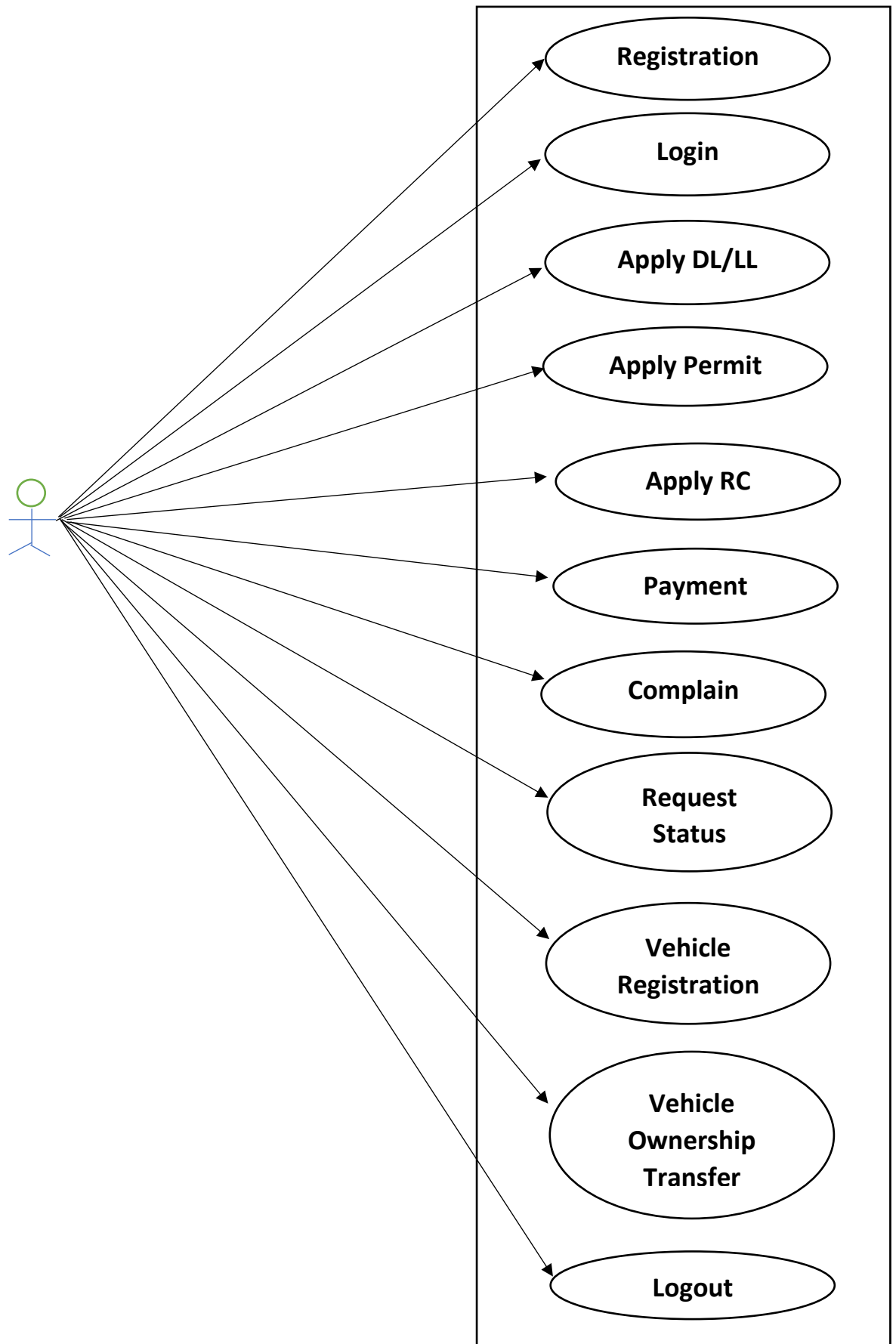


#### 4. System Flow Diagram:



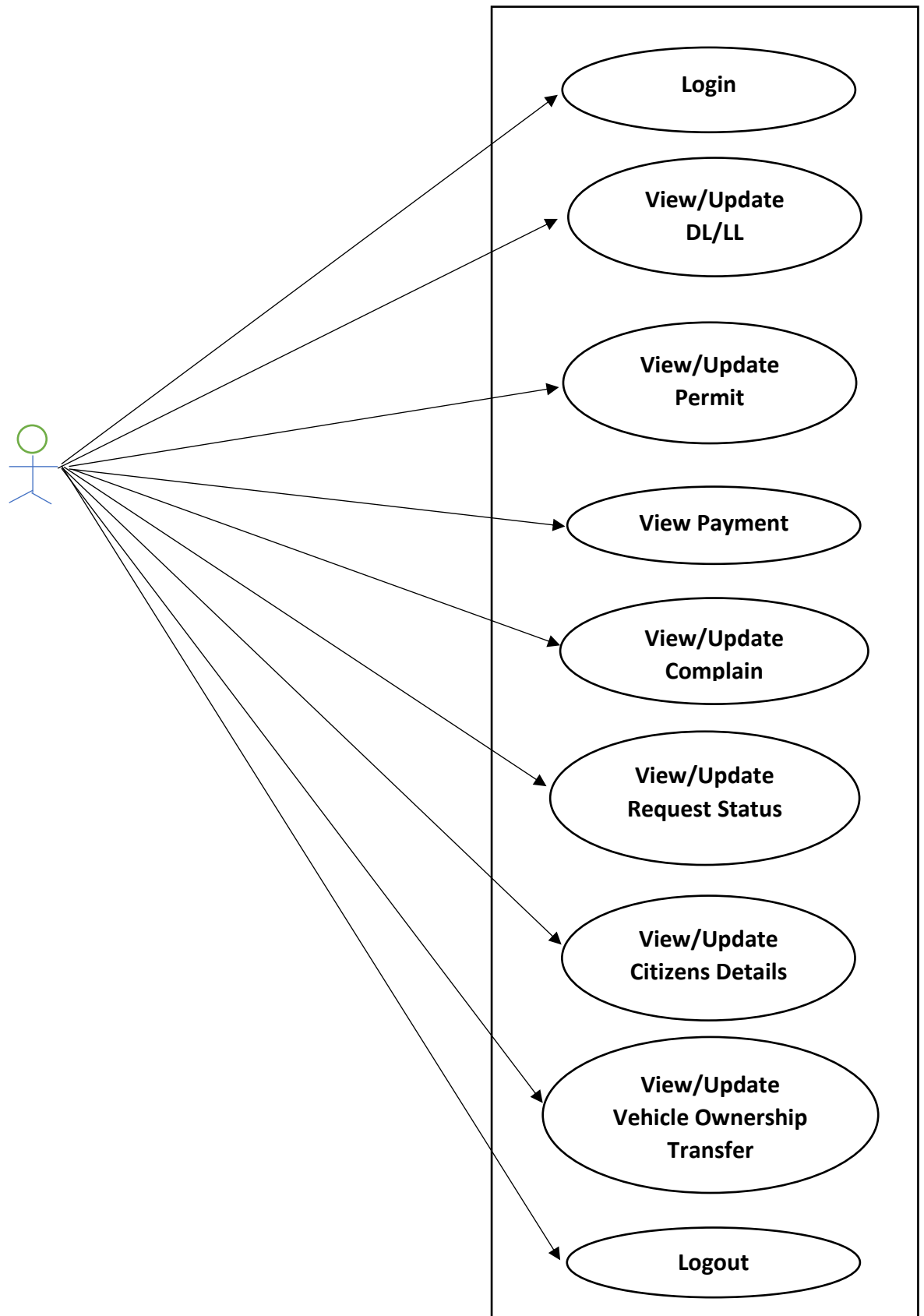
## Use Case Diagram:

### 1. Use case diagram for Citizen (User)



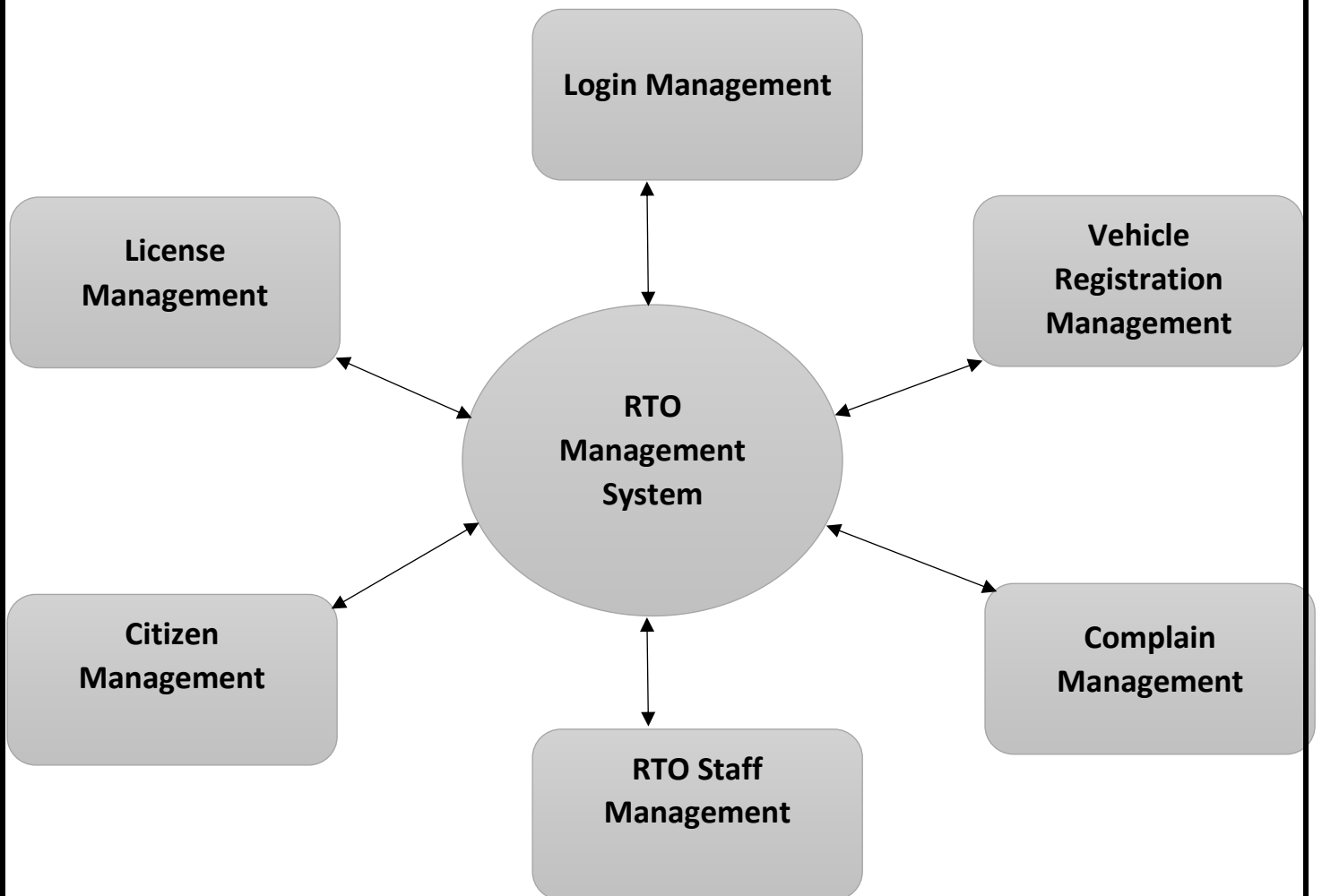


## 2. Use case diagram for RTO Staff

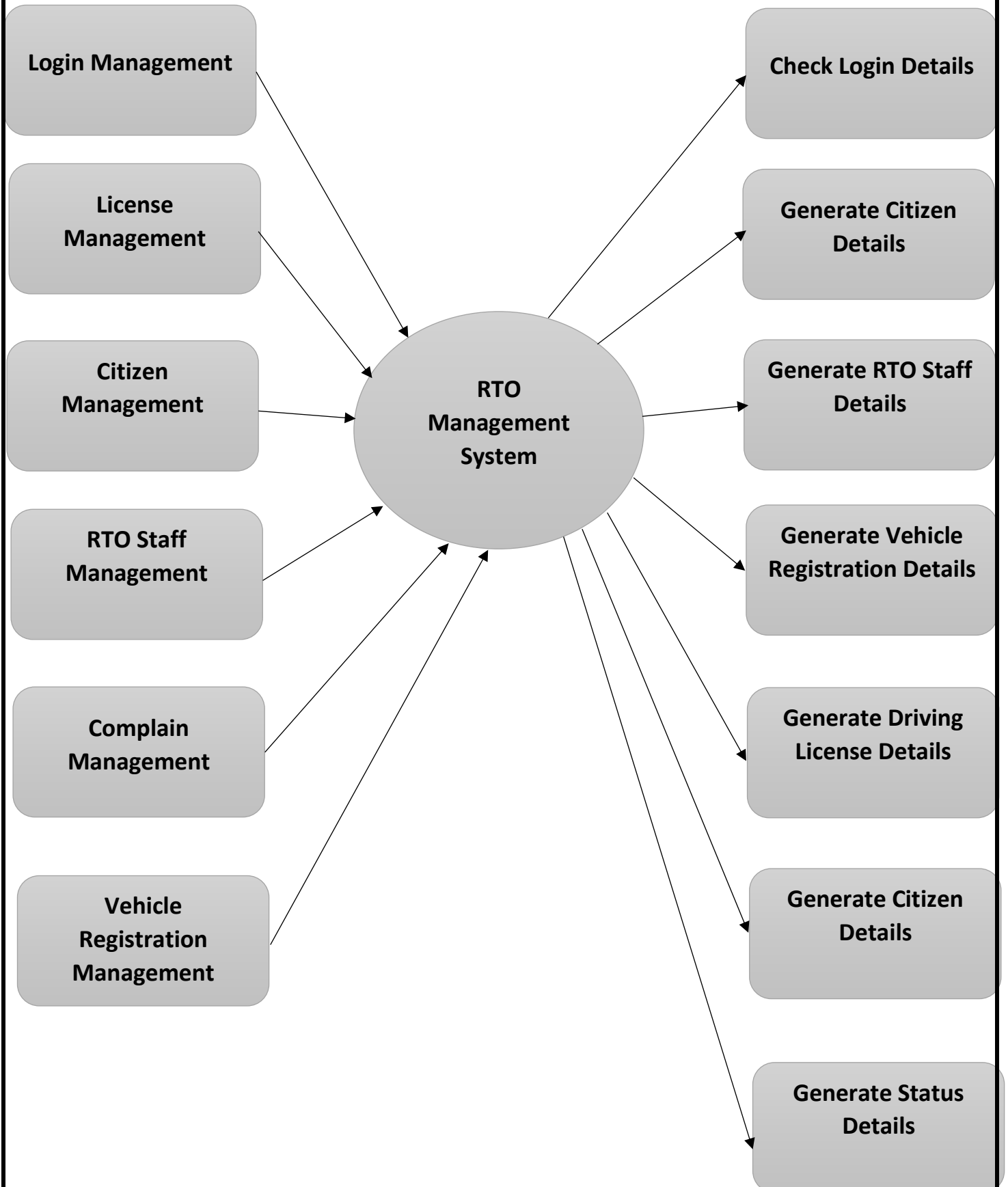


**Data Flow Diagram:**

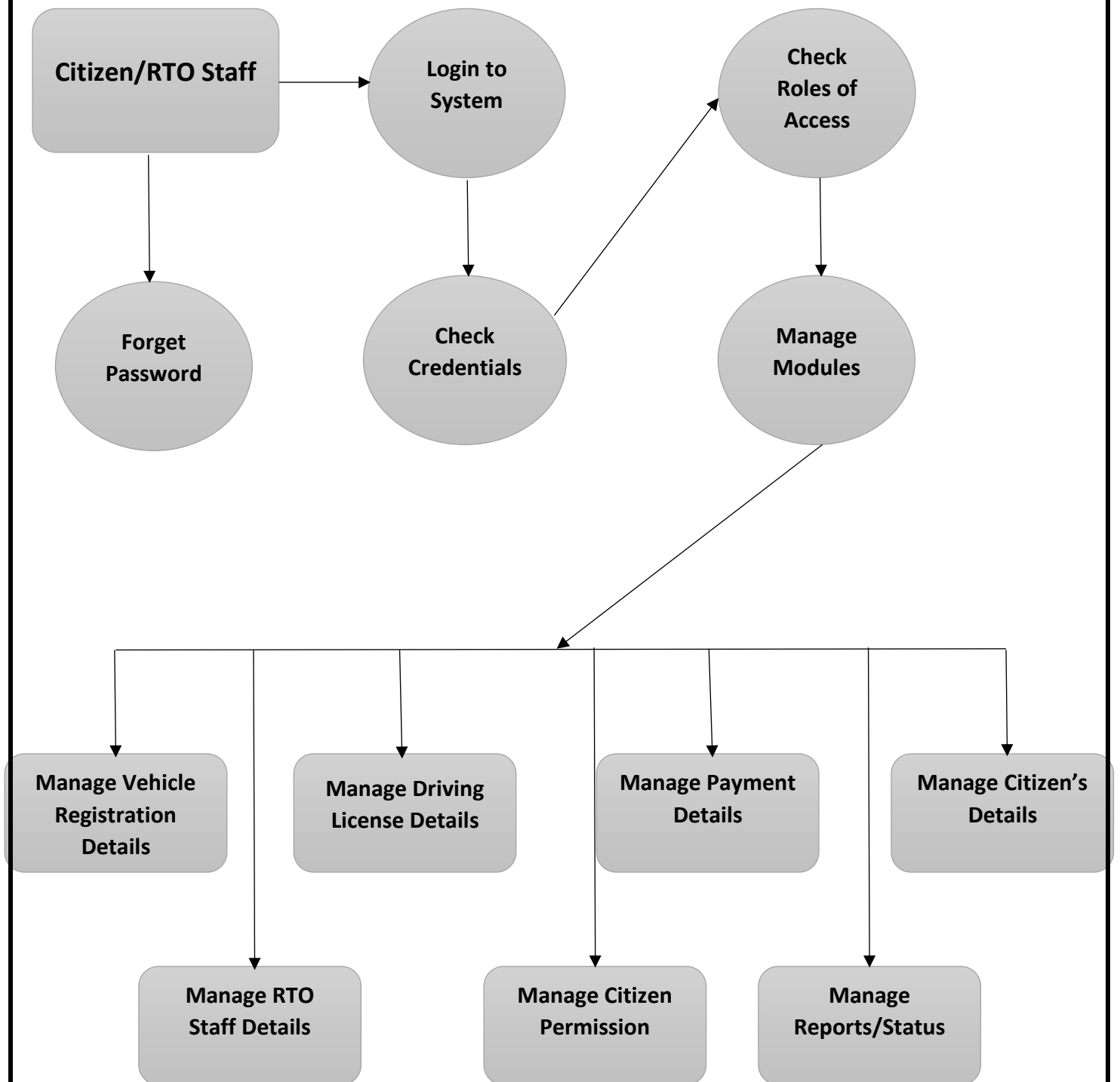
- **Zero Level DFD:**



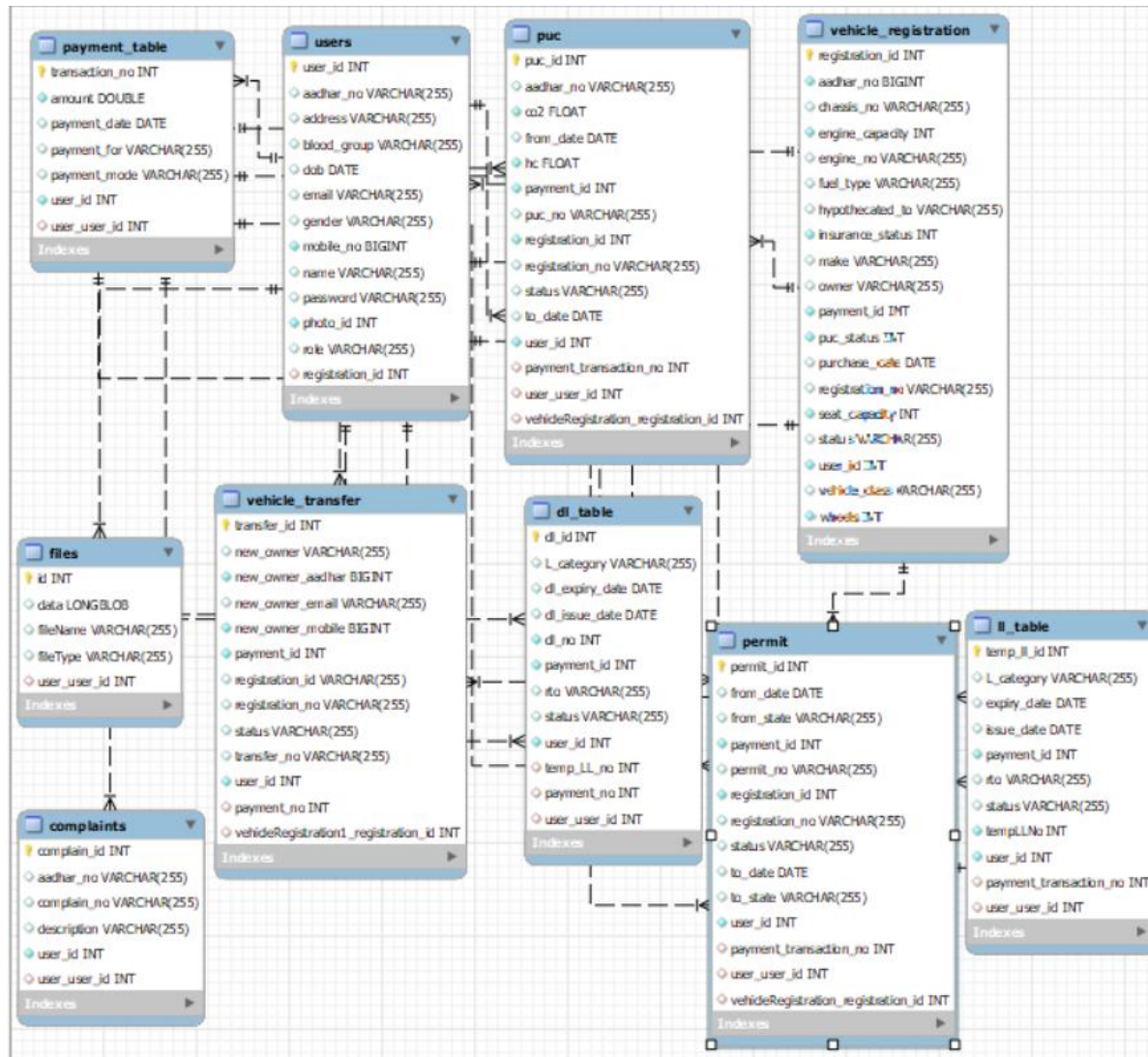
- **First Level DFD:**



- **Second Level DFD:**



## E-R Diagram:



## 5. Table Structure

- Citizen/RTO Staff (users):

<b>Table Name</b>	users
<b>Description</b>	This table contains details of Citizens
<b>Primary Key</b>	id
<b>Foreign Key</b>	registration_id

S No.	Field Name	Data type	Constraint	Description
1	user_id	int	Primary key	It stores Citizen's id
2	aadhar_no	varchar	Unique	It stores Citizen's aadhar number
3	Name	varchar	Not null	It stores Citizen's name
4	address	varchar	Not null	It stores Citizen's address
5	gender	varchar	Not null	It stores Citizen's gender
6	Dob	date	Not null	It stores Citizen's date of birth
7	blood_group	varchar	Not null	It stores Citizen's blood group
8	mobile_no	long	Not null	It stores Citizen's mobile number
9	email	varchar	Not null	It stores Citizen's email
10	password	varchar	Not null	It stores Citizen's password
11	registration_id	int	Not null	It stores Registration details
12	role	varchar	Not null	It stores specific roles
13	photo_id	int	Not null	It stores photo

- **Vehicle Registration:**

<b>Table Name</b>	vehicle_registration
<b>Description</b>	This table contains details of vehicle registrations
<b>Primary Key</b>	registration_id
<b>Foreign Key</b>	registration_id

S No.	Field Name	Data type	Constraint	Description
1	registration_id	int	Primary key	It stores vehicle registration id
2	registration_no	varchar	Not null	It stores vehicle registration no
3	owner	varchar	Not null	It stores vehicle owner name
4	make	varchar	Not null	It stores vehicle make detail
5	chassis_no	varchar	Not null	It stores vehicle chassis no
6	purchase_date	date	Not null	It stores vehicle purchase date
7	vehicle_class	varchar	Not null	It stores vehicle class detail
8	fuel_type	long	Not null	It stores vehicle fuel type
9	engine_capacity	int	Not null	It stores vehicle engine capacity detail
10	engine_no	varchar	Not null	It stores vehicle engine no
11	insurance	int	Not null	It stores vehicle insurance detail
12	wheels	int	Not null	It stores vehicle wheels detail
13	payment_id	int	Not null	It stores vehicle payment id
14	status	varchar	Not null	It stores vehicle status detail

- **Vehicle Transfer**

<b>Table Name</b>	vehicle_transfer
<b>Description</b>	This table contains details of vehicle ownership transfer
<b>Primary Key</b>	transfer_id
<b>Foreign Key</b>	-

S No.	Field Name	Data type	Constraint	Description
1	transfer_id	int	Primary key	It stores vehicle transfer id
2	transfer_no	varchar	Not null	It stores vehicle transfer no
3	new_owner	varchar	Not null	It stores vehicle new owner name
4	new_owner_aadhar	long	Not null	It stores vehicle new owner aadhar
5	new_owner_email	varchar	Not null	It stores vehicle new owner email
6	registration_id	int	Not null	It stores vehicle registration id
7	registration_no	varchar	Not null	It stores vehicle registration no
8	new_owner_mobile	long	Not null	It stores vehicle new owner mobile number
9	citizen_id	int	Not null	It stores citizen id
10	payment_id	Int	Not null	It stores payment id
11	status	varchar	Not null	It stores status detail



- **Payment**

<b>Table Name</b>	payment_table
<b>Description</b>	This table contains details of payment
<b>Primary Key</b>	transaction_no
<b>Foreign Key</b>	-

S No.	Field Name	Data type	Constraint	Description
1	transfer_no	int	Primary key	It stores vehicle transfer no
2	payment_for	varchar	Not null	It stores payment made for detail
3	payment_mode	varchar	Not null	It stores payment mode detail
4	amount	double	Not null	It stores amount detail
5	citizen_id	int	Not null	It stores citizen id
6	payment_date	date	Not null	It stores payment date

- **Complain**

<b>Table Name</b>	complaints
<b>Description</b>	This table contains details of complain posted by citizens
<b>Primary Key</b>	complain_id
<b>Foreign Key</b>	-

S No.	Field Name	Data type	Constraint	Description
1	complain_id	int	Primary key	It stores complain id
2	complain_no	varchar	Not null	It stores complain no
3	description	varchar	Not null	It stores description of complaint
4	citizen_id	int	Not null	It stores citizen id

- **Driving License**

<b>Table Name</b>	dl_table
<b>Description</b>	This table contains details of Driving License
<b>Primary Key</b>	dl_id
<b>Foreign Key</b>	-

S No.	Field Name	Data type	Constraint	Description
1	dl_id	int	Primary key	It stores driving license id
2	dl_no	int	Not null	It stores driving license no
3	payment_id	int	Not null	It stores payment id
4	status	varchar	Not null	It stores driving license status
5	citizen_id	int	Not null	It stores citizen id
6	dl_issue_date	date	Not null	It stores driving license issue date
7	dl_expiry_date	date	Not null	It stores driving license expiry date
8	rto	varchar	Not null	It stores rto details
9	L_Category	Varchar	Not Null	It stores License category

- Learning License

<b>Table Name</b>	ll_table
<b>Description</b>	This table contains details of Learning License
<b>Primary Key</b>	temp_ll_id
<b>Foreign Key</b>	-

S No.	Field Name	Data type	Constraint	Description
1	temp_ll_id	int	Primary key	It stores learning license id
2	dl_no	int	Not null	It stores learning license no
3	payment_id	int	Not null	It stores payment id
4	status	varchar	Not null	It stores learning license status
5	citizen_id	int	Not null	It stores citizen id
6	issue_date	date	Not null	It stores learning license issue date
7	expiry_date	date	Not null	It stores driving license expiry date
8	rto	varchar	Not null	It stores rto details
9	L_category	Varchar	Not Null	It stores license category

- **Payment**

<b>Table Name</b>	payment_table
<b>Description</b>	This table contains details of payments
<b>Primary Key</b>	transaction_no
<b>Foreign Key</b>	-

<b>S No.</b>	<b>Field Name</b>	<b>Data type</b>	<b>Constraint</b>	<b>Description</b>
1	transaction_no	int	Primary key	It stores payment id
2	Amount	int	Not null	It stores amount
3	payment_date	Date	Not null	It stores payment date
4	Payment_for	varchar	Not null	It stores for which category payment is done
5	citizen_id	int	Not null	It stores citizen id
6	Payment_mode	varchar	Not null	It stores payment mode

- Permit

<b>Table Name</b>	permit
<b>Description</b>	This table contains details of vehicle permit
<b>Primary Key</b>	permit_id
<b>Foreign Key</b>	-

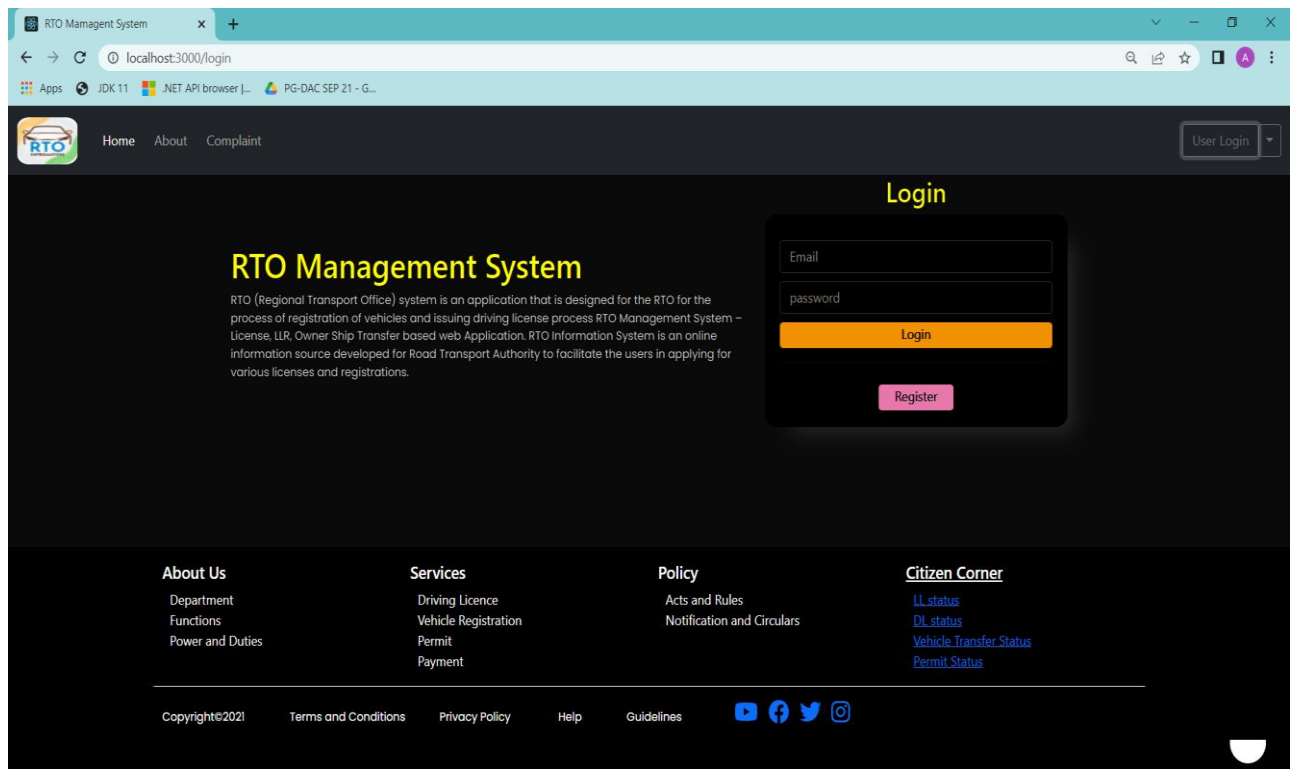
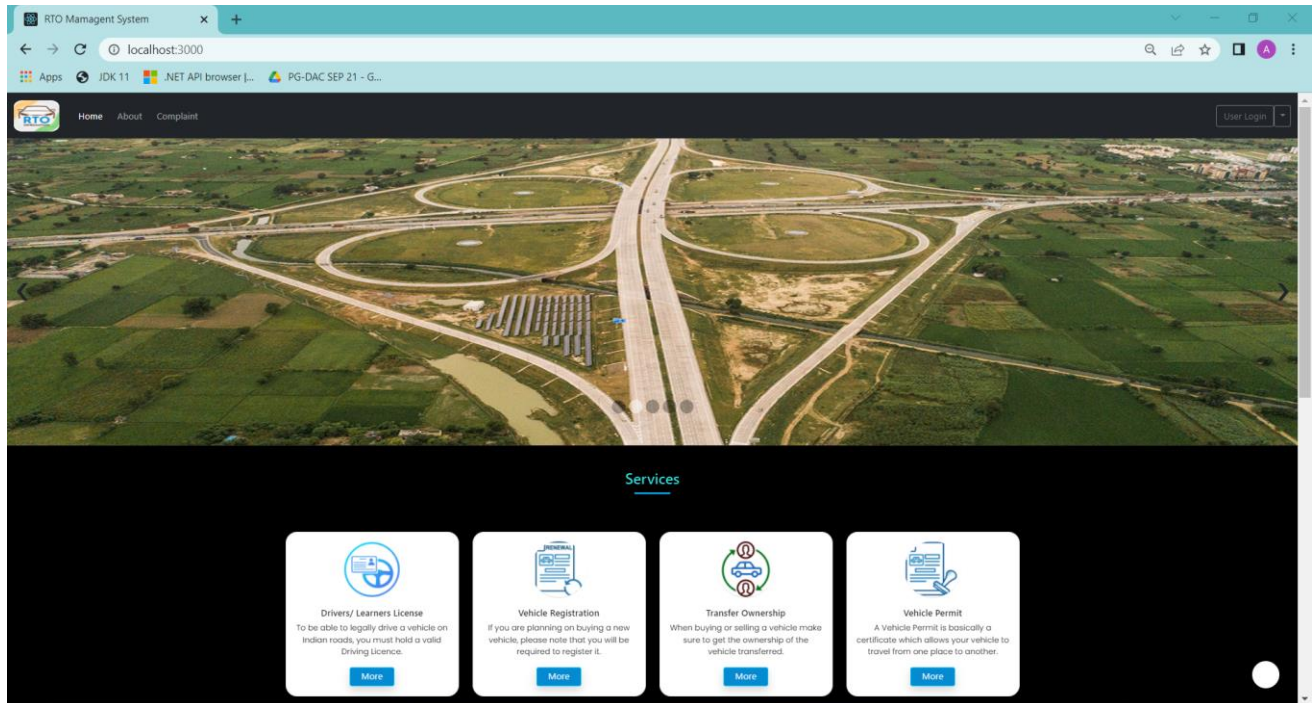
S No.	Field Name	Data type	Constraint	Description
1	permit_id	int	Primary key	It stores permitid
2	From_date	Date	Not null	It stores from date
3	From_state	Varchar	Not null	It stores from state
4	Payment_id	Int	Not null	It stores payment id
5	citizen_id	Int	Not null	It stores citizen id
6	Permit_no	Varchar	Not null	It stores permit no
7	Registration_id	Int	Not null	It stores registration id
8	Registration_no	Varchar	Not null	It stores registration no
9	status	Varchar	Not Null	It stores status
10	To_date	Date	Not Null	It stores to date
11	To_state	Varchar	Not Null	It stores to state
12	Payment_transaction_no	Int	Not Null	It stores payment transaction no

- Puc


<b>Table Name</b>	puc
<b>Description</b>	This table contains details of vehicle puc
<b>Primary Key</b>	puc_id
<b>Foreign Key</b>	-

S No.	Field Name	Data type	Constraint	Description
1	puc_id	int	Primary key	It stores puc id
2	Aadhar_no	varchar	Not null	It stores aadhar no
3	Co2	float	Not null	It stores from CO2 value
4	From_date	date	Not null	It stores from date
5	HC	float	Not null	It stores Hydrocarbon value
6	Payment_id	int	Not null	It stores payment id
7	Puc_no	varchar	Not null	It stores puc no
8	Registration_no	varchar	Not null	It stores registration no
9	Registration_id	int	Not Null	It stores registration id
10	To_date	Date	Not Null	It stores to date
11	status	Varchar	Not Null	It stores to status
12	Payment_transaction_no	Int	Not Null	It stores payment transaction no

## 6. Screenshots



RTO Magament System
localhost:3000/adminLogin


[Home](#)
[About](#)
[Complaint](#)

User Login

## Admin Login

Email

password

Login

Register

RTO (Regional Transport Office) system is an application that is designed for the RTO for the process of registration of vehicles and issuing driving license process RTO Management System – License, LLR, Owner Ship Transfer based web Application. RTO Information System is an online information source developed for Road Transport Authority to facilitate the users in applying for various licenses and registrations.

### About Us

- Department
- Functions
- Power and Duties

### Services





- Driving Licence
- Vehicle Registration
- Permit
- Payment

### Policy


- Acts and Rules
- Notification and Circulars

### Citizen Corner

- [LL status](#)
- [DL status](#)
- [Vehicle Transfer Status](#)
- [Permit Status](#)

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RTO Magament System
localhost:3000/register


[Home](#)
[About](#)
[Complaint](#)

User Login

### User Registration

Name

Enter name middle-name last-name

Aadhar Number

aadhar number

Date of Birth

dd-mm-yyyy

Address

address

Email

email

Mobile Number

mobile number

Gender

☐ Male
☐ Female

Role

☐ Admin
☐ User

Blood Group

blood group

Password

password

Register

### About Us

- Department
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- Power and Duties

### Services

- Driving Licence
- Vehicle Registration
- Permit
- Payment

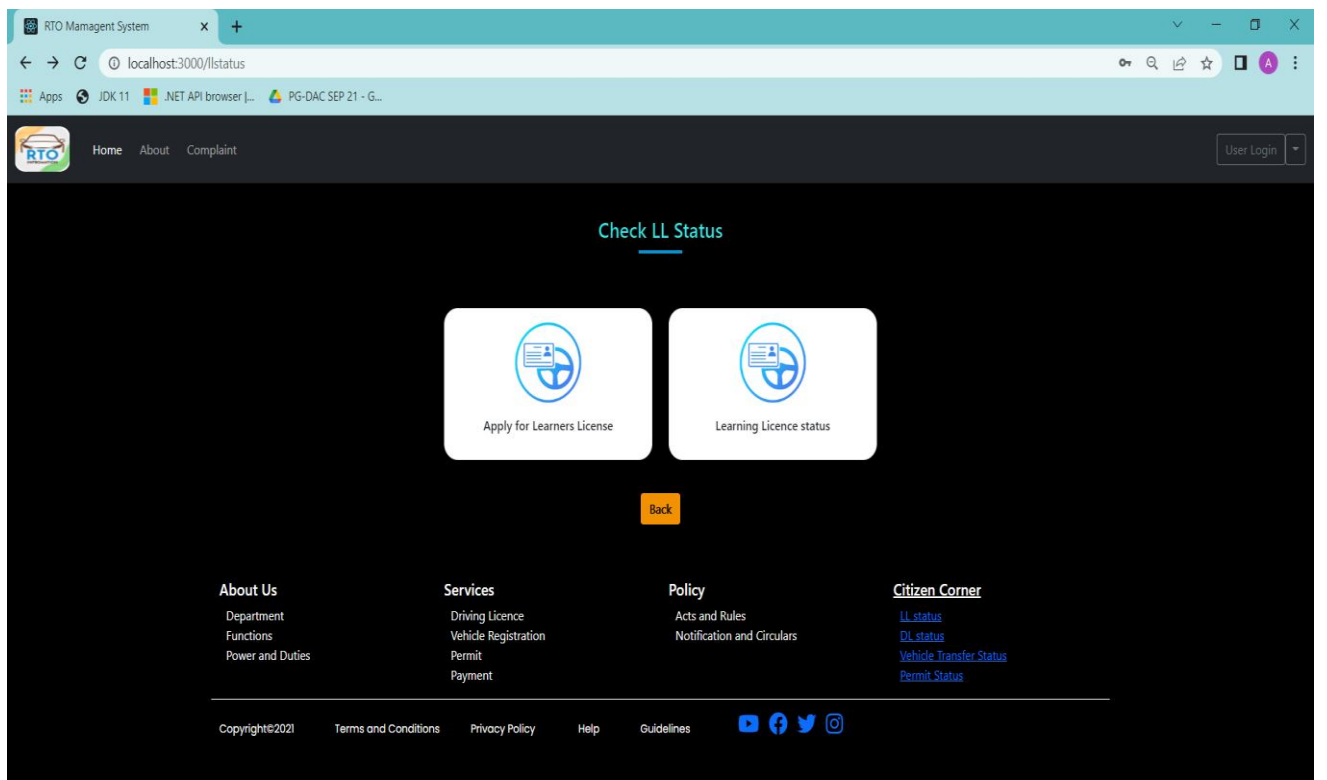
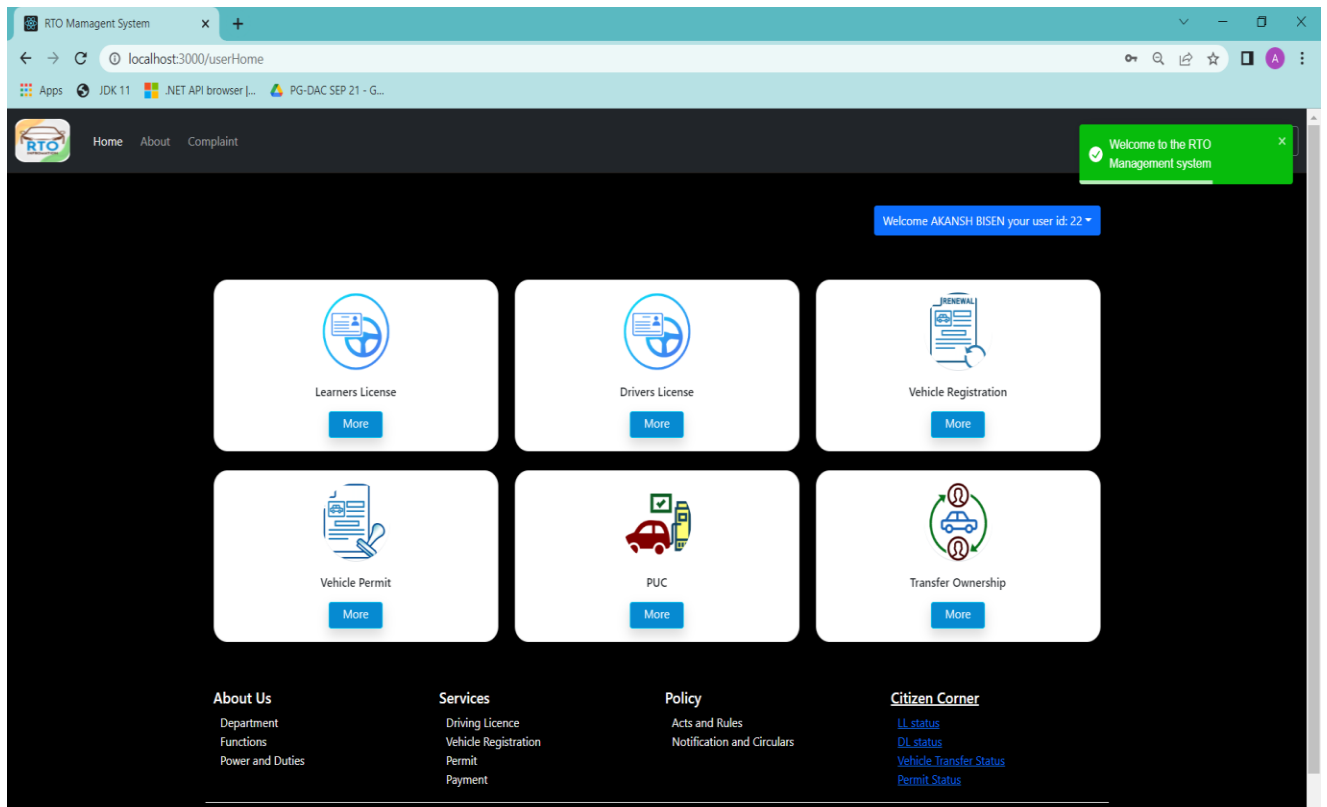
### Policy

- Acts and Rules
- Notification and Circulars

### Citizen Corner

- [LL status](#)
- [DL status](#)
- [Vehicle Transfer Status](#)
- [Permit Status](#)






RTO Managent System

localhost:3000/applyLL

AppsJDK 11.NET API browser [PG-DAC SEP 21 - G...

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User Login

### Learning Licence

User Id

22

Name

AKANSH BIEN

RTO

Passing RTO

Licence category

Learning

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Power and Duties

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[LL status](#)

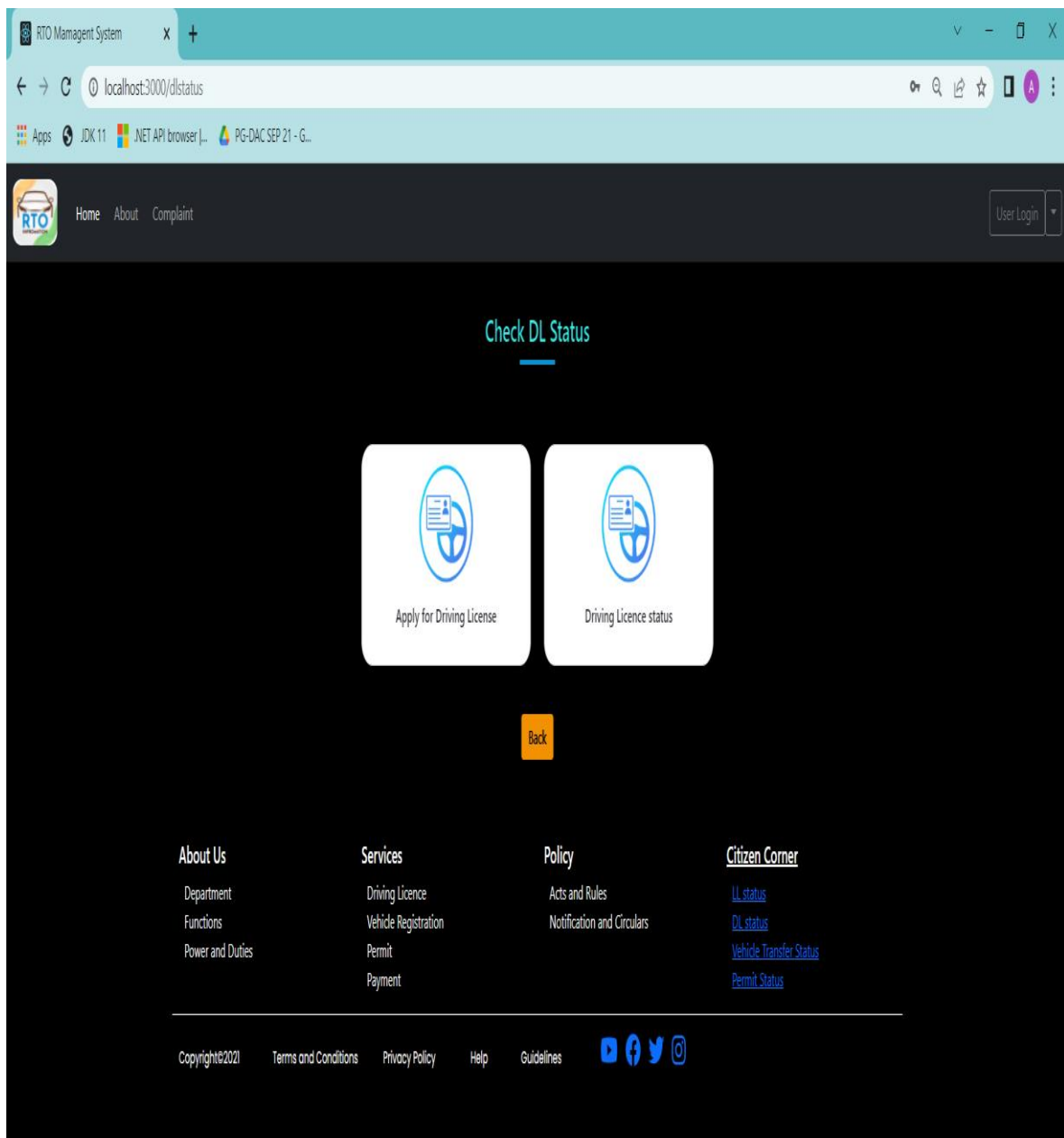
[DL status](#)

[Vehicle Transfer Status](#)

[Permit Status](#)

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RTO Managment System

localhost:3000/applyDL

AppsJDK 11.NET API browser [PG-DAC SEP 21 - G...

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User Login

Driving Licence

User Id

22

Name

AKANSH BISEN

RTO

Passing RTO

Licence category

Driving

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[Vehicle Transfer Status](#)

[Permit Status](#)





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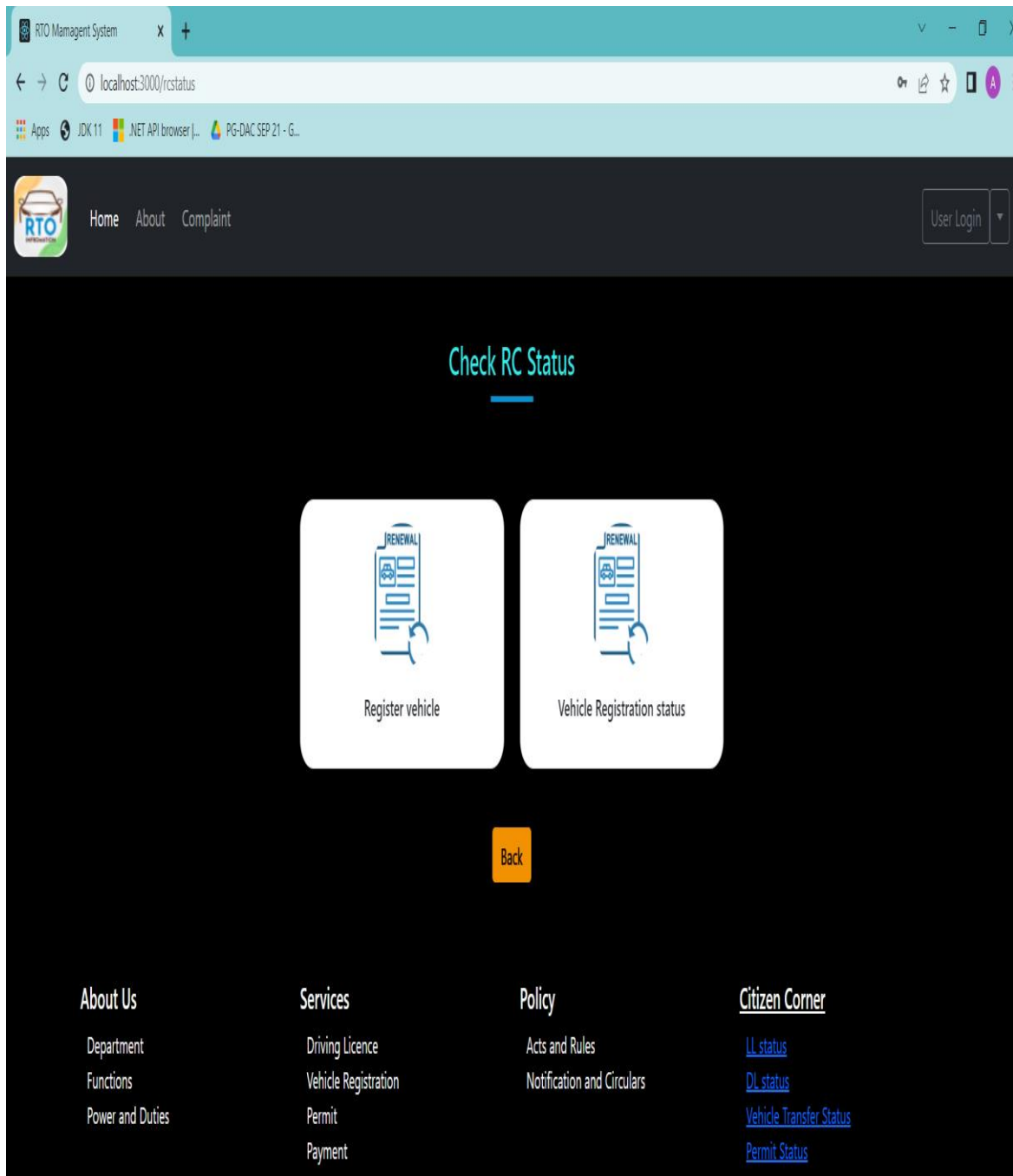
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RTO Managent System

localhost:3000/vehicleRegistration

AppsJDK 11.NET API browser [...].PG-DAC SEP 21 - G...

HomeAboutComplaint

User Login

Vehicle Registration

User Id

22

Owner

Enter name middle-name last-name

Aadhar No.

aadhar\_no number

Purchase Date

dd-mm-yyyy

Make

make

chassis\_no

chassis\_no

Vehicle class

vehicle\_class

Fuel type

fuel\_type

Engine No

engine\_no

Engine capacity

engine\_capacity

Insurance status

insurance\_status

Puc status

puc\_status

Hypothecated to

hypothecated\_to

wheels

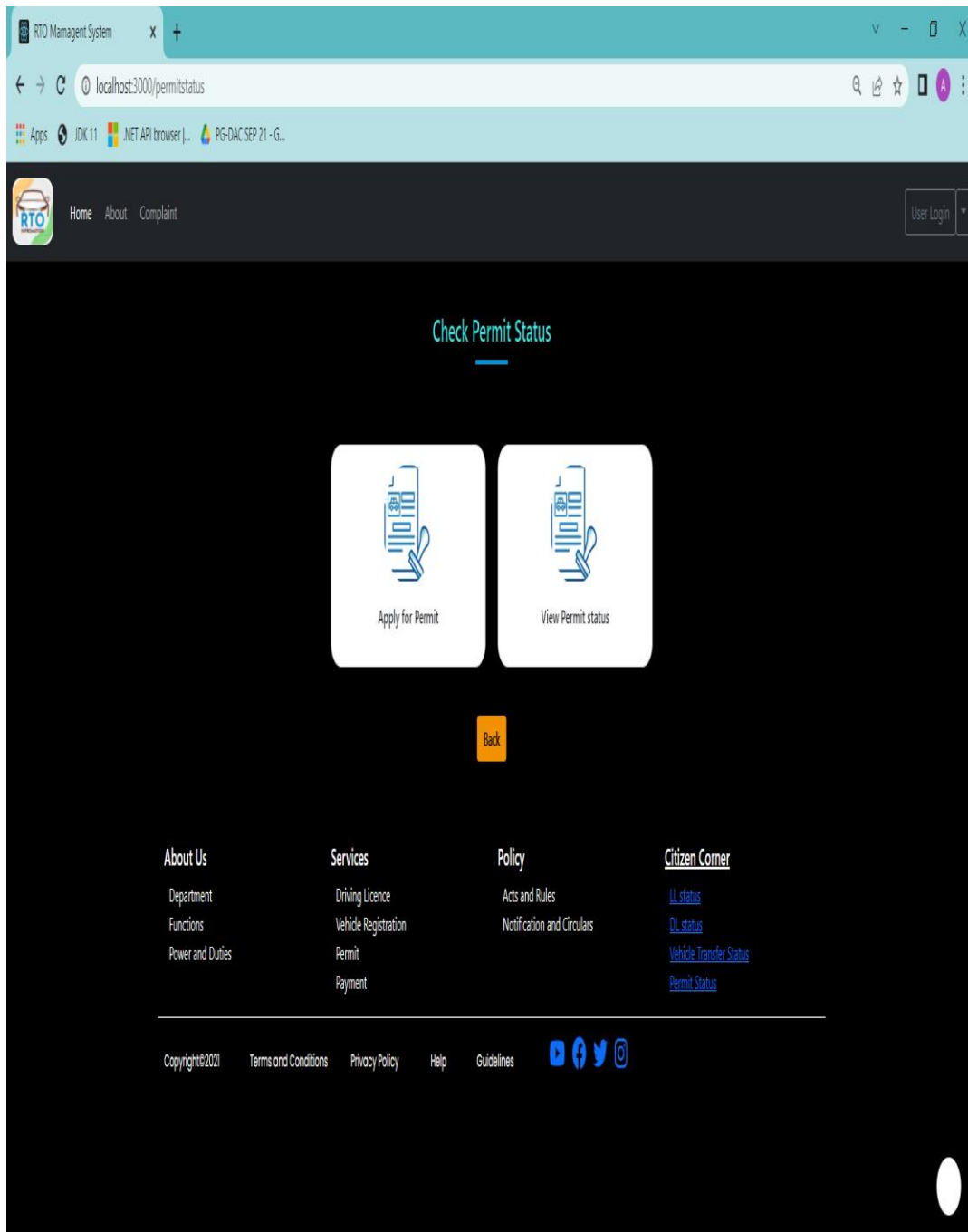
wheels

Seat capacity

seat\_capacity

Register


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RTO Managent System

localhost:3000/applyPermit

AppsJDK 11.NET API browser [...].PG-DAC SEP 21 - G...

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Vehicle Permit

User id

22

Registration No

Enter registration number

Registration id

Enter Registration Id

From Date

dd-mm-yyyy

To Date

dd-mm-yyyy

From state

From

To state

To

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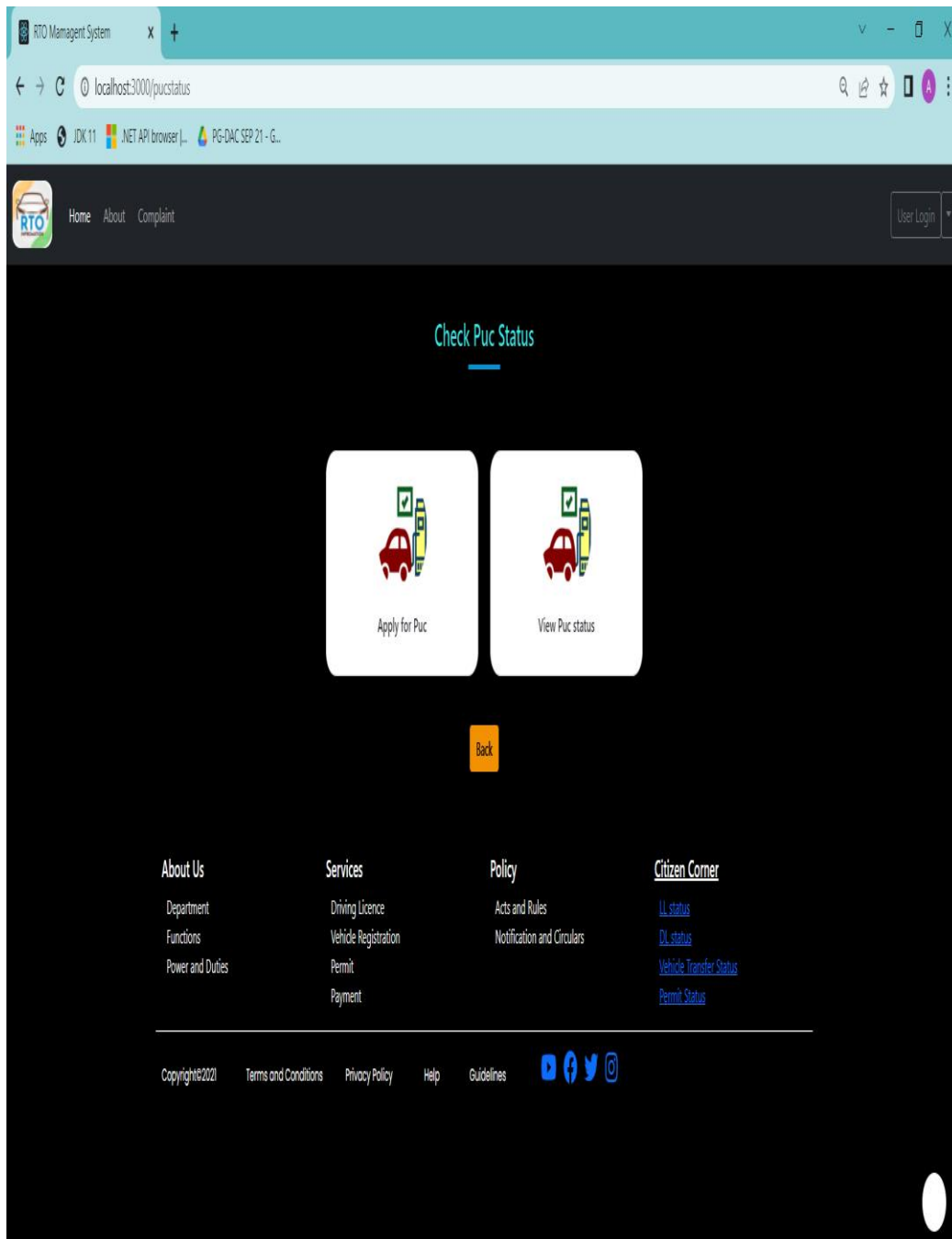
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localhost:3000/applyPuc

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Puc

User Id

22

Registration No

Enter registration number

Registration id

Enter Registration Id

From Date

dd-mm-yyyy

To Date

dd-mm-yyyy

CO<sub>2</sub>

Carbon Dioxide

HC

Hydrocarbon

Aadhar No

Aadhar no

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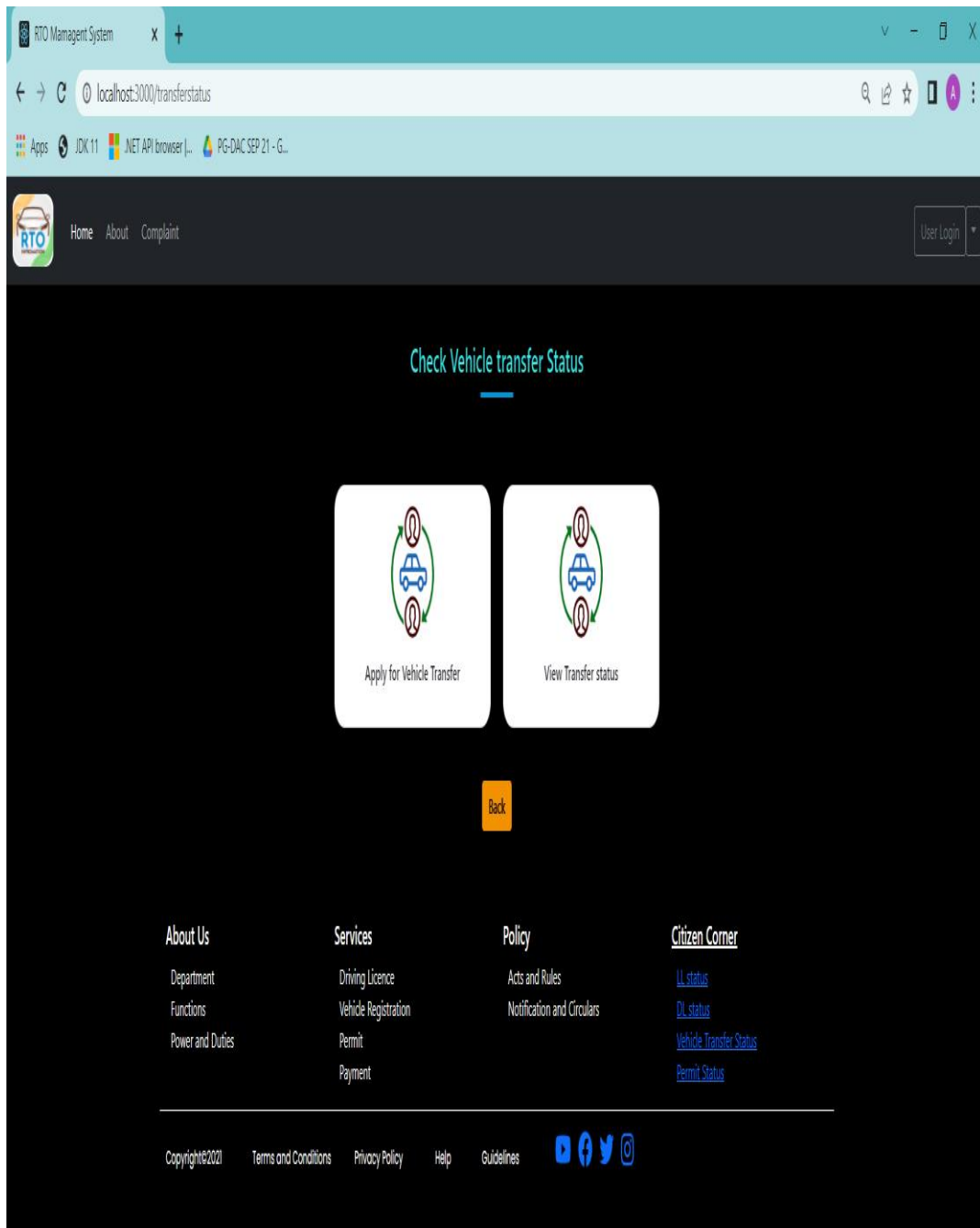
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localhost:3000/ownerShipTransfer

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### Vehicle Transfer

User Id

22

Registration No

Enter Registration Number

Registration id

Enter Registration Id

New Owner

Enter New Owner Name

New Owner Aadhar

Enter new owner aadhar

New Owner Email

Enter new owner email

New Owner mobile

Enter new owner mobile

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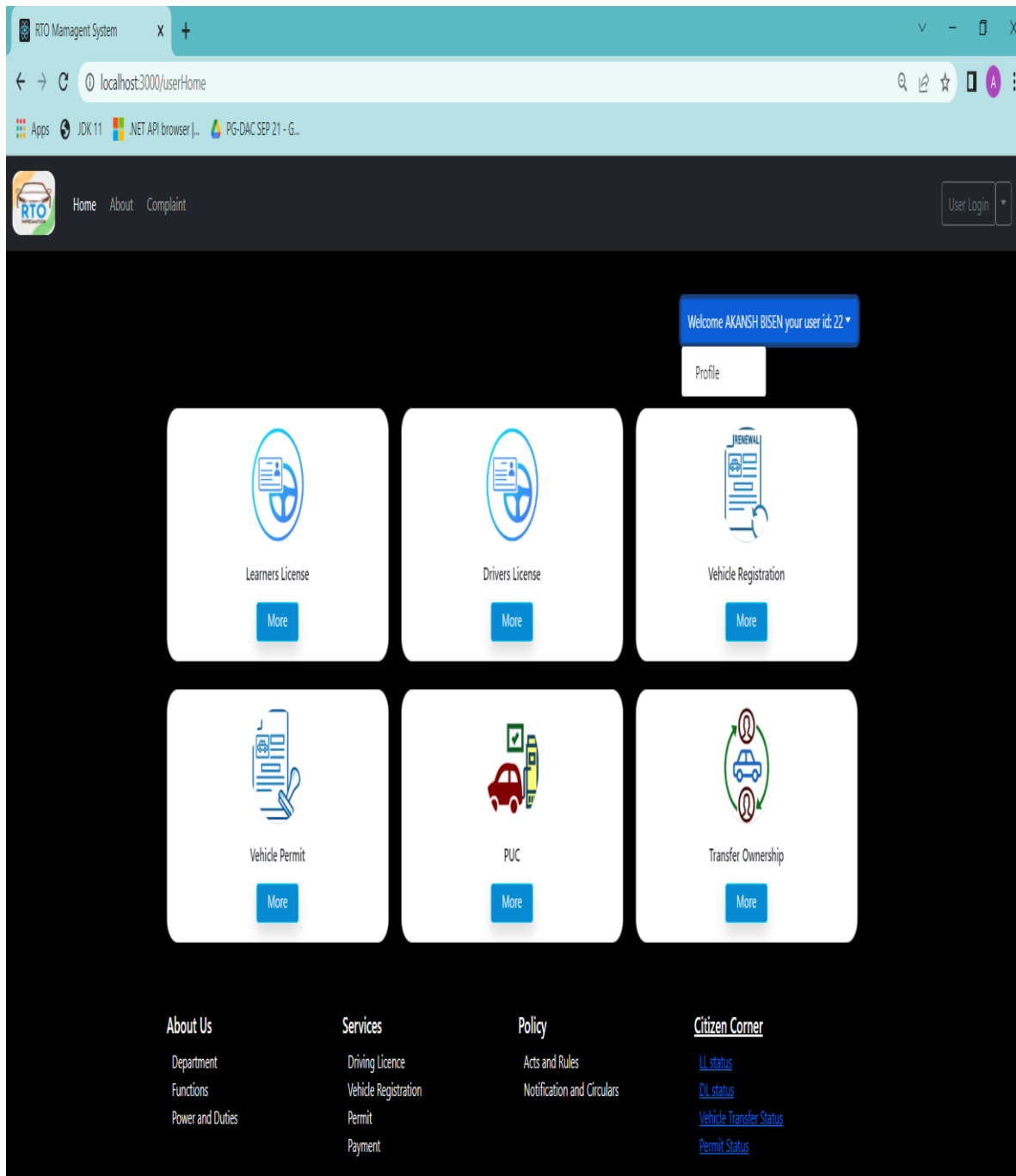
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localhost:3000/view-userProfile/22

AppsJDK 11.NET API browser [PG-DAC SEP 21 - G...

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User Details

NameAKANSH BISEN

Aadhar Number7788

Date of Birth26-01-1999

AddressBhilai

Emailbisen@gmail.com

mobile\_no Number1234567890

Gendermale

Roleuser

Blood GroupO+

Password\*\*\*\*\*

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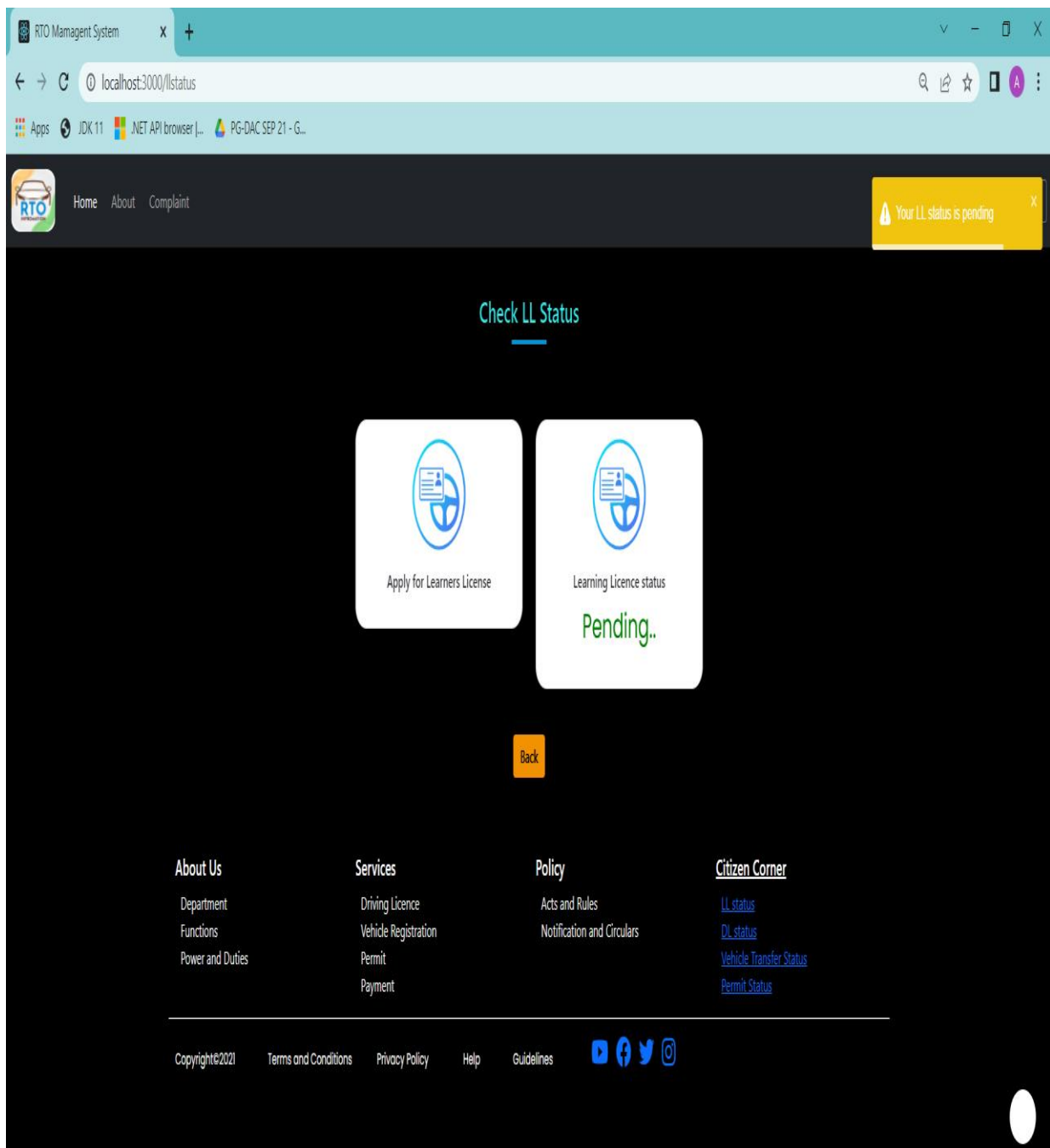
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localhost:3000/dlstatus

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✓


Congratulations Your Driving Licence is Approved

X

Check DL Status



Apply for Driving License



Driving Licence status

Approved

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localhost:3000/dldownload

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# Download Driving Licence



## DRIVER LICENSE

AKANSH BISEN

0+ 

Bhilai 

DOB 1999-01-26


ISS 2022-04-13


SEX male

EXP 2022-04-21

CLASS Driving

10





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localhost:3000/payment

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User Login

## Payment

User id

22

Payment for

Please select

Payment mode

Online

Amount

\$

Please select amount

Payment Date

dd-mm-yyyy

Apply

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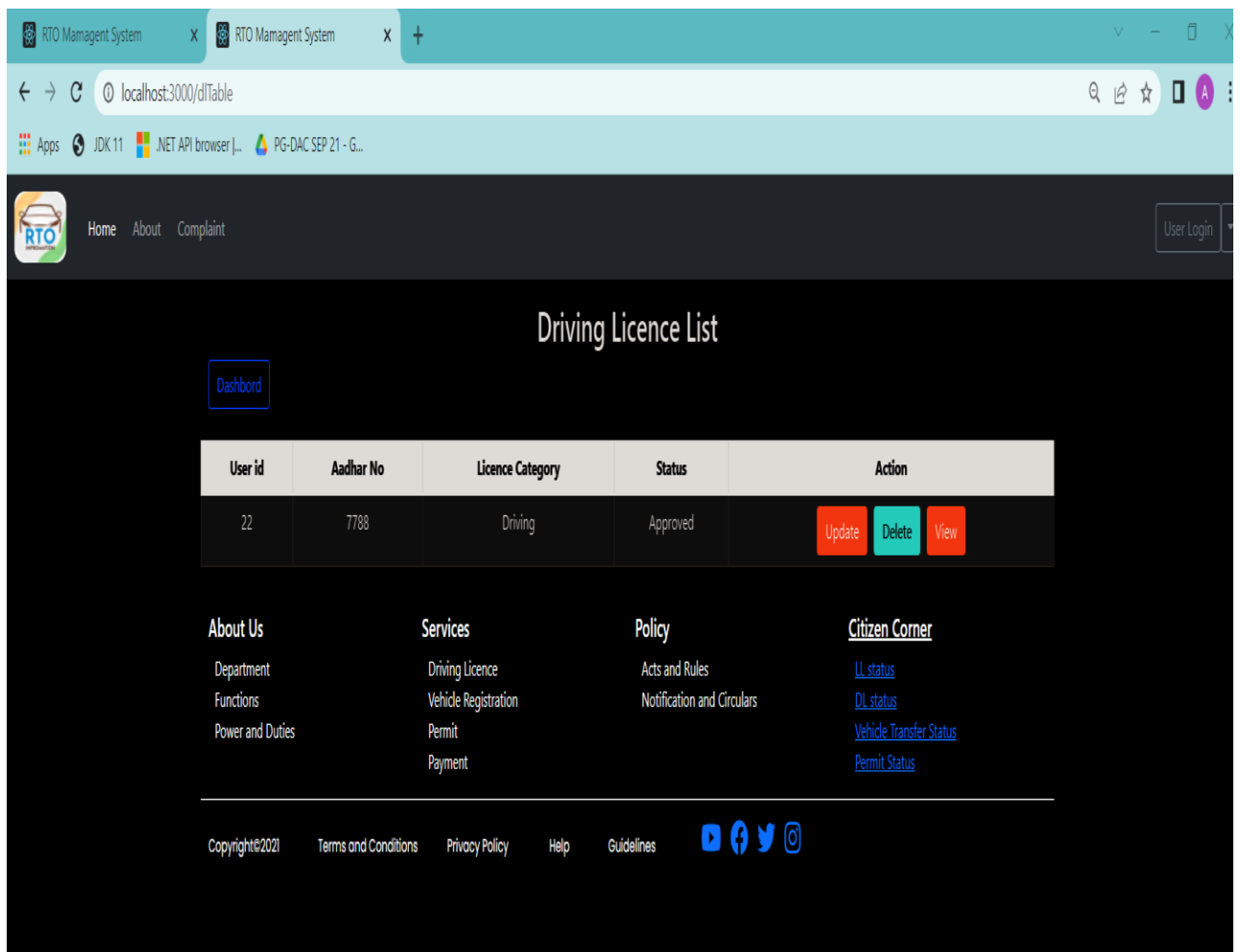
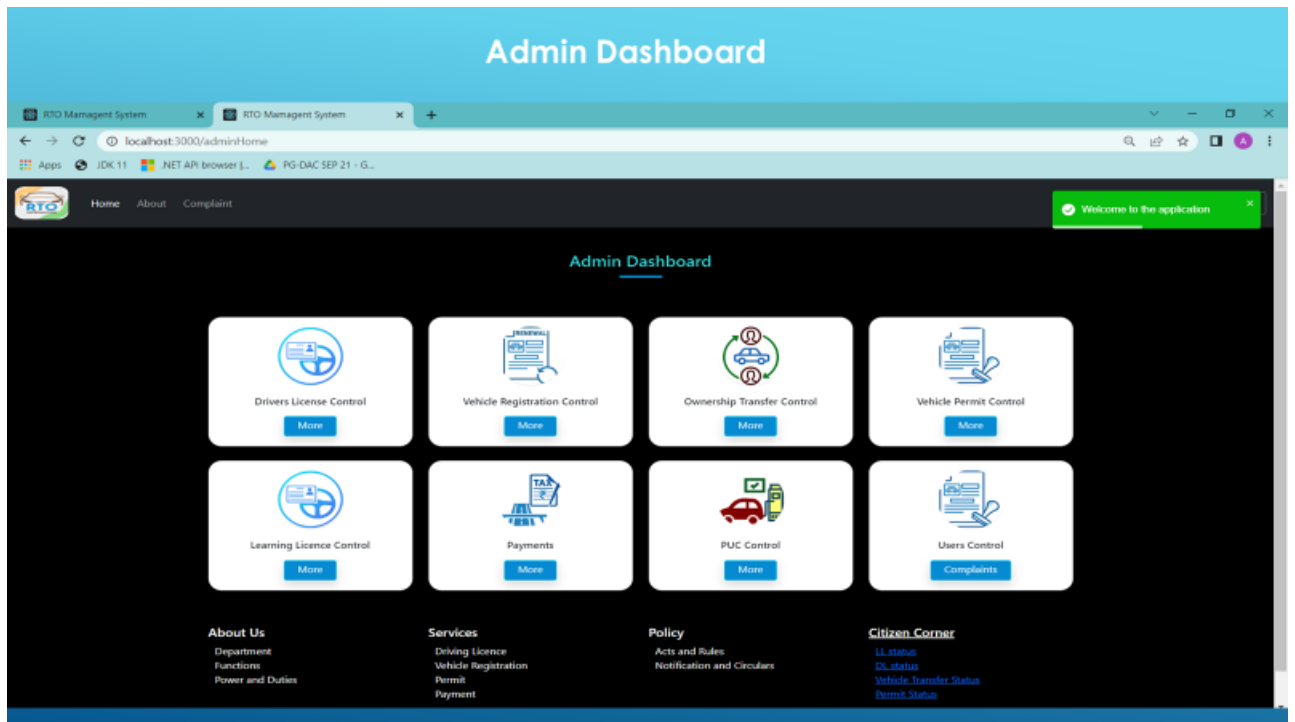
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localhost:3000/LLTable

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## Learning Licence List

Dashboard

User id	Aadhar No	Licence Category	Status	Action
22	7788	Learning	Pending..	Update Delete View
26	7412	Learning	Approved	Update Delete View

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## RC List

Dashboard

Aadhar No.	Owner	Make	Vehicle Class	Status	Action
11122	akansh	honda	I	pending..	Update Delete View
1123	akansh	honda	I	pending..	Update Delete View

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User Payment List

Dashboard

Payment id	Amount	User id	To Date	Action
22	1000	20	2022-04-09	<div>DeleteView</div>
23	1000	22	2022-04-10	<div>DeleteView</div>
24	800	22	2022-04-10	<div>DeleteView</div>
25	1000	26	2022-04-13	<div>DeleteView</div>

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localhost:3000/vtransferTable

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Dashboard

Registration No	Transfer No	New Owner	New Owner Email	Status	Action
3		BISEN	bise@gmail.com	pending..	<div>UpdateDeleteView</div>

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Registration No	Registration id	From Date	To Date	Status	Action
3	10	2022-04-10	2022-04-11	pending..	<div>UpdateDeleteView</div>

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Dashboard

Registration No	Registration id	From state	To State	Status	Action
3	10	CG	MH	pending..	<div>UpdateDeleteView</div>

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## Users List

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Aadhar No.	Email	Name	Address	Actions
1122	aka@gmail.com	AKANSH	Bhilai	<a href="#">Update</a> <a href="#">Delete</a> <a href="#">View</a>
7788	bisen@gmail.com	AKANSH BISEN	Bhilai	<a href="#">Update</a> <a href="#">Delete</a> <a href="#">View</a>
7412	a@gmail.com	akansh	Bhilai	<a href="#">Update</a> <a href="#">Delete</a> <a href="#">View</a>

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localhost:3000/complaint


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Complaints

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Complaint Form

User Id

Enter user id

Aadhar Number

Enter Aadhar Number

Complain

Type your Complain here

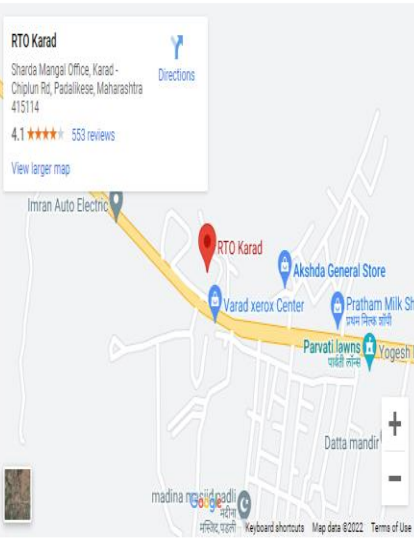
Send Complaint

RTO Karad

Sharda Mangal Office, Karad -  
Chiplun Rd, Padalikese, Maharashtra  
415114

4.1 ★★★★★ 553 reviews

View larger map



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Dashboard

Aadhar No	User id	Complain No	Action
1122	22		<div>UpdateDeleteView</div>

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## 7. Conclusion

### **Conclusion:**

It can be concluded that our project "RTO Management System" which is an Automation of Road Transport Department was successfully developed and tested by our team. Our system introduces a facility for the R.T.O Officers to perform verification of the License and Vehicle documents electronically. It will also help the RTO officials to maintain records systematically and reduces a lot of paper work and manual efforts. We also identified some general requirements of such a system and tried to meet those requirements as much as possible.

### **Future Scope:**

This project can be enhanced further by adding mailing services for each approved functionality, PDF download facility for the users to download their details online without going to RTO office for physical copy. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user-friendly website.

## 8. References

### References:

- <https://docs.oracle.com/en/java/javase/11/docs/api/index.html>
- <https://getbootstrap.com/docs/4.6/getting-started/introduction/>
- <https://www.w3schools.com/>
- <https://reactjs.org/docs/getting-started.html>
- <https://www.javatpoint.com/java-mail-api-tutorial>