



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

Documentation On

**“E-RTO System”
PG-DAC SEP 2021**

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Figure 6 ER Diagram 11

1. INTRODUCTION

Introduction:

The e-RTO System's aim is to automate the major processes in Regional Transport Offices. The Online RTO system provides citizens with 24/7 access to services like online registration for Learner's license & Permanent license. Admin can update application status and can also manage time slots for tests. The main motive of the system is to make the daily activities efficient and to provide fast response by storing and retrieving information & informing it to the users via Email.

Problem Statement:

Now a day's many people are purchasing two wheelers, four wheelers etc. So the RTO employees having lot of work burden of making registration. License issue, transfer etc. which required lot of paper work. As a result people cannot get the things done in right time, which waste the time, energy. Similarly the vehicle owner sometimes forgets to carry the license at the time of enquiry. So to overcome these drawbacks we are developing an enhanced e-RTO Management System. Such like that we provide one type of environment which gives a user friendly means user can access and understand well. Administrator has the power to verify the data entered by the user, processing of data and provide appropriate solutions.

E-RTO Management system is an advanced system which is designed keeping in view to make the existing registration system easier and faster. It includes the entire registration procedure starting from the initial phase of entering till the results. It is more reliable, accurate time, saving and free from any misuse. The tedious jobs such as verifying all the records of the applicant, confirming all the personal details are furnished, submission of documents, driving license, registration details, etc. are done in the most convenient way to the administrator. Also security is being provided in the most proficient way.

Aims and Objective:

The aim is to build a user-friendly webpage where the citizens can apply for learner's license, driving license. The webpage also provides provision for citizens to submit their complaints. Mainly, the website is used for issuing of license. An individual can apply for learning license and driving license online. Accordingly, slots and dates are generated for the respective test. The application received will be verified and approved by the RTO officials. The applicant can monitor the status of their application.

In other words, our E-RTO Management system portal has, following objectives:

- Simple database is maintained.
- Easy operations for the user and the admin of the system.
- User interfaces are user accommodating and attractive; it takes very less time for the operator to use the system.

2. OVERALL DESCRIPTION

Proposed Methodology:

The proposed system is aimed to automate the major processes in the Regional Transport Office. E-RTO Management System for different License Scope: “RTO Management System” is aimed to automate the major processes in Regional Transport Offices. The scope of Online RTO Management system includes a complete suite of portal to provide citizens with 24/7 access to services like Online Registration for Learner's license & permanent license, Examination and maintaining results, Management of time slots for driving tests. The main motive of the system is to make the daily activities efficient and providing fast response by storing and retrieving information & informing it to the users via SMS or E-Mail.

OPERATING ENVIRONMENT:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 4GB

OS: Windows 10

Database: MySQL

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 2GB

OS: Windows 7

Design and Implementation Constraints:

- The application will use ReactJs, Axios and CSS as main web technologies.
- HTTP protocol is used as communication protocol. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since E-RTO SYSTEM is a web-based application, internet connection must be established.

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.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.
-

4. SYSTEM DIAGRAMS.

- **Activity Diagram:**

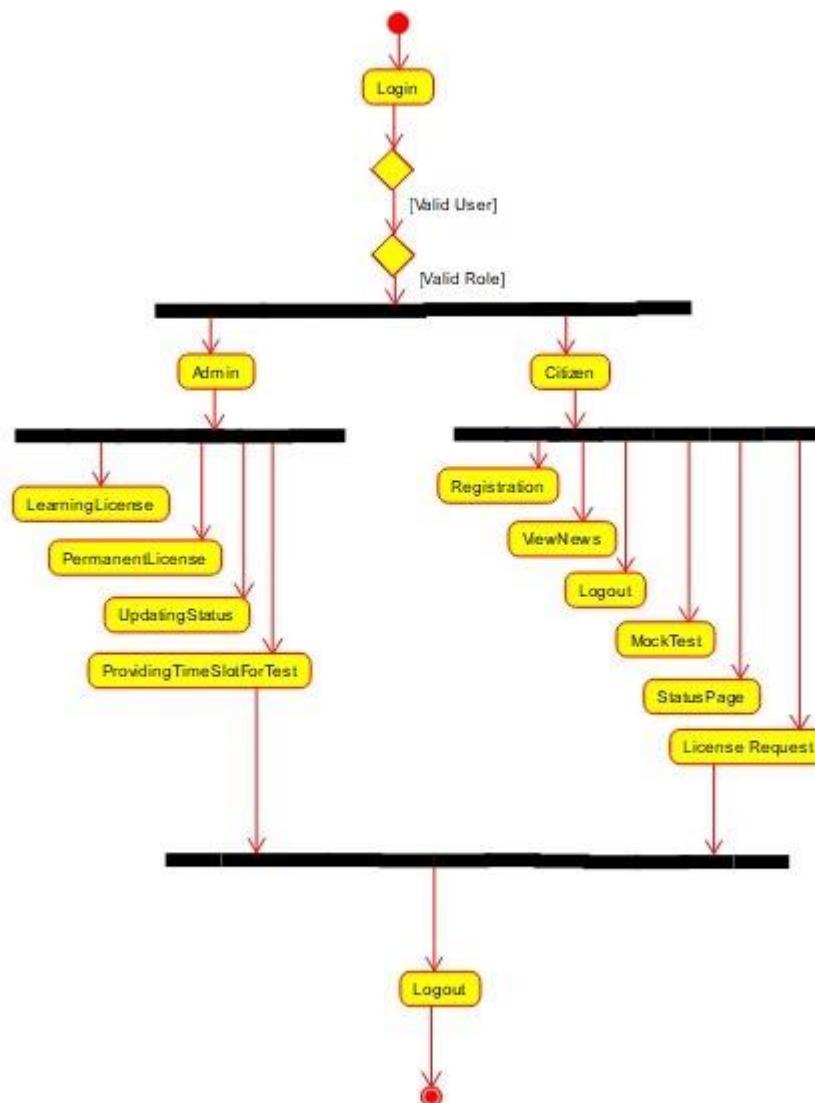


Fig 1

- **Sequence diagram:**

ADMIN Sequence:-

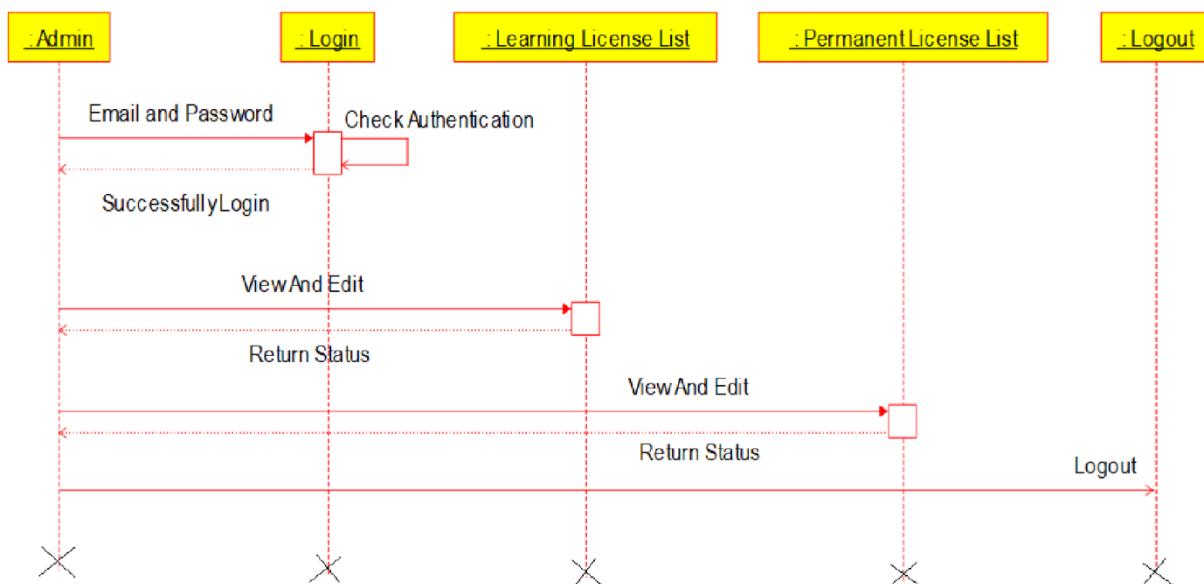


Fig 2

CITIZEN Sequence:

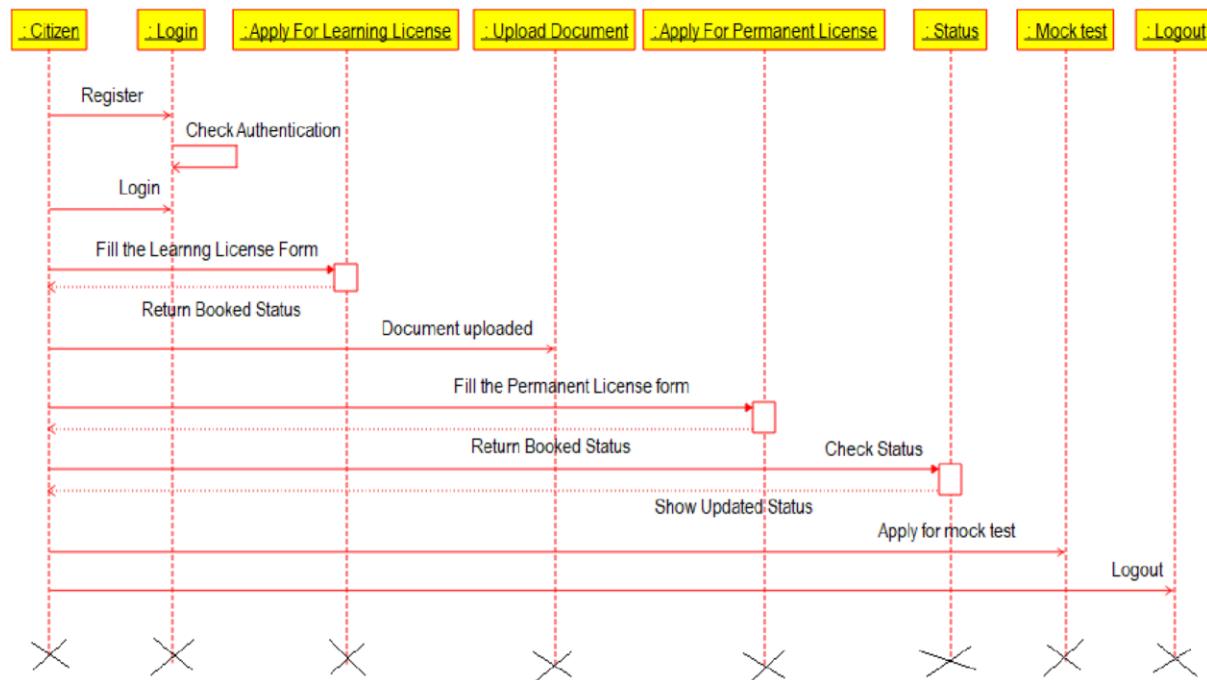


Fig.3

- **Use Case Diagrams:**

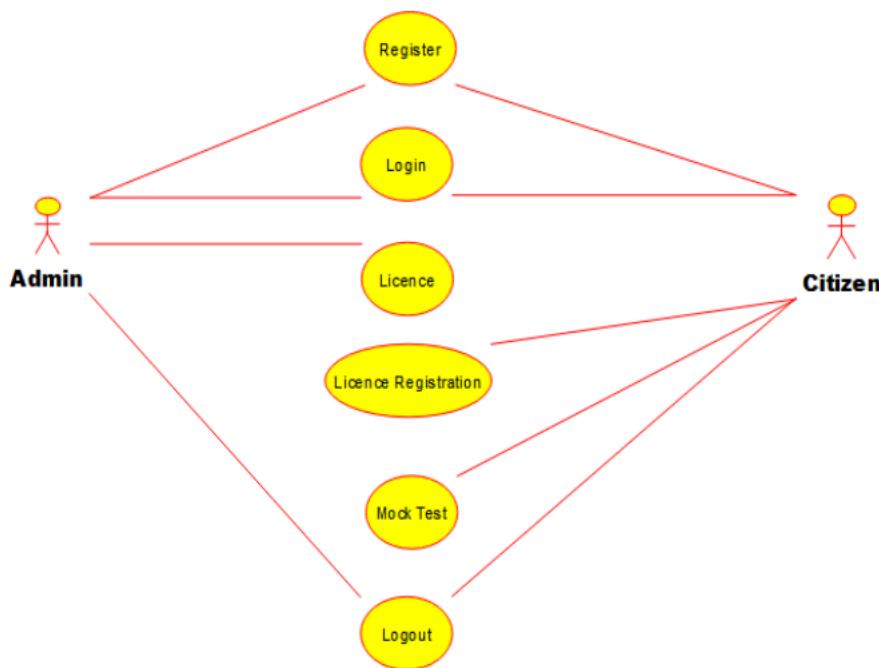
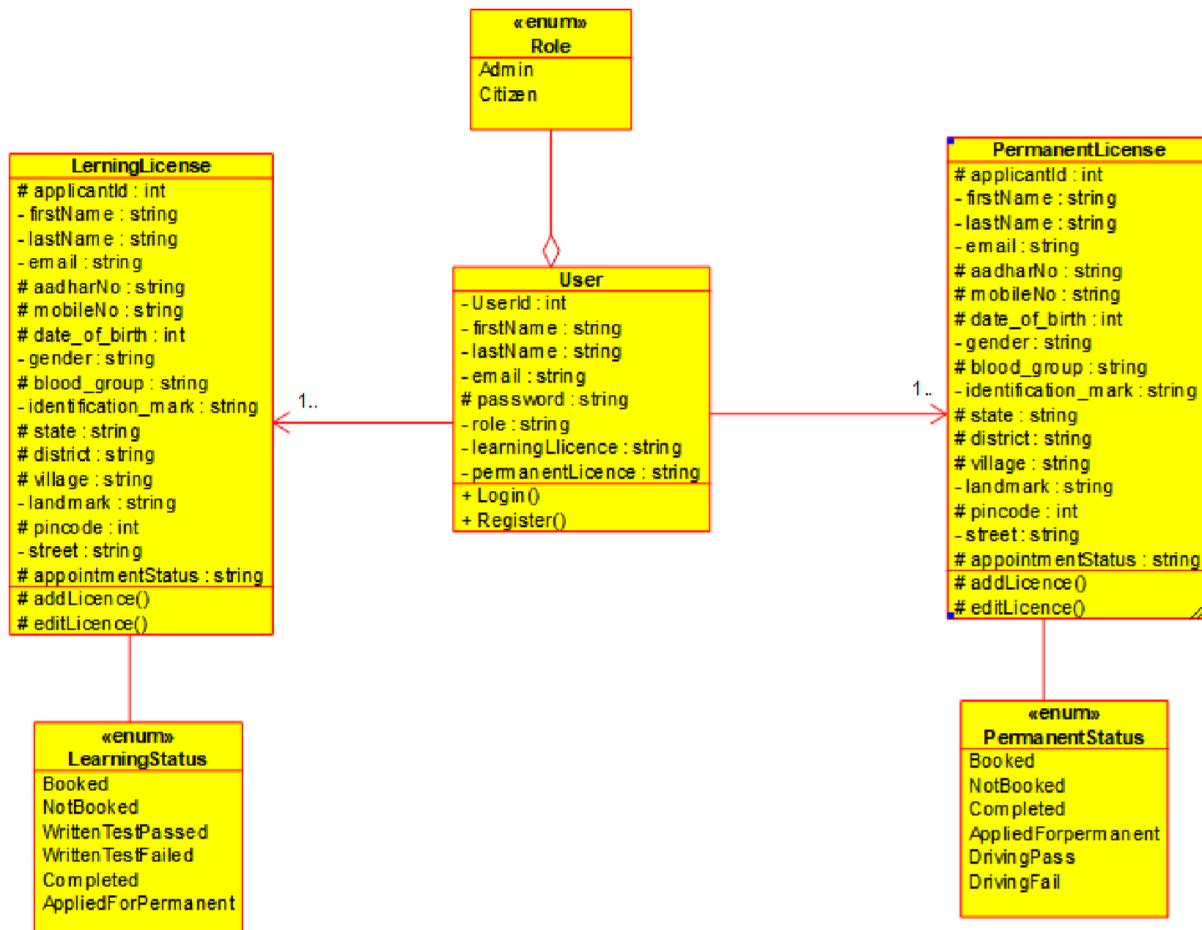


Fig.4

Class-Diagram:



Class Diagram For e-RTO System

Fig.5

ER-Diagram:

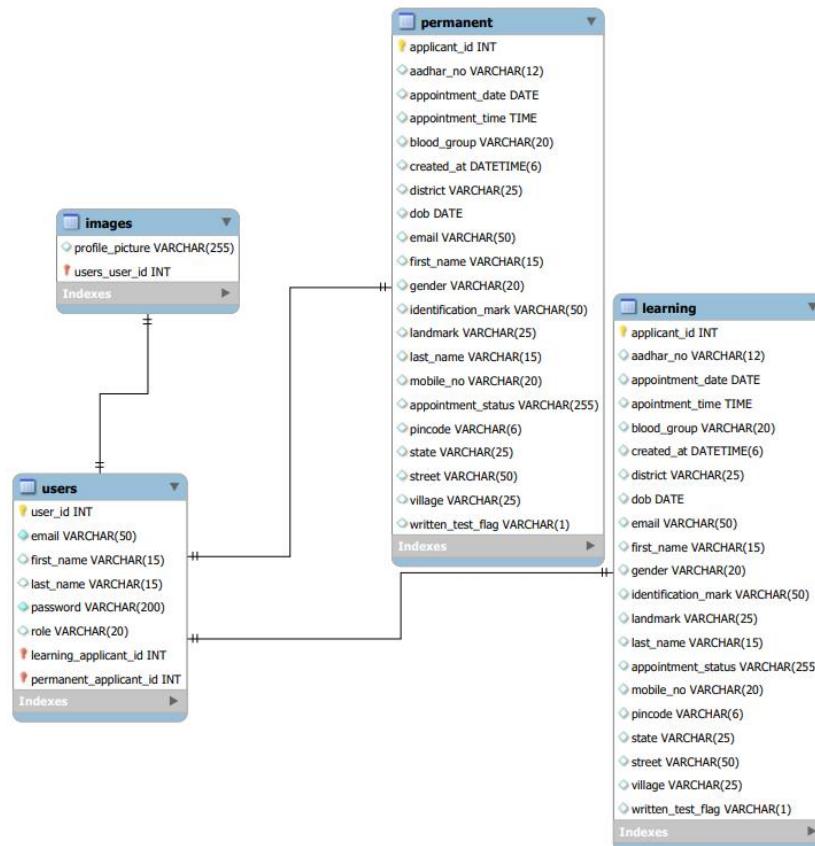


Fig.6

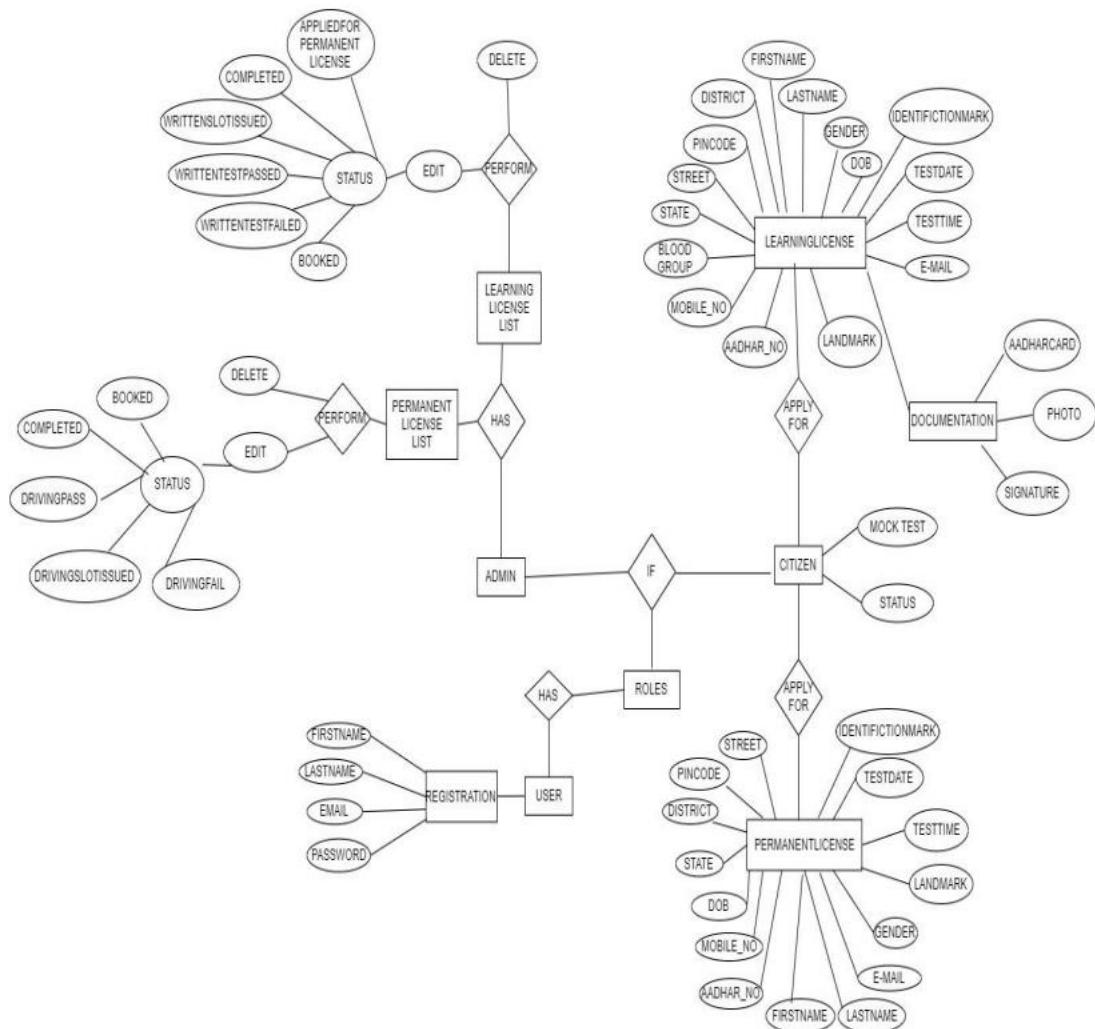


Fig 7

5. TABLE STRUCTURE

- Users:

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increment
email	varchar(50)	NO	UNI	NULL	
first_name	varchar(15)	YES		NULL	
last_name	varchar(15)	YES		NULL	
password	varchar(200)	NO		NULL	
role	varchar(20)	YES		NULL	

6 rows in set (0.02 sec)

- learning:

Field	Type	Null	Key	Default	Extra
applicant_id	int	NO	PRI	NULL	
aadhar_no	varchar(12)	YES	UNI	NULL	
appointment_date	date	YES		NULL	
apointment_time	time	YES		NULL	
blood_group	varchar(20)	YES		NULL	
created_at	datetime(6)	YES		NULL	
district	varchar(25)	YES		NULL	
dob	date	YES		NULL	
email	varchar(50)	YES		NULL	
first_name	varchar(15)	YES		NULL	
gender	varchar(20)	YES		NULL	
identification_mark	varchar(50)	YES		NULL	
landmark	varchar(25)	YES		NULL	
last_name	varchar(15)	YES		NULL	
appointment_status	varchar(255)	YES		NULL	
mobile_no	varchar(20)	YES		NULL	
pincode	varchar(6)	YES		NULL	
state	varchar(25)	YES		NULL	
street	varchar(50)	YES		NULL	
village	varchar(25)	YES		NULL	
written_test_flag	varchar(1)	YES		NULL	
user_id	int	YES	MUL	NULL	

22 rows in set (0.01 sec)

- permanent:

Field	Type	Null	Key	Default	Extra
applicant_id	int	NO	PRI	NULL	
aadhar_no	varchar(12)	YES	UNI	NULL	
appointment_date	date	YES		NULL	
appointment_time	time	YES		NULL	
blood_group	varchar(20)	YES		NULL	
created_at	datetime(6)	YES		NULL	
district	varchar(25)	YES		NULL	
dob	date	YES		NULL	
email	varchar(50)	YES		NULL	
first_name	varchar(15)	YES		NULL	
gender	varchar(20)	YES		NULL	
identification_mark	varchar(50)	YES		NULL	
landmark	varchar(25)	YES		NULL	
last_name	varchar(15)	YES		NULL	
mobile_no	varchar(20)	YES		NULL	
appointment_status	varchar(255)	YES		NULL	
pincode	varchar(6)	YES		NULL	
state	varchar(25)	YES		NULL	
street	varchar(50)	YES		NULL	
village	varchar(25)	YES		NULL	
written_test_flag	varchar(1)	YES		NULL	
user_id	int	YES	MUL	NULL	

22 rows in set (0.01 sec)

- app_id:

Field	Type	Null	Key	Default	Extra
next_val	bigint	YES		NULL	

1 row in set (0.00 sec)

- images:

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	
profile_picture	varchar(255)	YES		NULL	

2 rows in set (0.00 sec)

6. CONCLUSION

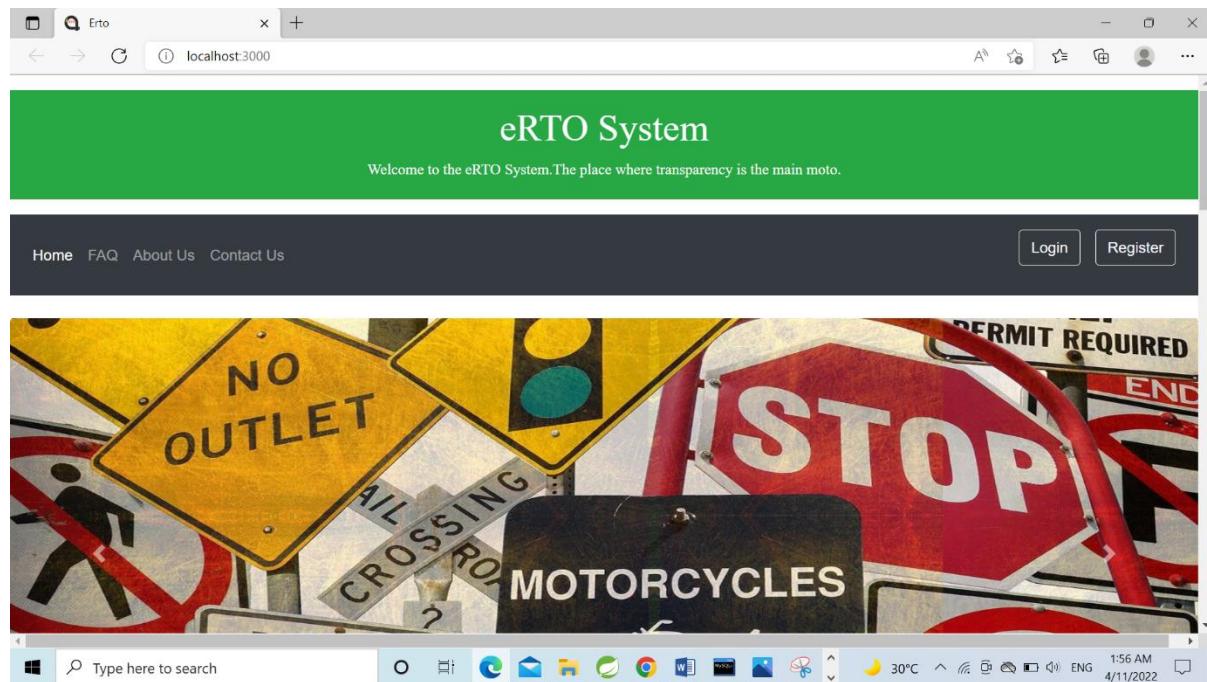
- ◆ The system generated only a limited number of reports. If more detailed reports are required the system can be directed Even though the system has well communication facility, it's not enough.
- ◆ The mail service can be enhanced with features bcc, cc etc. The system has full security but the account information for the customer credit information.
- ◆ Improved communication, ease of access to RTO resources such as Registration forms etc , will help foster a stronger user relationship.
- ◆ e - RTO management will empower you to spend more time and effort developing your users' lifelong learning license.
- ◆ In this e-RTO management complete global Module. (Any Where Any Time)
- ◆ In this system the main entity is Admin who has all the right.
- ◆ Here the main tasks of admin are update/delete registration, license.

- **Future Scope:**

This project can be enhanced further by adding some more features. The application is design in such a way that any further enhancements can be done with ease. The system has the capability for easy integration with other systems. New modules can be added to the existing system with less effort. In future a new function or procedure can be easily added in the system through these classes. Or even a new class can be added.

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 to Regional Offices.

SCREENSHOTS



The screenshot shows the FAQ page of the eRTO System. The title bar reads "localhost:3000/#faq". The left sidebar lists several news items:

- RTO to soon introduce grading system for driving schools.
- Pune: Re-register vehicles aged over 15, says RTO
- Aadhaar link will ease RTO rush
- Nashik RTO gets ISO certification
- RTO conducts surprise check of pvt buses
- Pune: Helmets now mandatory to visit RTO
- E-vehicle registrations soar in Pune, Pimpri Chinchwad..
- Delhi: Transport services set to go online

The right sidebar contains links to various services:

- Application for No Objection Certificate
- If customer apply for NOC then he is not able to take any other online service.
Till NOC application is approved the user would not be able to apply any service. Once NOC application is approved from the RTO then the user can apply for any service.
- Duplicate Registration Certificate
- Pay Your Tax
- Transfer of Ownership

At the bottom is a Windows taskbar with a search bar, pinned icons for various applications like File Explorer, Mail, and Google Chrome, and system status indicators.

The screenshot shows a web browser window titled "Ertos" with the URL "localhost:3000/#contactus". The page has a dark header with navigation links: Home, FAQ, About Us, Contact Us, Login, and Register. Below the header is a placeholder image for a profile picture. The main content area features two large orange icons: a location pin labeled "Reach Us" and an envelope labeled "Contact Us". Below these icons, the address is listed: Dr. D.Y.Patil Educational Complex, Sector 29, Nigdi Pradhikaran, Akurdi, Maharashtra 411044. The footer contains a copyright notice: "©Copyright-2022 eRTO System". The taskbar at the bottom shows various pinned application icons.

The screenshot shows a web browser window titled "Ertos" with the URL "localhost:3000/user/login". The page has a green header with the text "eRTO System" and a sub-header: "Welcome to the eRTO System. The place where transparency is the main moto.". Below the header is a dark navigation bar with links: Home, FAQ, About Us, Contact Us. The main content area is titled "Login" and contains fields for "Email Id" (with the value "kaursidak297@gmail.com") and "Password" (with the value "*****"). A blue "Login" button is centered below the password field. At the bottom of the page, there are links for "Forgot Password" and "Not Registered? Create an account". The taskbar at the bottom shows various pinned application icons.

eRTO System

Welcome to the eRTO System. The place where transparency is the main moto.

Welcome sidak [Log Out](#)

Learning License

Need for a Driving License

No person shall drive a motor vehicle in any public place unless he holds an effective driving license issued to him by the licensing authority, authorising him to drive the vehicle.

Licensing Authorities

The joint commissioner/deputy commissioner and the regional transport officers are the licensing authorities. The administrative officers and motor vehicle inspectors are the additional licensing authorities.

Age limit to obtain Driving License

- An applicant who has completed sixteen years of age is eligible to apply for a driving license to drive a motor cycle with engine capacity below 55 cc subject to the condition that the parent or guardian should furnish a declaration in the manner prescribed.
- The applicant who has completed the age of eighteen years of age is eligible to apply for a driving license to drive a motor vehicle other than a transport vehicle.
- An applicant who has completed twenty years of age will be eligible for applying for a license to drive a transport vehicle.

applying for a license to drive a transport vehicle.

Permanent License

The faculty of online slot booking for test of competence of driving license has been provided. Please visit the website for scheduling an appointment.

Procedure:

- Schedule an appointment for the test of competence online by visiting the website or any RTO office where such facility exists. In other cases schedule an appointment directly at the office concerned.
- An application in Form 4, for a permanent driving license shall be made along with the learner's license obtained for such class of vehicle.
- The applicant who has held a valid Learner's license, for a period of at least 30 days, shall be competent to appear for the test of competence.

-The test of competence will be conducted by the competent authority.

-The applicant should bring a vehicle of the type to which the application relates.

-The application should satisfy the officer conducting the test regarding his capability to drive the vehicle and his ability to perform the tasks specified in Rule-15(2) of the CMVR.

-The candidate who passes the test of competence successfully will be issued with a driving license and sent through speed post to the address furnished.

-Fees as prescribed along with user charges.

Permanent License

The faculty of online slot booking for test of competence of driving license has been provided. Please visit the website for scheduling an appointment.

Procedure:

- Schedule an appointment for the test of competence online by visiting the website or any RTO office where such facility exists. In other cases schedule an appointment directly at the office concerned.
- An application in Form 4, for a permanent driving license shall be made along with the learner's license obtained for such class of vehicle.
- The applicant who has held a valid Learner's license, for a period of at least 30 days, shall be competent to appear for the test of competence.

-The test of competence will be conducted by the competent authority.
 -The applicant should bring a vehicle of the type to which the application relates.
 -The application should satisfy the officer conducting the test regarding his capability to drive the vehicle and his ability to perform the tasks specified in Rule-15(2) of the CMVR.
 -The candidate who passes the test of competence successfully will be issued with a driving license and sent through speed post to the address furnished.
 -Fees as prescribed along with user charges.

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Love from IACSD ❤️

eRTO System

Welcome to the eRTO System. The place where transparency is the main moto.

Home License ▾ Mock Test Status Welcome sidak Log Out

Learning License

Need for a Driving License
No person shall drive a motor vehicle in any public place unless he holds an effective driving license issued to him by the licensing authority , authosrising him to drive the vehicle.

Licensing Authorities
The joint commissioner/deputy commissioner and the regional transport officers are the licensing authorities. The administrative officers and motor vehicle inspectors are the additional licensing authorities.

Age limit to obtain Driving License

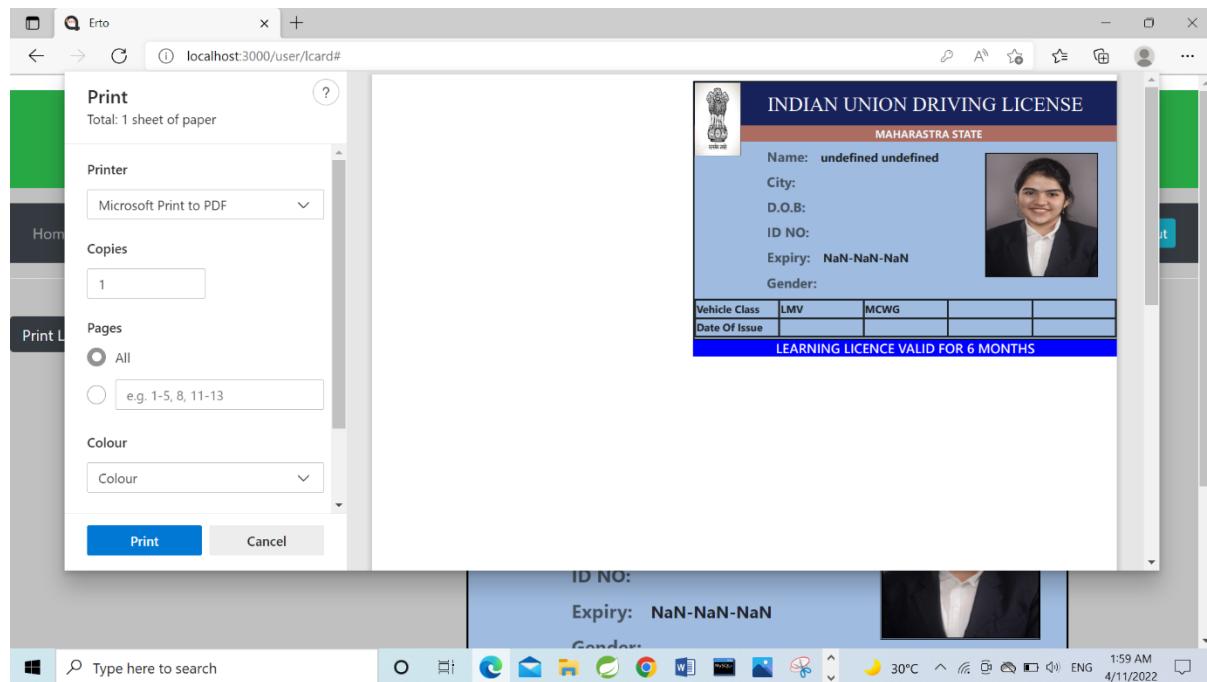
- An applicant who has completed sixteen years of age is eligible to apply for a driving license to drive a motor cycle with engine capacity below 55 cc subject to the condition that the parent or guardian should furnish a declaration in the manner prescribed.
- The applicant who has completed the age of eighteen years of age is eligible to apply for a driving license to drive a motor vehicle other than a transport vehicle.
- An applicant who has completed twenty years of age will be eligible for applying for a license to drive a transport vehicle.

Screenshot of a web browser window titled "Erto" showing the URL "localhost:3000/user/status". The page has a dark header with "Home", "License", "MockTest", "Status", and "Log Out" buttons. Below the header is a section titled "Know Your Status" with a button "Click Here To Know Your Learning License Status". A blue message box contains the text: "LEARNER LICENSE ALLOTED : Your learning license has been issued successfully. The validity for learner's license is 6 months only. So, apply within the due date". Below this is a green button labeled "DownLoad your Learning Licence". Another "Click Here To Know Your Permanent License Status" button is present. The taskbar at the bottom shows the Windows Start button, a search bar with "Type here to search", pinned icons for Edge, Mail, File Explorer, Photos, Google Chrome, Word, Excel, and Powerpoint, and system icons for battery, signal, volume, and date/time (1:58 AM, 4/11/2022).

Screenshot of a web browser window titled "Erto" showing the URL "localhost:3000/user/status". The page features a large green header with the text "eRTO System" and "Welcome to the eRTO System. The place where transparency is the main moto.". Below the header is a dark navigation bar with "Home", "License", "MockTest", "Status", and "Log Out" buttons. The main content area includes "Know Your Status" and "Click Here To Know Your Learning License Status" buttons, and a "Click Here To Know Your Permanent License Status" button. A blue message box at the bottom contains the text: "PERMANENT : Apply For Permanent License First.". The taskbar at the bottom shows the Windows Start button, a search bar with "localhost:3000/user/status#collapsePermanent", pinned icons for Edge, Mail, File Explorer, Photos, Google Chrome, Word, Excel, and Powerpoint, and system icons for battery, signal, volume, and date/time (1:58 AM, 4/11/2022).

The screenshot shows a web browser window titled "Ertos" with the URL "localhost:3000/user/status". The main content area has a green header bar with the text "eRTO System" and a sub-header "Welcome to the eRTO System. The place where transparency is the main moto.". Below this is a dark navigation bar with links "Home", "License", "MockTest", "Status", and a "Log Out" button. The main content area contains a section titled "Know Your Status" with a button "Click Here To Know Your Learning License Status". A blue callout box displays the message "LEARNER LICENSE ALLOTED : Your learning license has been issued successfully. The validity for learner's license is 6 months only. So, apply within the due date". At the bottom is a green button labeled "Download your Learning Licence". The taskbar at the bottom of the screen shows various pinned icons and the system tray.

The screenshot shows a web browser window titled "Ertos" with the URL "localhost:3000/user/lcard". The layout is similar to the status page, with a dark navigation bar and a main content area. The main content area features a button "Print Learning License". Below it is a large preview of a "INDIAN UNION DRIVING LICENSE" card for "MAHARASTRA STATE". The card displays placeholder data: Name: undefined undefined, City: undefined, D.O.B: undefined, ID NO: undefined, Expiry: NaN-NaN-NaN, Gender: undefined. It includes a photo of a person and a table for vehicle class (LMV, MCWG) and date of issue. A blue banner at the bottom of the card reads "LEARNING LICENCE VALID FOR 6 MONTHS". The taskbar at the bottom of the screen shows various pinned icons and the system tray.



eRTO System

Welcome to the eRTO System. The place where transparency is the main moto.

Home License ▾ Status Log Out

Question 1/12

What does this sign mean?

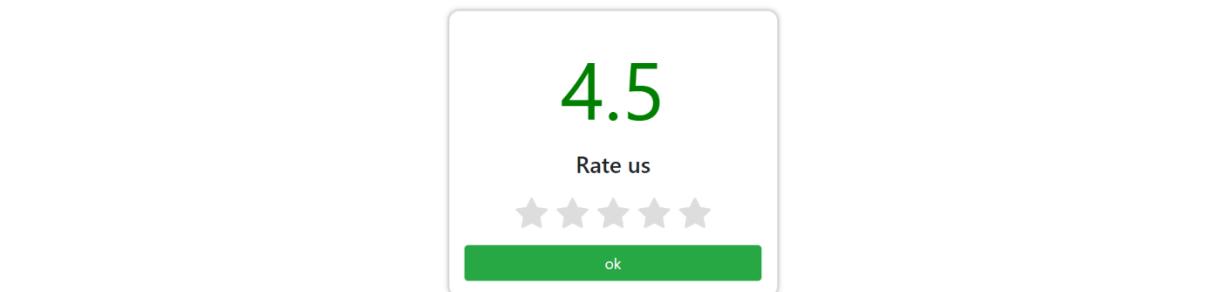
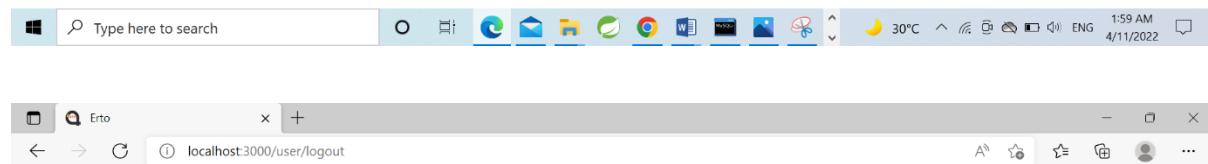
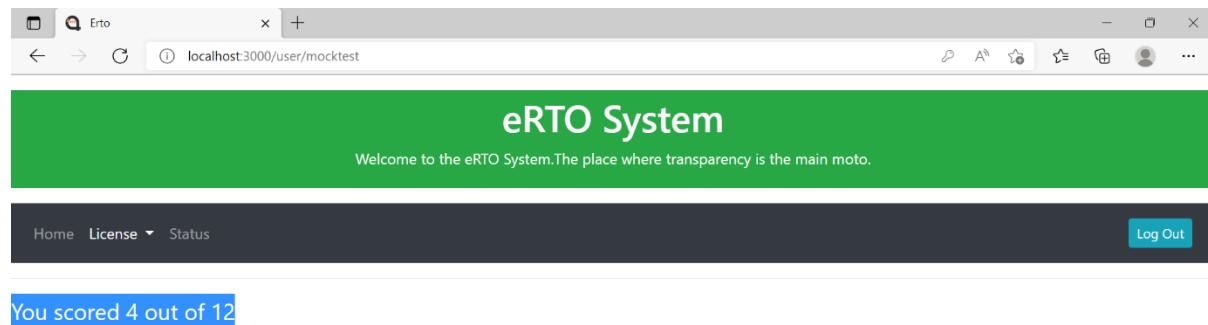


No freeway

No parking

No right turn





localhost:3000/user/register

Home FAQ About Us Contact Us Login Register

Register/SignUp

First Name Last Name
Enter First name Enter Last name

Email Id :
Enter email

Password:
Enter password

Your password must be 8-20 characters long. Must contain 1 capital letter and 1 number.Must not contain spaces or emoticons.

Register/SignUp

Already Registered ? [Click Here to Login](#)

Type here to search

localhost:3000/user/register

Home FAQ About Us Contact Us Login Register

Register/SignUp

First Name Last Name
Ram Sahu

Email Id : rama@gmail.com

Password: *****

Your password must be 8-20 characters long. Must contain 1 capital letter and 1 number.Must not contain spaces or emoticons.

Register/SignUp

Already Registered ? [Click Here to Login](#)

Type here to search

The screenshot shows a web browser window titled 'Erto' with the URL 'localhost:3000/license/learning'. The title bar includes standard icons for minimize, maximize, and close. Below the title bar is a green header bar with the text 'eRTO System' and a sub-header 'Welcome to the eRTO System.The place where transparency is the main moto.' A dark navigation bar at the top contains links for 'Home', 'License ▾', 'Status', and a 'Log Out' button. The main content area is titled 'Apply For Learning License' and contains fields for 'First Name' (placeholder 'Enter First name'), 'Last Name' (placeholder 'Enter Last name'), 'Email Id' (value 'rama@gmail.com' with a green checkmark icon), 'Aadhar No.' (placeholder 'Enter Aadhar No.'), and 'Mobile No.'. The bottom of the window shows a Windows taskbar with a search bar, pinned icons for various applications like File Explorer, Mail, and Google Chrome, and system status indicators.

The screenshot shows a web browser window titled 'Erto' with the URL 'localhost:3000/user/status'. The title bar and navigation bar are identical to the previous screenshot. The main content area is titled 'eRTO System' and 'Welcome to the eRTO System.The place where transparency is the main moto.'. A dark navigation bar at the top contains links for 'Home', 'License ▾', 'MockTest', 'Status', and a 'Log Out' button. The main content area is titled 'Know Your Status' and contains a button labeled 'Click Here To Know Your Learning License Status'. Below this button is a blue message box with the text 'LEARNER LICENSE FORM SUBMITTED : Your Learning License Application Form is under Process, Confirmation regarding test will reach you within 48 hours.' The bottom of the window shows a Windows taskbar with a search bar, pinned icons for various applications, and system status indicators.

The screenshot shows the homepage of the eRTO System. At the top, there is a green header bar with the text "eRTO System" and a sub-header below it stating "Welcome to the eRTO System. The place where transparency is the main moto.". Below the header, there are two tabs: "Learning License List" (which is selected) and "Permanent License List". On the right side of the header, there is a "Log Out" button. Below the tabs, there is a search bar with the placeholder text "Searching.....". The main content area is titled "Learning License List" and displays a table with the following data:

applicantId	firstName	email	aadharNo	mobileNo	district	learningStatus	Action
12300	Anshumala	anshusid2@gmail.com	222299991111	+919111929393	Pune	APPLIEDFORPERMANENT	<button>Update</button> <button>Delete</button>
12453	Sid	kaursidak297@gmail.com	222299997777	+919340137005	Pune	REJECTED	<button>Update</button> <button>Delete</button>
12501	Ram	rama@gmail.com	111122229999	+918888888888	Pune	BOOKED	<button>Update</button> <button>Delete</button>

The screenshot shows an edit page for a license application. The page has several input fields: "Pin code" (491445), "Village" (Champa), "Landmark" (India), "Street" (hgjhj), "Created At" (2022-03-25T17:19:43.486+00:00), "Driving Test Date:" (a dropdown menu showing options: BOOKED, WRITTENSLOTISSUED, WRITTENTESTPASSED, WRITTENTESTFAILED, COMPLETED, REJECTED, with BOOKED selected), "Driving Test Time" (a dropdown menu showing options: BOOKED, COMPLETED, REJECTED, with BOOKED selected), and "AppomintmentStatus:" (a dropdown menu showing options: BOOKED, COMPLETED, REJECTED, with BOOKED selected). At the bottom of the form is a blue "Save" button.

The screenshot shows a web browser window titled 'Ertos' with the URL 'localhost:3000/padmin'. The main header is 'eRTO System' with a sub-header 'Welcome to the eRTO System. The place where transparency is the main moto.' Below the header are two tabs: 'Learning License List' and 'Permanent License List', with 'Permanent License List' being active. A 'Log Out' button is in the top right. A search bar contains the placeholder 'Searching.....'. The main content area is titled 'Permanent License List' and displays a table with the following data:

applicantId	firstName	email	aadharNo	mobileNo	district	permanentStatus	Action
12351	Anshumala	anshusid2@gmail.com	222299991111	+919111929393	Pune	COMPLETED	<button>Update</button> <button>Delete</button>
12401	Sid	kaursidak297@gmail.com	222299997777	+919340137005	Pune	COMPLETED	<button>Update</button> <button>Delete</button>

The footer of the application includes a copyright notice '©Copyright-2022 eRTO System' and a Windows taskbar at the bottom with various icons and system status.

5. REFERENCES

- **References:**
- ❖ [React Tutorial \(w3schools.com\)](#)
- ❖ [Learn Spring Boot | Baeldung](#)
- ❖ [Spring Data JPA - Reference Documentation](#)
- ❖ [React – A JavaScript library for building user interfaces \(reactjs.org\)](#)
- ❖ Bootstrap · the most popular HTML, CSS, and JS library in the world. ([getbootstrap.com](#))