

**A PROJECT ON**  
**E-Regional Transport Office Management System**  
SUBMITTED IN  
PARTIAL FULFILLMENT OF THE REQUIREMENT  
FOR THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM CDAC



**SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY**

Hinjawadi

**SUBMITTED BY:**

Patil Ganesh Atul

**UNDER THE GUIDENCE OF:**

Prof. Pooja Jaiswal

Faculty Member

Sunbeam Institute of Information Technology, Pune

## **ACKNOWLEDGEMENT**

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A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards Mr. Nitin Kudale (Center Coordinator, SIIT, Pune) and Mr. Yogesh Kolhe (Course Coordinator, SIIT ,Pune)

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

Last but not the least we thank the entire faculty and the staff members of Sunbeam Institute of Information Technology, Pune for their support.

Patil Ganesh Atul  
0225 PG-DAC  
SIIT Pune



## **CERTIFICATE**

This is to certify that the project work under the title '**E-Regional Transport Office Management System**' is done by Patil Ganesh Atul in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

**Prof. Pooja Jaiswal**  
**Project Guide**

**Mr. Yogesh Kolhe**  
**Course Co-Coordinator**

Date: 11<sup>th</sup> August 2025

## **1. INTRODUCTION TO PROJECT**

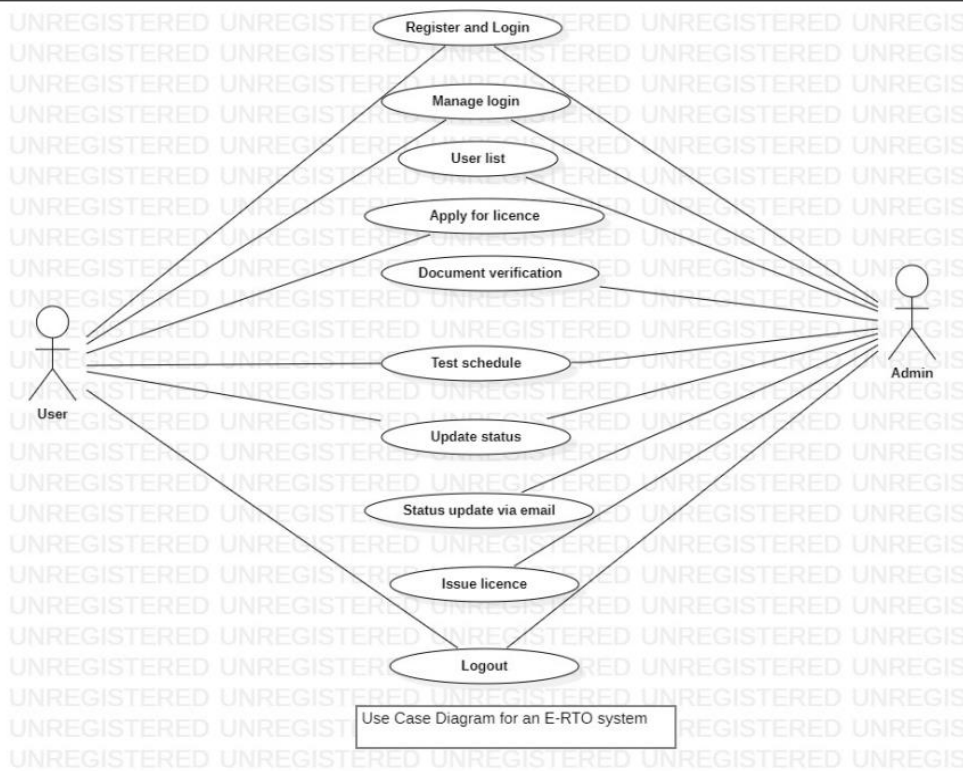
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Now-a-days in our country most of the existing RTO offices didn't have systematic driving license verification system. Regional Transport Office (RTO) is an Indian government bureau which is responsible for the registration of vehicles and issue of Driver's License in India. 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 and 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 and informing it to the users via Email.

## 2.REQUIREMENTS

### 2.1 FUNCTIONAL REQUIREMENTS

- User registration and authentication: User should be able to register and login with their information/detail. Admin should have separate login with additional privileges.
- Licence application: User should be able to apply for learning and driving licence online. Users should provide necessary document and personal information for the application.
- Document verification: The system should integrate algorithm to scan and verify up loaded documents including proof of identify and residence
- Licence status check: User should be able to check the status of their licence application



#### 2.1 User Account

The applicant, who will henceforth be called the 'user', will be presented with multiple options by the E-RTO Management System as the first step in their interaction. A user can choose one of these options depending on whether they are a guest or a registered user, and whether they wish to only view licensing information or also apply for and manage their license.

**A user who has previously registered with the system would have been provided with a unique User ID and a password. This ‘personal information’ will henceforth be referred to as the ‘profile’. Such a user with a profile in the system database shall be called a registered user.**

**A registered user will be able to:**

- 1. Apply for a Learner’s License (LL) or a Permanent License (PL) by filling the required online form.**
- 2. Upload necessary identification and address proof documents for OCR-based verification.**
- 3. Schedule appointments for driving tests.**
- 4. Track the current status of their application.**
- 5. Receive notifications via email or SMS about updates in their application process.**

**A new user, on the other hand, will either have to:**

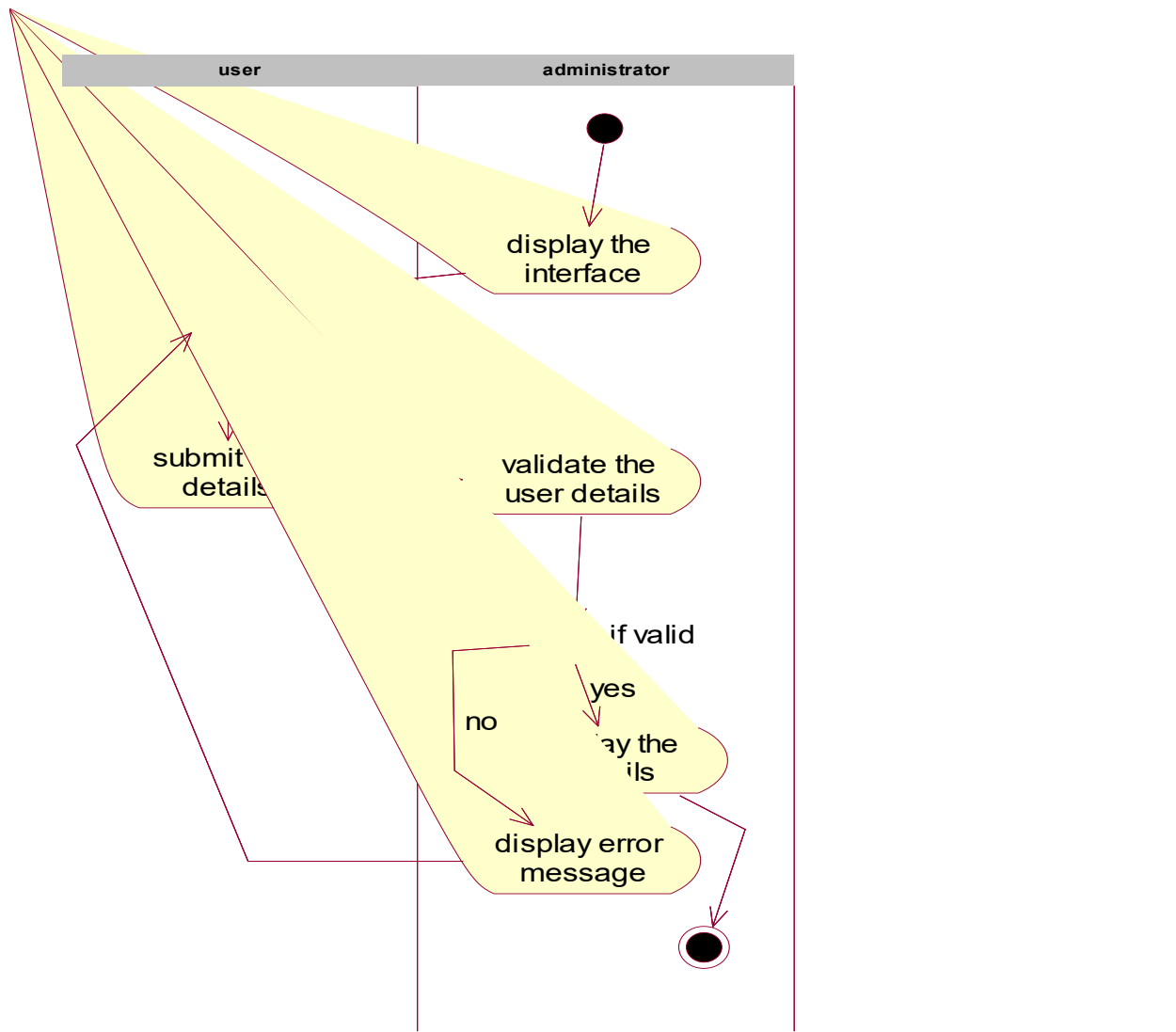
- a) Register themselves by providing personal details and creating login credentials, or**
- b) Continue as a guest.**

**In case of a, the new user becomes a registered user with full access to application and scheduling features.**

**In case of b, the guest user can only view general licensing information, RTO guidelines, and available test slots — they cannot apply for a license or manage an application.**

## **2.2 Registration and creation of user profile**

The system shall require a user to register, in order to apply for license . It will ask the user for the following information at the least – a user id, a password, first name, last name, address, phone number, email address, sex, age and other necessary details. Then user can Login to system and apply for learner license first and then after generating learner license user can apply for permanent license .



## 1. Quick Search

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The **Quick Search** feature on the E-RTO Management System homepage is designed to provide users with instant access to essential services and information without requiring them to navigate deep into the site. It serves as a central point for frequently accessed features, allowing both registered and guest users to quickly retrieve relevant details.

The Quick Search section contains the following elements:

### Search for Application Status

Users can enter their Application Number or User ID to instantly check the current status of their Learner's License or Permanent License application.

1. The search result displays key information such as submission date, verification status, test appointment date, and final approval/rejection updates.

## **2. Making license application -**

After having taken the user through the step 2.2, , The system allow users to apply for license .  
If yes, and

1. if the user has been a guest, he will have to first register and become a registered user and then log onto the system.
2. If the user is already a registered user, and if he has logged on already, he can apply for license but if he has been acting as a guest, he will have to log on.

Having ensured that the user is logged on validly .then user has to fill all the required details in learning license registration form an them he has to submit the details .

User can give mock test related to driving rules and all the regulation that has to be followed by every citizen to drive vehicles and to maintain all the laws.

After applying for learning license ,admin will verify the users detail and then he will update the status of users application form like completed ,partially completed , failed ,pending etc .this updated status will be visible to applicant in their profile by clicking in view license status.

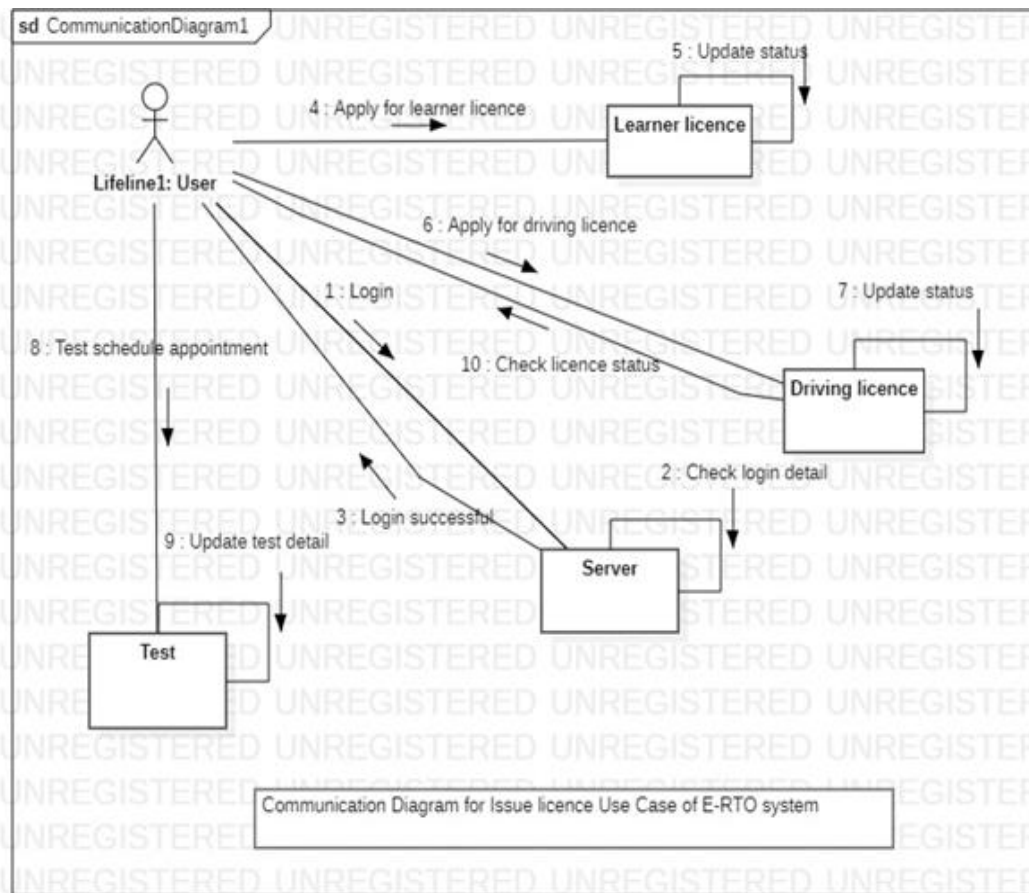
When admin validate all the details of learning license application ,user will be able to apply for driving license and then again same process will be followed by admin and learning license will get generated .this generated license can be downloaded by user.

## **1. View license list-**

**The admin here can view the list of license application by using its profile by login using his/her id and password .after user logged in one learning license and permanent license list will be visible to him , then admin can modify the status of license application or delete the application if any user has wrong information or any for any other reason. After status updation by admin .users can see their status and also download the license**

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## 1. NON FUNCTIONAL REQUIREMENTS

2.2.1 Security: The system must ensure the security of user data like personal information and login credentials

2.2.2 Performance: Response time for document verification and status check should be fast. System should handle large no of users.

2.2.3 Accessibility: The system should be available 24x7 with minimal downtime.

2.2.5 Integration: The system should integrate with OCR for document verification.

2.2.5 Usability: User interface should be intuitive and user friendly, ensure that user can easily navigate and interact with the system.

### 2.2.6 Other Requirements:

#### 1. Hardware Interfaces

**1) 4GB or more**

**2) Multi-core processor**

**3) Storage 120GB or more**

#### **Software Interfaces**

1) Front-end: HTML, CSS, JS

2) Back-end : Java EE- Spring Boot

3) Libraries: ReactJs

4) Editor: VS Code Editor, Spring Tool Suite(STS)

## **3. DESIGN**

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### 3.1 Database Design

The following table structures depict the database design.

**Table1: User Info**

| Key Type/<br>Constraint | Column<br>Name | Data Type | Length | Allow Null<br>(1=Yes;0=No) |
|-------------------------|----------------|-----------|--------|----------------------------|
| 1                       | UserID         | int       | 4      | 0                          |
| 1                       | email          | varchar   | 50     | 0                          |
| 0                       | First_name     | Varchar2  | 15     | 1                          |
| 0                       | Last_name      | Varchar2  | 15     | 1                          |
| 0                       | password       | Varchar2  | 200    | 0                          |
| 0                       | role           | enum      | -      | 1                          |
|                         |                |           |        |                            |

**Table2: Learning**

| Field               | type    | null | Key | default |  |
|---------------------|---------|------|-----|---------|--|
| Applicant id        | Int     | No   | PRI | null    |  |
| Aadhar No           | Varchar | No   | UNI | Null    |  |
| Appointment_date    | Date    | Yes  |     | Null    |  |
| Appointment_time    | Time    | Yes  |     | null    |  |
| Blood_group         | Varchar | Yes  |     | Null    |  |
| Created_at          | Varchar | Yes  |     | Null    |  |
| District            | Varchar | Yes  |     | Null    |  |
| dob                 | Date    | Yes  |     | Null    |  |
| Email               | Varchar | Yes  |     | Null    |  |
| First_name          | Varchar | Yes  |     | Null    |  |
| Gender              | Varchar | Yes  |     | Null    |  |
| Identification_mark | Varchar | Yes  |     | Null    |  |
| Landmark            | Varchar | yes  |     | Null    |  |
| Last_name           | Varchar | Yes  |     | Null    |  |
| Appointment_status  | Enum    | Yes  |     | Null    |  |
| Mobile_no           | Varchar | Yes  |     | Null    |  |
| Pincode             | Varchar | Yes  |     | Null    |  |
| State               | Varchar | yes  |     | Null    |  |
| Street              | Varchar | Yes  |     | Null    |  |
| Village             | Varchar | Yes  |     | null    |  |
| Written_test_flag   | Varchar | Yes  |     | Null    |  |

|         |     |     |  |      |  |
|---------|-----|-----|--|------|--|
| User_id | int | Yes |  | null |  |
|---------|-----|-----|--|------|--|

Table 3-Permanent-

| Field               |  | type    | null | Key | default |  |
|---------------------|--|---------|------|-----|---------|--|
| Applicant id        |  | Int     | No   | PRI | null    |  |
| Aadhar No           |  | Varchar | No   | UNI | Null    |  |
| Appointment date    |  | Date    | Yes  |     | Null    |  |
| Appointment time    |  | Time    | Yes  |     | null    |  |
| Blood_group         |  | Varchar | Yes  |     | Null    |  |
| Created_at          |  | Varchar | Yes  |     | Null    |  |
| District            |  | Varchar | Yes  |     | Null    |  |
| dob                 |  | Date    | Yes  |     | Null    |  |
| Email               |  | Varchar | Yes  |     | Null    |  |
| First_name          |  | Varchar | Yes  |     | Null    |  |
| Gender              |  | Varchar | Yes  |     | Null    |  |
| Identification_mark |  | Varchar | Yes  |     | Null    |  |
| Landmark            |  | Varchar | yes  |     | Null    |  |
| Last_name           |  | Varchar | Yes  |     | Null    |  |
| Appointment_status  |  | Enum    | Yes  |     | Null    |  |
| Mobile_no           |  | Varchar | Yes  |     | Null    |  |
| Pincode             |  | Varchar | Yes  |     | Null    |  |
| State               |  | Varchar | yes  |     | Null    |  |
| Street              |  | Varchar | Yes  |     | Null    |  |
| Village             |  | Varchar | Yes  |     | null    |  |
| Written_test_flag   |  | Varchar | Yes  |     | Null    |  |
| User_id             |  | int     | Yes  |     | null    |  |

**Table4: images**

| Field           | Type    | Null | key | Default | Extra |
|-----------------|---------|------|-----|---------|-------|
| User_id         | int     | no   | Pri | null    |       |
| Profile_picture | varchar | yes  |     | null    |       |

## E-R Diagram,Dataflow diagram and Class Diagram:

Go to Appendix A

## 4. CODING STANDARDS IMPLEMENTED

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### 1. Naming and Capitalization

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

| Identifier | Case                   | Examples                            | Additional Notes  |
|------------|------------------------|-------------------------------------|---|
| Class      | Pascal                 | Person, BankVault, SMSMessage, Dept | Class names should be based on "objects" or "real things" and should generally be <b>nouns</b> . No ‘_’ signs allowed. Do not use type prefixes like ‘C’ for class.               |
| Method     | Camel                  | getDetails, updateStore             | Methods should use <b>verbs</b> or verb phrases.  |
| Parameter  | Camel                  | personName, bankCode                | Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios. |
| Interface  | Pascal with "I" prefix | Disposable                          | Do not use the ‘_’ sign   |

|                                    |                                |                           |  |
|------------------------------------|--------------------------------|---------------------------|--|
| Property                           | Pascal                         | ForeColor,<br>BackColor   | Use a noun or noun phrase to name properties.                |
| Associated private member variable | _camelCase                     | _foreColor,<br>_backColor | Use underscore camel casing for the private member variables |
| Exception Class                    | Pascal with "Exception" suffix | WebException,             |  |

## Comments

1. Comment each type, each non-public type member, and each region declaration.
2. Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
3. Separate comments from comment delimiters (apostrophe) or // with one space.
4. Begin the comment text with an uppercase letter.
5. End the comment with a period.
6. Explain the code; do not repeat it.

## 5. TEST REPORT

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Another group called Linux did the testing and the report of the testing is given hereunder.  
**GENERAL TESTING:**

| SR-NO | TEST CASE                         | EXPECTED RESULT                                | ACTUAL RESULT | ERROR MESSAGE                              |
|-------|-----------------------------------|--|---------------|--|
| 1     | Register Page                     | Redirected to Next page                        | OK            | Nothing                                    |
| 2     | Login Page                        | Pop-up will come                               | Ok            | Please enter username and password again . |
| 3     | Reset login                       | Only users password will be reseted            | Ok            | Nothing                                    |
| 4     | Quick search of license           | Gives all license details                      | Ok            | Nothing                                    |
| 5     | License form filling              | All the fields should be filled for submission | Ok            | Nothing                                    |
| 6     | Checking login or not             | User is logged in or not                       | Ok            | Nothing                                    |
| 7     | Add person details for license    | Add informations according to type of license  | Ok            | Nothing                                    |
| 8     | Goto to license page              | Set added information about person             | Ok            | Nothing                                    |
| 9     | Add information in permanent form | Save this all data into license table          | Ok            | Nothing                                    |
| 10    | Admin verification                | status updated in users login                  | Ok            | Nothing                                    |
| 11    | View status                       | It shows the status in license application     | Ok            | Nothing                                    |

|    |                         |                                   |    |         |
|----|-------------------------|-----------------------------------|----|---------|
| 12 | Logout                  | It will logout from user profile. | Ok | Nothing |
|    | STATIC TESTING          |                                   |    |         |
| 13 | Commenting not followed | All Web Application               |    |         |



## 6. PROJECT MANAGEMENT RELATED STATISTICS

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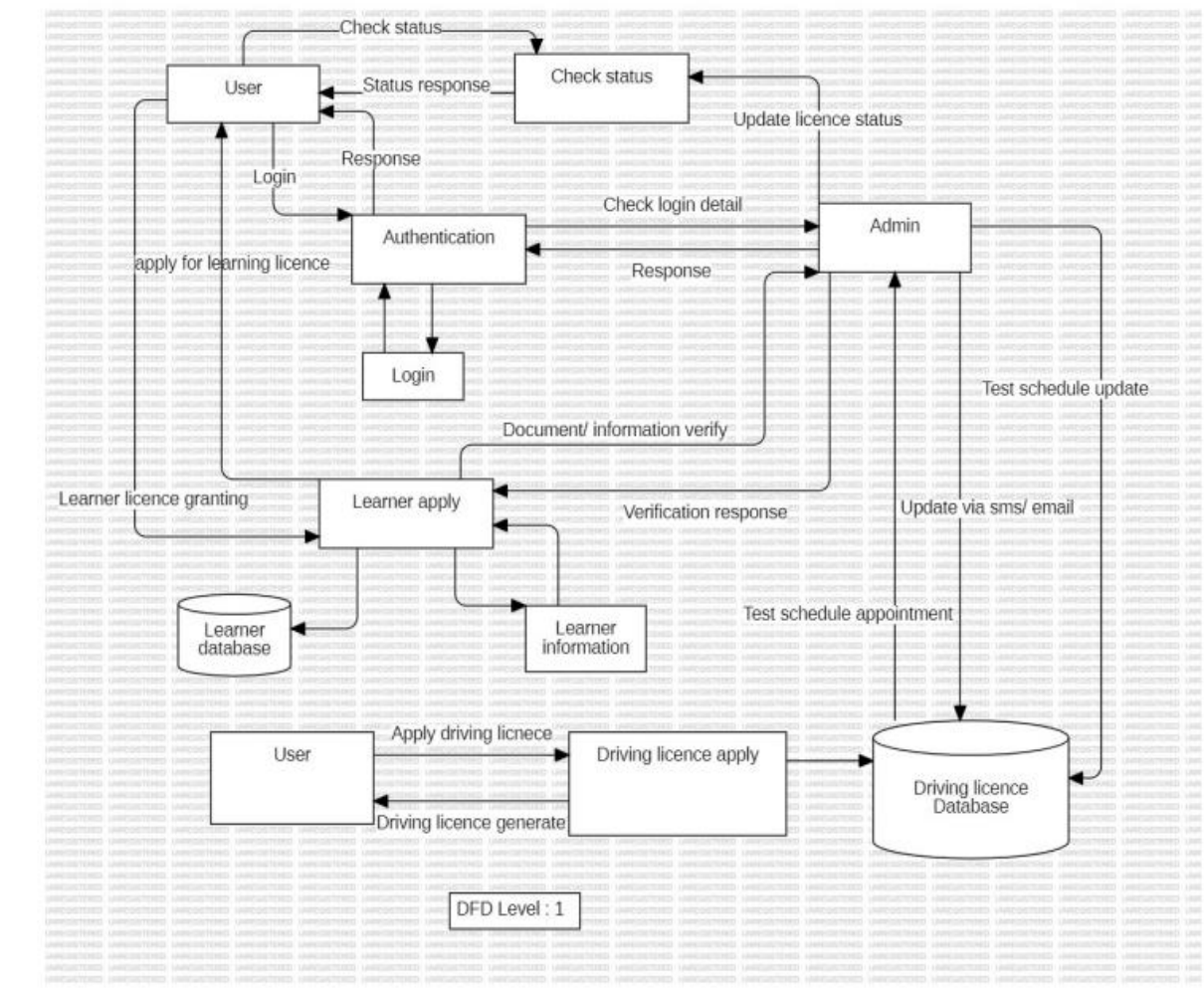
| DATE          | WORK PERFORMED   | SLC Phase                           | Additional Notes   |
|---------------|--|-------------------------------------|--|
| April 1,2025  | Project Allotment and User Requirements Gathering  | Feasibility Study                   | Our team met the client Mr. Nitinkudale (CEO, SIIT Pune) to know his requirements. |
| April 10,2025 | Initial SRS Document Validation And Team Structure Decided                                     | Requirement Analysis (Elicitation)  | The initial SRS was presented to the client to understand his requirements better  |
| April 21,2025 | Designing the use-cases, Class Diagram, Collaboration Diagram, E-R Diagram and User Interfaces | Requirement Analysis & Design Phase | Database Design completed  |
| May 8,2025    | Business Logic Component design Started  | Design Phase                        | -----  |
| May 20,2025   | Coding Phase Started   | Coding Phase                        | 70% of Class Library implemented.  |
| May 30,2025   | Implementation of Web Application and Window Application Started                               | Coding Phase                        | Class Library Development going on.  |
| June 7, 2025  | Off  | Off                                 | Off  |
| June 20, 2025 | Implementation of Web Application and Window Application Continued                             | Coding Phase and Unit Testing       | Class Library Modified as per the need.  |
| July 1, 2025  | Implementation of Web Application and Window Application Continued                             | Coding Phase and Unit Testing       | --   |

|                 |  |                                    |  |
|-----------------|--|------------------------------------|--|
| July 16, 2015   | After Ensuring Proper Functioning the Required Validations were Implemented          | Coding Phase and Unit Testing      | Module Integration was done by the Project Manager             |
| July 20 , 2025  | The Project was Tested by the respective Team Leaders and the Project Manager        | Testing Phase (Module Testing)     | --   |
| July 29, 2025   | The Project was Submitted to Other Project Leader of Other Project Group For Testing | Testing Phase (Acceptance Testing) | The Project of Other Team was Taken up by the Team for Testing |
| August 4, 2025  | The Errors Found were Removed  | Debugging                          | The Project was complete for submission                        |
| August 11, 2025 | Final Submission of Project  |                                    |  |

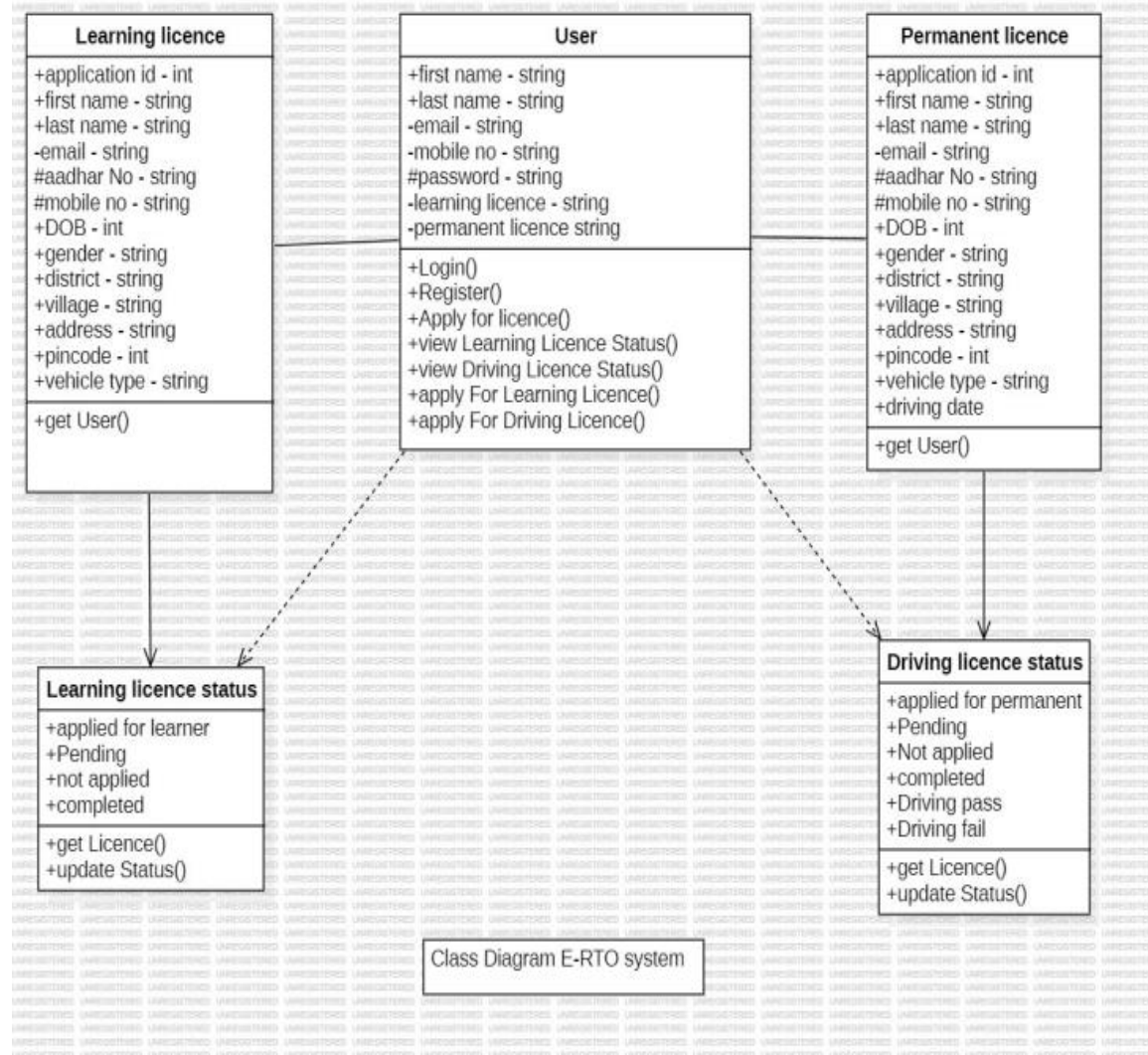
## Appendix A

### Entity Relationship Diagram

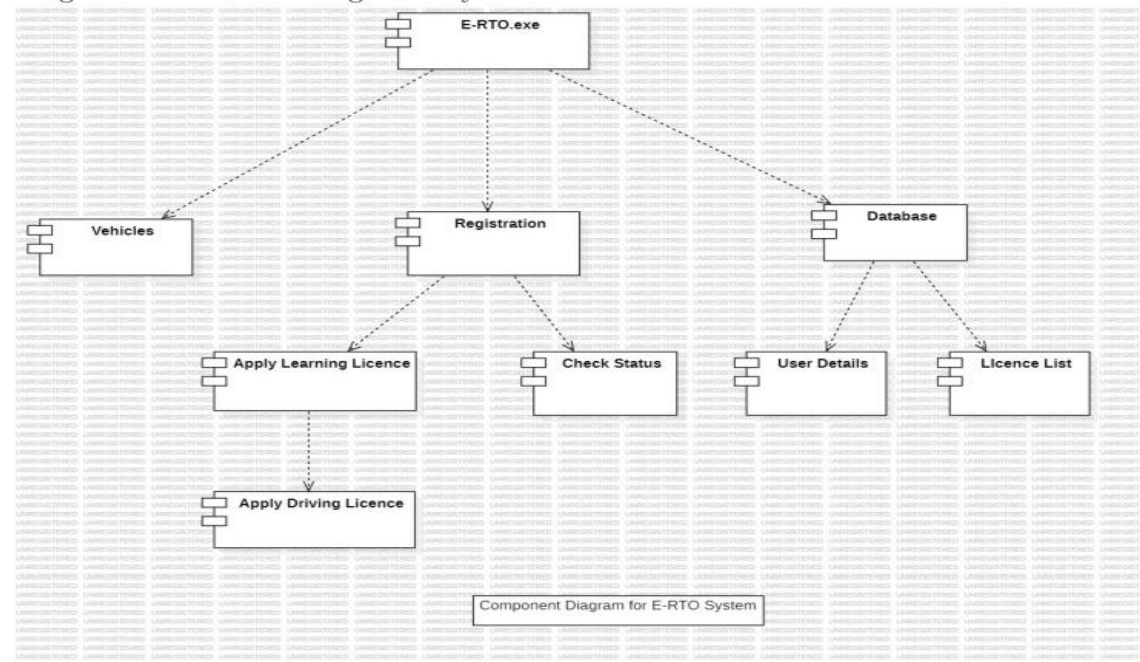
### Data Flow Diagram:



## Class Diagram

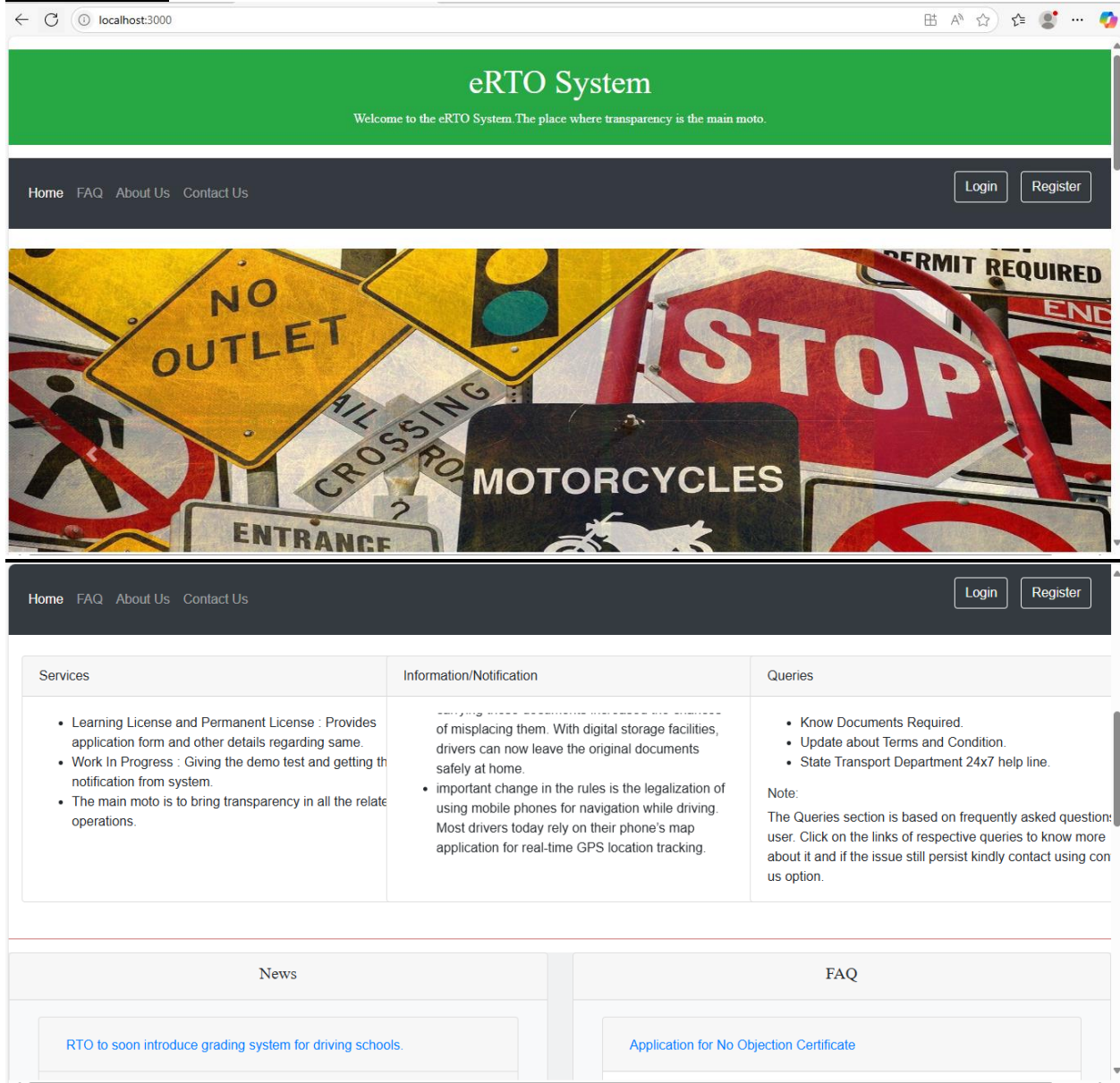


Component Diagram:



Appendix B

## Homepage:



## Login Page:

## Our Team

**Aditi Thosar**

Project Developer  
Sunbeam

**Rutuja  
Manglekar**

Project Developer  
Sunbeam

**Prathmesh  
Naraje**

Project Developer  
Sunbeam

**Ganesh Patil**

Project Developer  
Sunbeam



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## eRTO System

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

[Home](#) [FAQ](#) [About Us](#) [Contact Us](#)

### Login

Email Id :

Password:

Login

[Forgot Password](#) Not Registered ? [Create an account](#)

## User Registration:

eRTO System

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

[Home](#) [FAQ](#) [About Us](#) [Contact Us](#) [Login](#) [Register](#)

Register/SignUp

First Name

Enter First name

Last 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

## Forgot Password Page:

eRTO System

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

[Home](#) [FAQ](#) [About Us](#) [Contact Us](#) [Login](#) [Register](#)

Forgot Password

Email Id :

Enter email

Submit

Not Registered ? [Create an account](#)

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## User Profile Page for learning License:

# eRTO System

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

[Home](#) [License ▾](#) [Mock Test](#) [Status](#)

Welcome Rutuja

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 commisioner/deputy commisioner 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.

## User Profile Page for Permanant License:

## Permanent License

The faculty of online slot booking for test of completeness 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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## LicenseApplicationpage:

### eRTO System

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

[Home](#) [License](#) ▾ [Status](#)

[Log Out](#)

#### Apply For Learning License

First Name

Rutuja

Last Name

manglekar

Email Id :

rutujamanglekar2001@gmail.com



Aadhar No.

878788767678



Mobile No.

+919914432345



|  |   |
|--|---|
| <b>Choose Birth Date</b><br><input type="text" value="08/03/2007"/>  | <b>Gender</b><br><input type="text" value="FEMALE"/>                    |
| <b>Blood Group</b><br><input type="text" value="O-"/>                | <b>Identification Mark</b><br><input type="text" value="mole on hand"/> |
| <b>State</b><br><input type="text" value="Maharashtra"/>             | <b>District</b><br><input type="text" value="Pune"/>                    |
| <b>PinCode</b><br><input type="text" value="1111"/>                  | <b>Village/City</b><br><input type="text" value="Hinjewadi"/>           |
| <b>Landmark</b><br><input type="text" value="TCG"/>                  | <b>Street</b><br><input type="text" value="phase1"/>                    |
| <b>Test Date:</b><br><input type="text" value="09/11/2025"/>         | <b>Test Time</b><br><input type="text" value="01:30 PM"/>               |
| <b>Created At</b><br><input type="text" value="2025-8-10 16:35:21"/> |   |

|   |   |
|---|---|
| <input type="text" value="1111"/>   | <input type="text" value="Hinjewadi"/>                    |
| <b>Landmark</b><br><input type="text" value="TCG"/>   | <b>Street</b><br><input type="text" value="phase1"/>      |
| <b>Test Date:</b><br><input type="text" value="09/11/2025"/>  | <b>Test Time</b><br><input type="text" value="01:30 PM"/> |
| <b>Created At</b><br><input type="text" value="2025-8-10 16:35:21"/>  |   |
| <b>Upload Passport Size Photo:</b><br><input type="button" value="Choose File"/> Rutuja Photo.jpeg<br><input type="text" value="Upload Image"/> |   |
| <input type="button" value="Next"/>   |   |
| Already Applied For Learning License ? <a href="#">Click Here to Apply for Permanent</a>  |   |

**Admin Login Page (Learning License List):**

eRTO System

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

Learning License List

Permanent License List

Log Out

Searching.....

Learning License List

| applicantId | firstName | email                 | aadharNo     | mobileNo      | district   | learningStatus      | Action                              |
|-------------|-----------|-----------------------|--------------|---------------|------------|---------------------|-------------------------------------|
| 12401       | Rutuja    | aishurutu07@gmail.com | 999999666666 | +919914678964 | Ahmednagar | REJECTED            | <div>Update</div> <div>Delete</div> |
| 12451       | Rutuja    | aishu@gmail.com       | 987654321234 | +919914056743 | Dhule      | APPLIEDFORPERMANENT | <div>Update</div> <div>Delete</div> |
| 12551       | Shruti    | shrutika@gmail.com    | 456654321789 | +919987222222 | Amravati   | APPLIEDFORPERMANENT | <div>Update</div> <div>Delete</div> |

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## Admin Login Page (Permanent License List):

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

Learning License List

Permanent License List

Log Out

Searching.....

Permanent License List

| applicantId | firstName | email                     | aadharNo     | mobileNo      | district | permanentStatus | Action                              |
|-------------|-----------|---------------------------|--------------|---------------|----------|-----------------|-------------------------------------|
| 1           | Aishu     | aishu@example.com         | 123456789012 | 9876543210    | Pune     | COMPLETED       | <div>Update</div> <div>Delete</div> |
| 2           | Rutuja    | rutujamanglekar@gmail.com | 123456789045 | 9875543210    | Pune     | COMPLETED       | <div>Update</div> <div>Delete</div> |
| 12501       | Rutuja    | aishu@gmail.com           | 987654321234 | +919914056743 | Dhule    | BOOKED          | <div>Update</div> <div>Delete</div> |
| 12601       | Shruti    | shrutika@gmail.com        | 456654321789 | +919987222222 | Amravati | COMPLETED       | <div>Update</div> <div>Delete</div> |

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## 7.REFERENCES:

<http://www.google.com>

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