GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmedabad
Affiliated

Babaria Institute of Technology

A
Project Report
On

E-RTO

Prepared as a part of the requirements for the subject of
PROJECT - I
B. E. II, Semester – VI
(Computer Science and Engineering)

Submitted by:
Group:

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(Faculty Guide)

Dr. Avani R. Vasant
Head of the Department

(2021-2022)
Academic year

A

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On

E-RTO

Guided by
Ms. TEREDESAI RADHA RAVINDRA

Prepared by

Student Name	Enrollment Number
Anushka Girishbhai Mahagaonkar	200050131511
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Babaria Institute of Technology
Department of Computer Science and Engineering
At: Varnama, Ta: Vadodara, Dist: Vadodara, Pin: 391240

CERTIFICATE

      This is to certify that the project report entitled **E-RTO** is prepared and presented by **Anushka Mahagaonkar, Harshita Godavale, Rutvi Thakar, Bhakti Patel** bearing Enrolment Nos. **200050131511, 200050131525, 200050131521, 200050131510** respectively 3rd Year of **B.E (Computer Science & Engineering)** and their work is satisfactory.

.

Ms. TEREDESAI RADHA RAVINDRA   Dr. Avani R. Vasant

Guide   Head of Department

Babaria Institute of Technology
Department of Computer Science and Engineering
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Acknowledgement

We would like to express our sincere gratitude to all the people who have contributed their precious time and effort to help us. Without them it would have been a great difficulty for us to understand and complete the project.

We would especially like to thank our Project Guide Ms. Teredesai Radha Ravindra and Head of the Department Dr. Avani Vasant for the guidance, support, motivation, and encouragement throughout the period this work was carried out. Their readiness for consultation at all times, educative comment, concern, and assistance even with practical things have been invaluable.

We appreciate all the cooperation and help of the members in our group and respected faculty members.

ABSTRACT

With the importance of increase in population, this factor has result in growing number of vehicles which is creating problem for vehicle registration management and vehicle document verification. So "E-RTO" is a website developed for road transportation to facilitate the users to apply for various licenses and registrations. E-RTO provides the facility of applying license online, issuance of permanent license, generate challan, and receive payments against challan. It ensures data integrity and security and requires less man power. It also has online Quiz test where user can practice for exams with rules, videos related to driving process. E-RTO provides proper step by step line up towards application of license and its renewal. This system consists of two login one user and another admin. It can make the daily activities to run efficiently and provide fast response to retrieve and store the information.
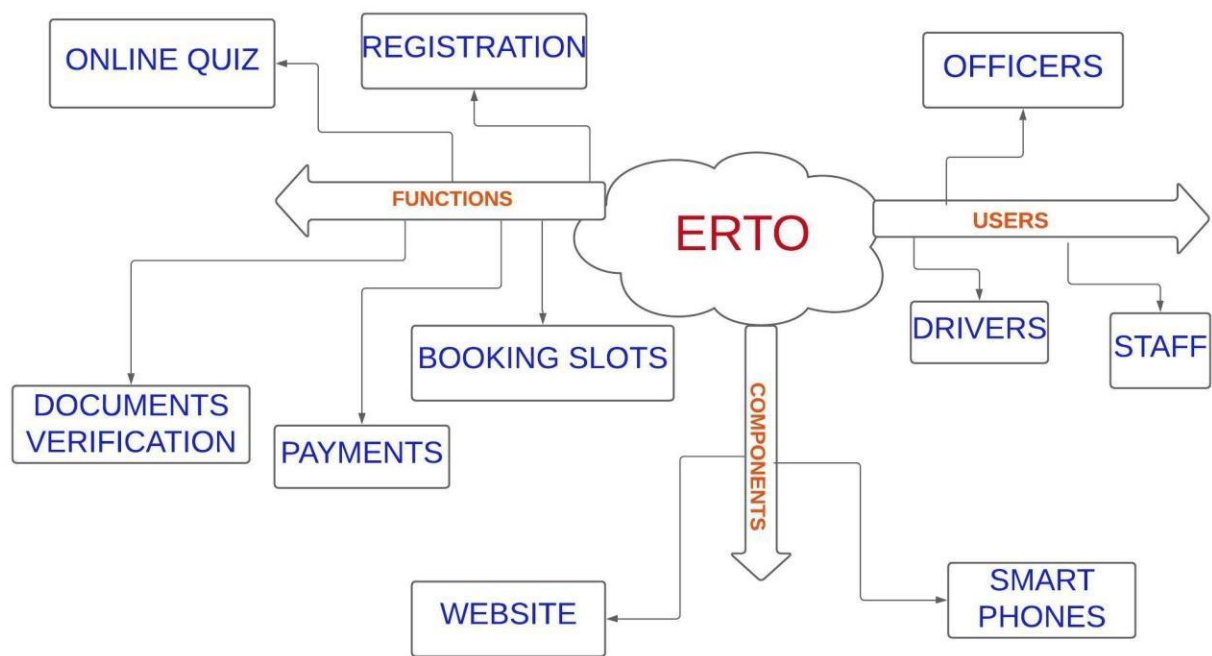
AEIOU CANVAS

ENVIRONMENT

- Weather (Sunny/Rainy/Cloudy)
- Traffic
- Day/ Night
- Noisy
- With light
- High wind

INTERACTION

- Asking for directions/address
- Seating arena/benches
- Discussion

OBJECTS

- Computers
- CCTV
- Mobile Phones
- Vehicles

ACTIVITIES

Officers	Visitors
- Checking Vehicles - Generating Fine - Checking License - Checking Insurance - Checking Vehicle Emission Information - Observing CCTV - Generating Challan	- Paying Fine - Driving Vehicles - Take Vehicle on rent - Giving Test

USERS

- Drivers were driving vehicles
- Traffic police were checking details
- Officers were fining
- Officers were generating E-Challan
- Officers were observing CCTV
- Drivers were paying fine
- Officers were operating computer system

Ideation Canvas

Project - **E-RTO**	Team - **328864**

People

- Drivers
- Traffic Police
- Officers

Activities

- Checking Vehicles, License, Insurance
- Generating Fine
- Checking vehicle emission Information
- Observing CCTV
- Generating Challan
- Paying fine

Situation/Context/Location

- Problem for Vehicle Registration
- Problem for Vehicle Document Verification
- Hard to give Quiz test

Props/Tools/Object/Equipment

- Map of RTO
- Agent information
- Exam track animation

Mind Map Canvas

ONLINE QUIZ

REGISTRATION

OFFICERS

FUNCTIONS

ERTO

USERS

DRIVERS

STAFF

BOOKING SLOTS

DOCUMENTS VERIFICATION

PAYMENTS

COMPONENTS

WEBSITE

SMART PHONES

Empathy Canvass

Design for:- **E-RTO**	**Design By:-** Rutvi Thakar, Anushka Mahagaonkar, Bhakti Patel, Harshita Godavale
Date	Version

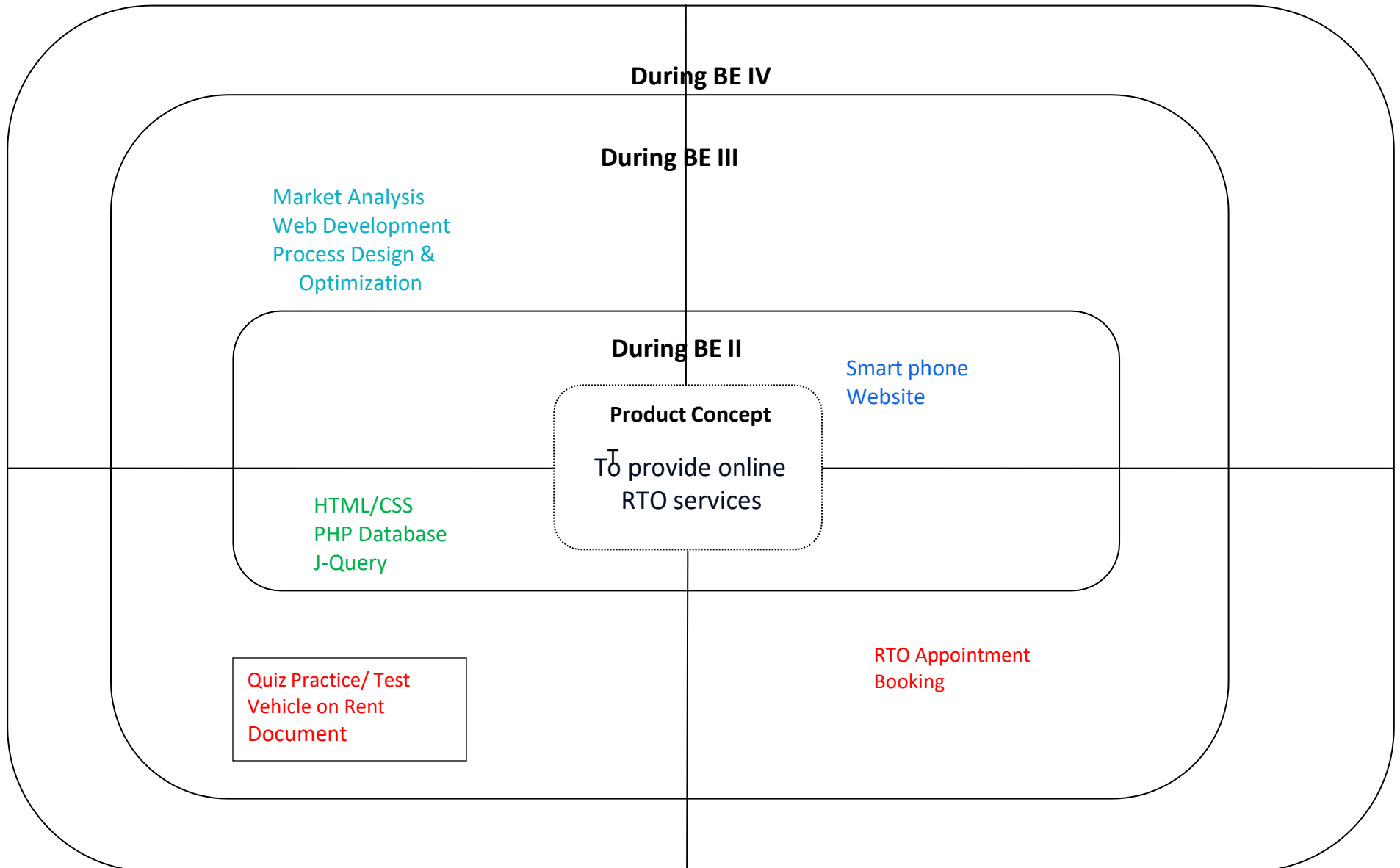| User	Stakeholders
•Drivers were driving vehicles •Traffic police were checking details •Officers were fining •Officers were generating E-Challan •Officers were observing CCTV •Drivers were paying fine •Officers were operating computer system	• Admin • RTO Manager

Activities
- Checking Vehicles
- Generating Fine
- Checking License
- Checking insurance
- Checking vehicle emission
- Information
- Observing CCTV
- Generating Challan
- Paying fine

Story Boarding

Happy

Whenever, we need to verify our vehicles documents we have to go RTO-office which becomes very time consuming and tedious work. So, our system provide function through which we can verified document of our vehicle online.

Happy
 To score best result in learning license quiz, in our system you can practice sample quiz question.

Sad
Whenever, we need to verify our vehicles documents we have to go RTO-office which becomes very time consuming and tedious work.

Sad
Whenever, we need agent, we have to go RTO-office to hire agents which waste our lot of time and tiresome work.

| Learning Need Matrix | Group id-   328864 | Date – |
| | Domain Name – E-RTO | Version- |

During BE IV

During BE III

Market Analysis
Web Development
Process Design &
    Optimization

During BE II

Smart phone
Website

Product Concept

To provide online
RTO services

HTML/CSS
PHP Database
J-Query

Quiz Practice/ Test
Vehicle on Rent
Document

RTO Appointment
Booking

Product Development Canvass – Project - **E-RTO** , Team id- **328864**

Purpose

- Easy to give test
- Easy in document verification
- Safety and security
- Easy to book appointment
- Get Agents Easily

Product Experience

- Helpful
- Easy to operate

Product Functions

- Payment
- Online Booking
- Animation video
- Document Recognition

Customer Revalidation

- Affordable
- Easy to Use

People

- Visitors
- Traffic Police
- Officers
- Staff

Product Features

- Upgradability
- Expandability

Components

- Smartphones
- Web Application

Reject, Redesign, Retain

- To improve graphics.
- For easy and quick use.
- Increase usability of resources.

Prototype

```
                              Booking  ──────►  Appoinment
                                ▲              Details
                                │                  │
                                │                  │
                                │                  ▼
    Start                   For              Vehicle on  ──►  Payments
      │                   verification          Rent              │
      │                       ▲                                    │
      ▼                       │                                    ▼
  User Login ─────────────────┤                                Feedback
                              │                                    │
                              │                                    │
                              ├──►  Information                     ▼
                              │     and Q/A                      Logout
                              │                                    │
                              ├──►  Agent                          ▼
                              │     Information                   Stop
                              │
                              └──►  Tutorials for
                                    practicing
```
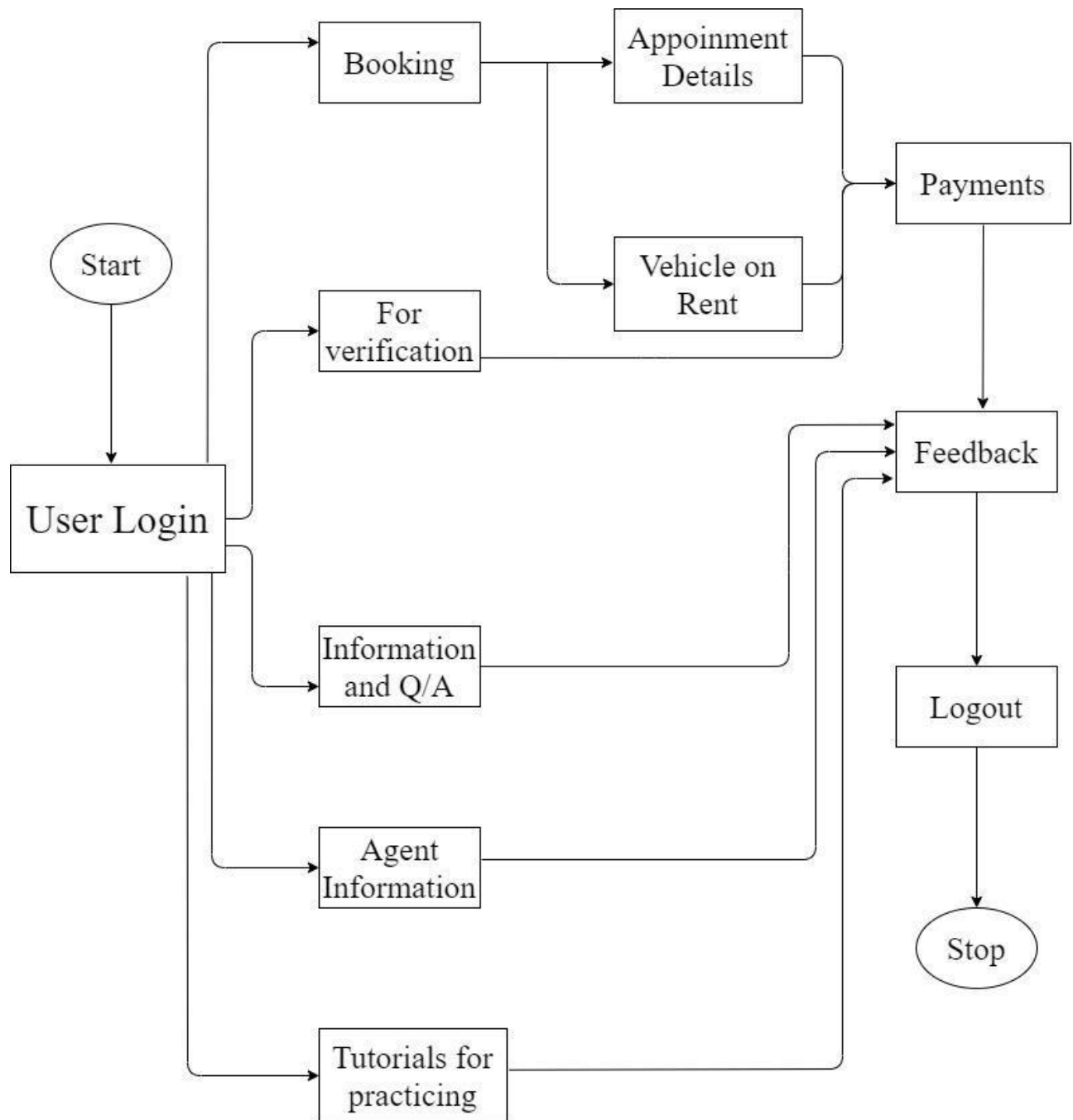
Implementation
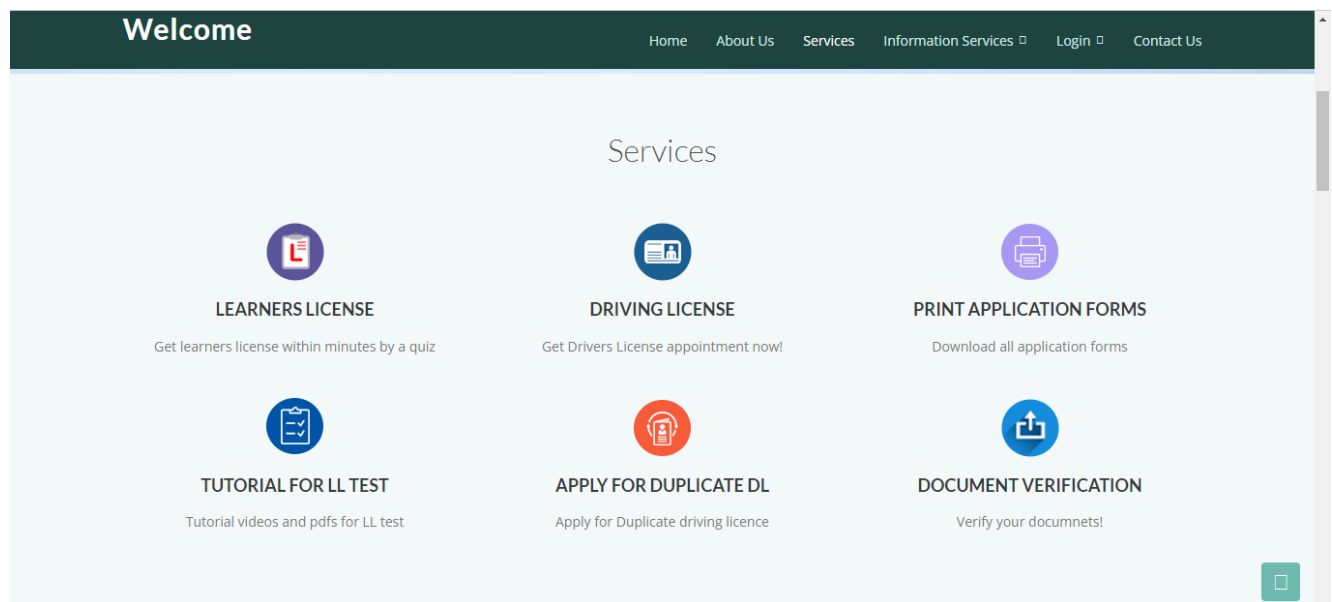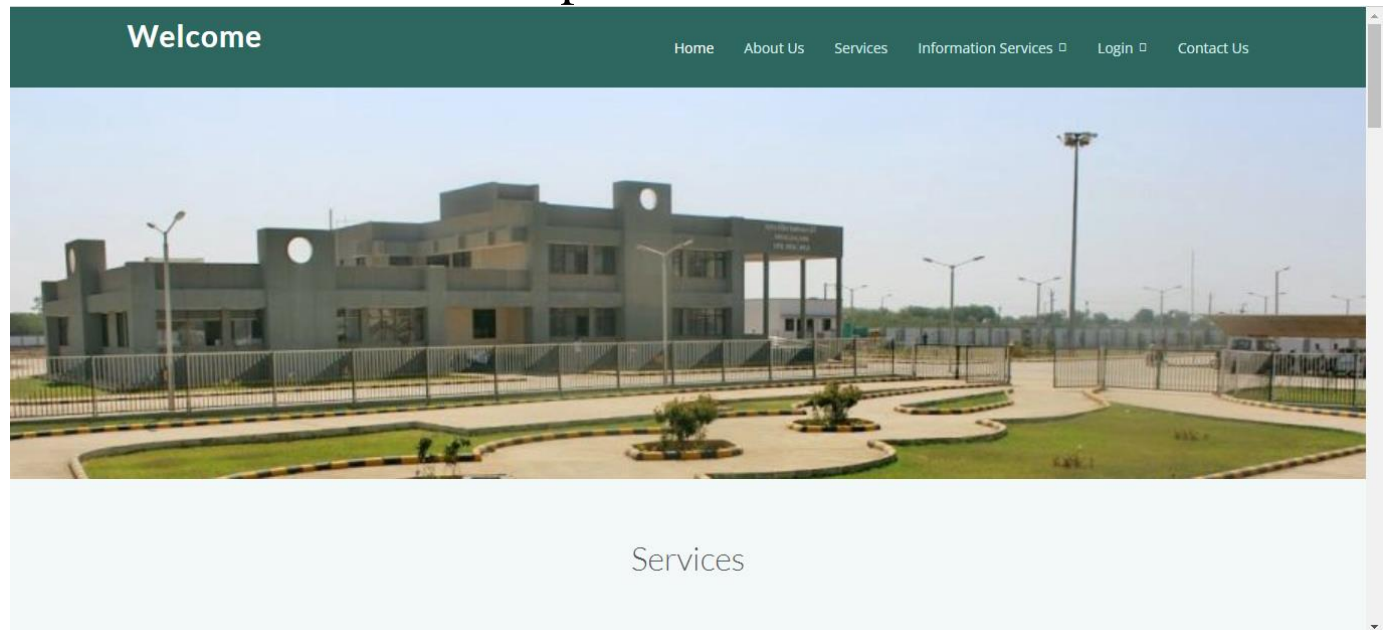
About Us

Our E-rto website developed for road transportation to facilitate the users to apply for various licenses and registrations. E-RTO provides the facility of applying license online,It ensures data integrity and security and requires less man power. It also has online Quiz test where user can practice for exams with rules, videos related to driving process.This system consists of two login one user and another admin. It can make the daily activities to run efficiently and provide fast response to retrieve and store the information.

□ Our Vision

To improve the quality of service delivery to the citizen and the quality of work environment of the RTOs.

□ Our Mission

To automate all Driving License related activities in transport authorities of country with introduction of smart card technology to handle issues

With steady steps in direction of achievement of its Vision, Mission and objectives , the ministry is progressing towards provision of improved service access to citizens with quality and efficiency in service delivery,

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Frequently Asked Questions

□   I Am 16 Years Old, Which Class Of Vehicle I Can Apply

□   What Is The Meaning Of Online Test For Learner's License?

□   Can I Give Exam From Home Or I Will Have To Go To The Concerned RTO?

□   Can I Apply For Driving License After The Learner License Has Expired?

□   Can Color Blind Applicant Apply For The Driving/Learner's License?

□   I want to apply for a Learner's License test. Is there any test involved?
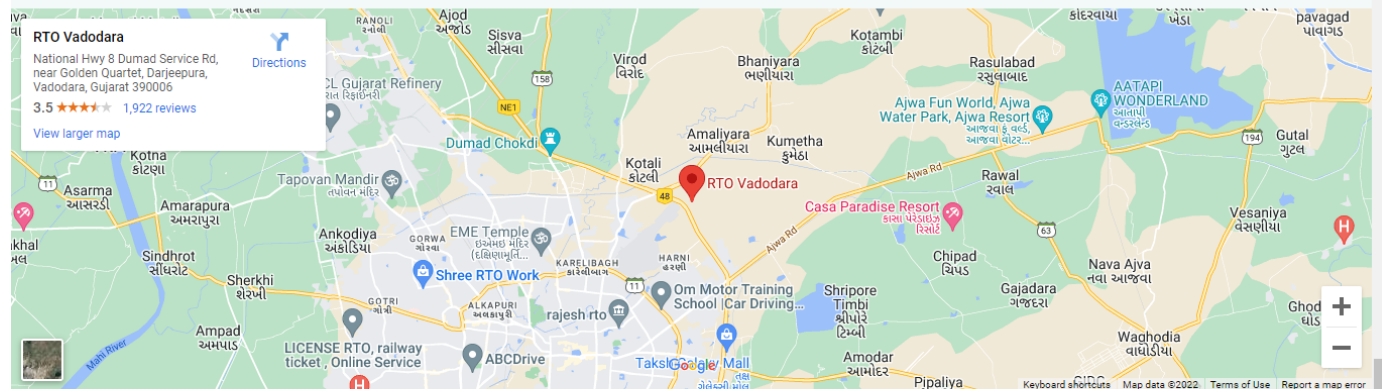
Contact Us

Feel free to contact us

E-RTO

Feel free to conatct us,We welcome any feedback. With steady steps in direction of achievement of its Vision, Mission and objectives , the ministry is progressing towards provision of improved service access to citizens with quality and efficiency in service delivery, transparency in the system and reduced workload for RTO staff.
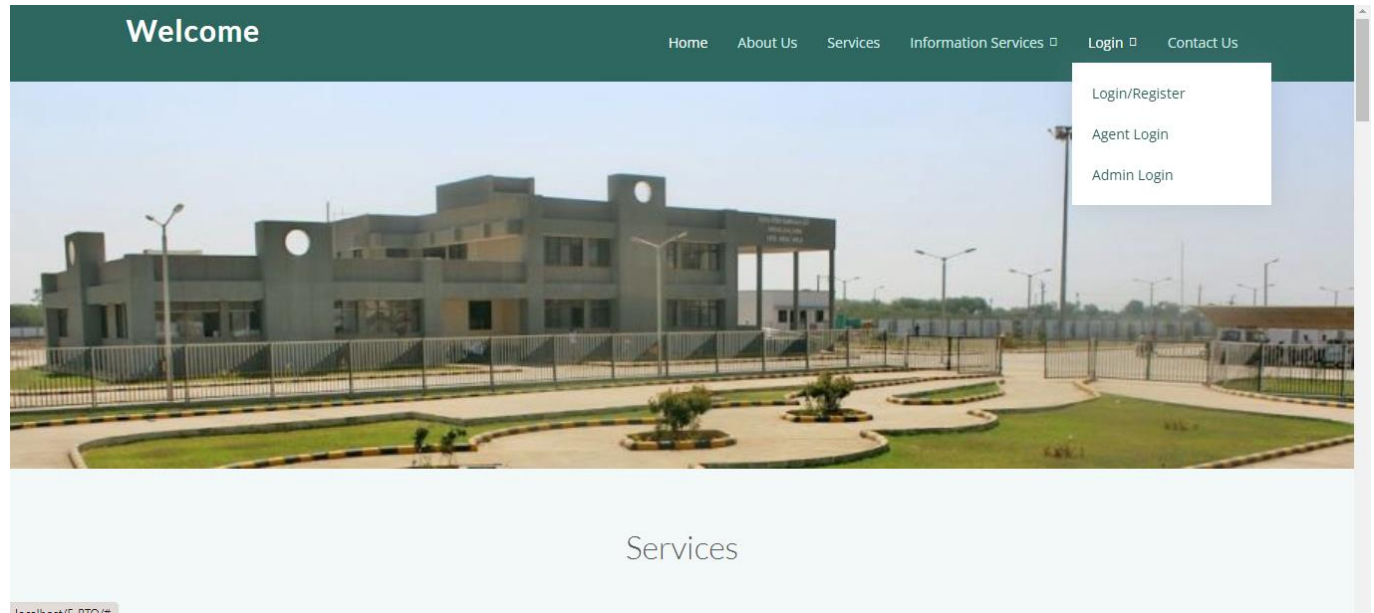
National Hwy 8 Dumad Service Rd, near Golden Quartet, Darjeepura, Vadodara, Gujarat 390006

ertovadodara.com

0265-888 8857

Your Name

Your Email

Subject

Message

Send Message

Send Message

RTO Vadodara

National Hwy 8 Dumad Service Rd, near Golden Quartet, Darjeepura, Vadodara, Gujarat 390006

3.5 ★★★☆☆   1,922 reviews

View larger map

Thank you for visiting us

Welcome

Home   About Us   Services   Information Services □   Login □   Contact Us

Login/Register

Agent Login

Admin Login

Services

Application form

First name *
anushka

Middle name
g

Last name
mahagaonkar

Email*
anushka21501@gmail.com

Address
fgvjk,hdsjfk,sdfh

Select your state
Gujarat

Select your city
Assam

○ **Male** ○ **Female**

Blood group
B+

DOB
06 - Apr - 2022

Phone Number
1234567899

Password
•••••

* required

Create

Browse | Structure | SQL | Search | Insert | Export | Import | Operations | Triggers

...ows 0 - 0 (1 total, Query took 0.0005 sec) [U_City: **ASSAM - ASSAM**]

☐ Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

...rt row: 0   Number of rows: 30   Headers every 100 rows

	U_id	U_FName	U_MName	U_LName	U_Gender	U_DOB	U_Address	U_City	U_State	U_BloodGroup	U_MobileNumber	U_Password	V_id	B_id
Copy ⊝ Delete	16	anushka	g	mahagaonkar	female	2022-04-06	fgvjk,hdsjfk,sdfh	assam	gujarat	B+	1234567899	12345	NULL	NULL

...ck All   With selected: ✎ Change   ⊝ Delete   Export

...rt row: 0   Number of rows: 30   Headers every 100 rows

...ults operations

Print view (with full texts) | Export | Display chart | Create view

Tutorials And Question Bank

Learning Liscence Question Bank

Q. NUMBER	QUESTION	IMAGE/SIGNAL	OPTION1	OPTION2	OPTION3	ANSWER
1	Near a pedestrian crossing, when the pedestrians are waiting to cross the road, you should		Sound horn and proceed	Slow down, sound horn and pass	Stop the vehicle and wait till the pedestrians cross the road and then proceed	3
2	The following sign represents..		Stop	No parking	Hospital ahead	1
3	You are approaching a narrow bridge, another vehicle is about to enter the bridge from opposite side you should		Increase the speed and try to cross the bridge as fast as possible	Put on the head light and pass the bridge	Wait till the other vehicle crosses the bridge and then proceed	3
4	The following sign represents..		Keep left	There is no road to the left	Compulsory turn left	3
5	When a vehicle is involved in an accident causinginjury to any		Take the vehicle to the nearest police station and report	Stop the vehicle and report to the police station	Take all reasonable steps to secure medical	3

Driving Test Video

		vehicle is about to enter the bridge from opposite side you should		bridge as fast as possible		the bridge and then proceed	
4	The following sign represents..		Keep left		There is no road to the left		Compulsory turn left	3
5	When a vehicle is involved in an accident causinginjury to any		Take the vehicle to the nearest police station and report		Stop the vehicle and report to the police station		Take all reasonable steps to secure medical	3

Driving Test Video

CONCLUSION

As stated in our proposed system our aim is to save time, of customers by providing them an online platform for RTO works. . We have provided the facility for online booking for issuing licenses, driving test and document verification. It also provides information regarding RTO services.