

DRIVING LICENSE CANCELATION SYSTEM

CS6308- JAVA PROGRAMMING

MINI PROJECT:-

TEAM MEMBERS:

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PROBLEM STATEMENT

The violation of road safety rules are increasing day by day. People don't care about the traffic laws enforced by the government. And some people use the road transport for some illegal activities. Road accidents take place due to some inept drivers. The judiciary department is already taking care of cancellation or suspension of driving license for the above mentioned cases. But it is a manual process and it consumes more time. It also takes a lot of procedural steps. Manual error is a concern. Manual errors are common in such a complex system. Another concern is the maintenance of data. It is a hierarchic process and the process are inter related to each other (completion of one process lead to the initiation of another process). The above mentioned statement refers to the attributes of complexity. This project provides solution for the problems mentioned in this paragraph.

DRIVING LICENSE CANCELATION SYSTEM

RTO officer plays a major role in the system. RTO officer creates new license entry, update license and cancels the license on certain condition. The license will have merit points added to them. If the license holder involves in breaking of laws or involve in any of the activities against the law then the traffic police department files a case against the license holder. The case history is added to the database. The system automatically checks the data base and based on the section of case history the system detects the merit points from the license. Then the RTO officer cancels the license (deletes the license entry).

Java concepts used in the system

- Jframe class acts as a super class for other classes in the license cancelation system.(inheritance).

- JDBC (java Database Connectivity) is used to connect to the MYSQL database and store data.
- Every class implements an Inbuilt interface called as ActionListener to sense the user activities in GUI.
- Java swing provides a GUI (graphical user interface) which helps the users to easily access the system.

Outcomes of the System

- ❖ RTO officer can handle the license records with ease.
- ❖ Automates the process of cancelling license when the license holder involve in any activities that are against law.
- ❖ The system follows a merit based process.
- ❖ Helps the judiciary department to directly enforce the punishment without following the manual process.

Front end: Java - Swing, AWT.

Back end: MySql, JDBC.

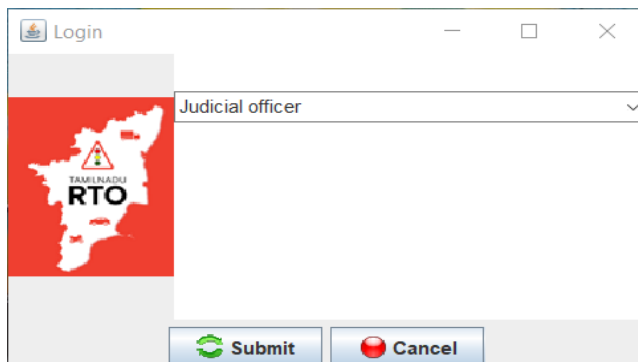
Classes used in project:

1. Preindex.java
2. connection.java
3. AdminLogin.java
4. RTOlogin.java
5. JOlogin.java
6. LicenseHolderLogin.java
7. Admin.java
8. RTO.java

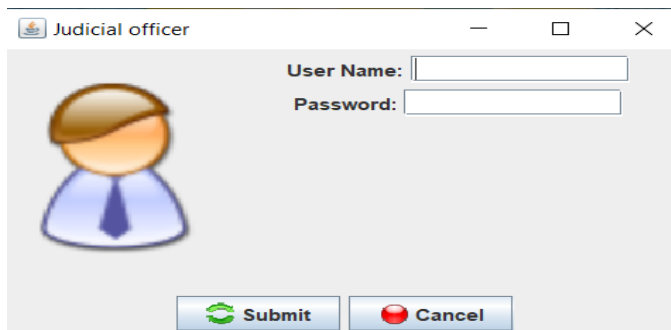
9. JO.java
10. LicenseHolder.java
11. New_RTO.java
12. New_JO.java
13. Del_RTO.java
14. Del_JO.java
15. New_License.java
16. Update_License.java
17. New_Merits.java
18. Update_Merits.java
19. Cancel_license.java
20. AddCase.java
21. EditCase.java
22. View_License.java

Screenshots of the input and output:

Page for selecting the login for different users

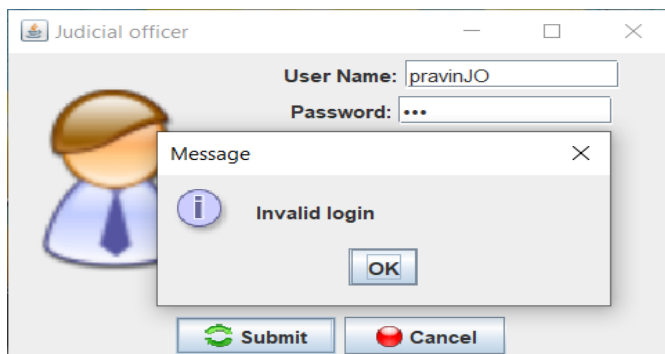


Judicial officer login



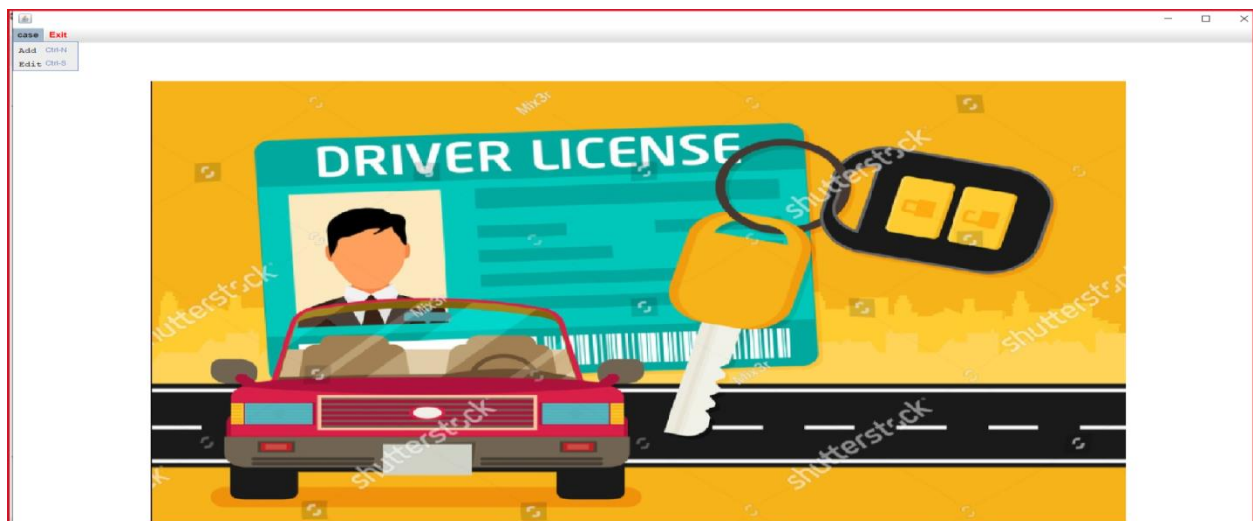
A screenshot of a web application window titled "Judicial officer". On the left is a cartoon icon of a person in a blue shirt and tie. To the right are two input fields: "User Name:" and "Password:". Below these fields are two buttons: "Submit" (with a green circular arrow icon) and "Cancel" (with a red circle icon).

Message displaying invalid login for entering wrong user ID or password

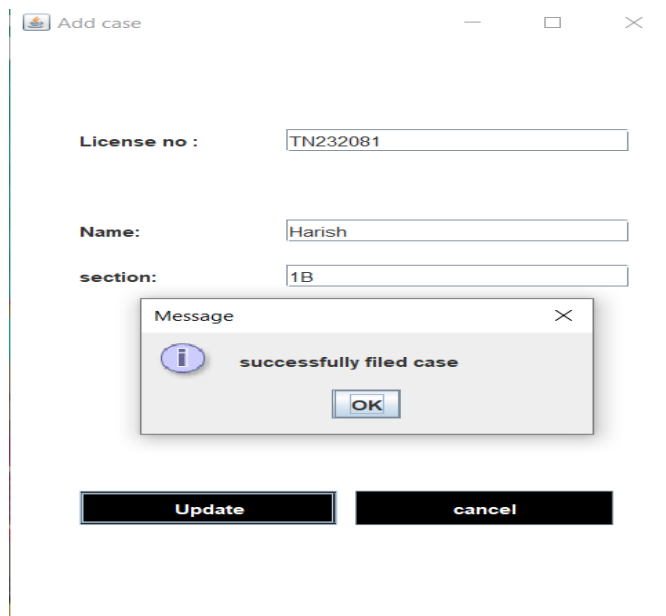


A screenshot of the "Judicial officer" login window. The "User Name" field contains the text "pravinJO" and the "Password" field contains three dots. A modal message box is overlaid in the center. The message box has a title bar "Message" and a close button. It contains an information icon (i), the text "Invalid login", and an "OK" button. The "Submit" and "Cancel" buttons are visible at the bottom of the login window.

Default page for judicial officer. It has functionalities to add or edit case on license holder and logout.

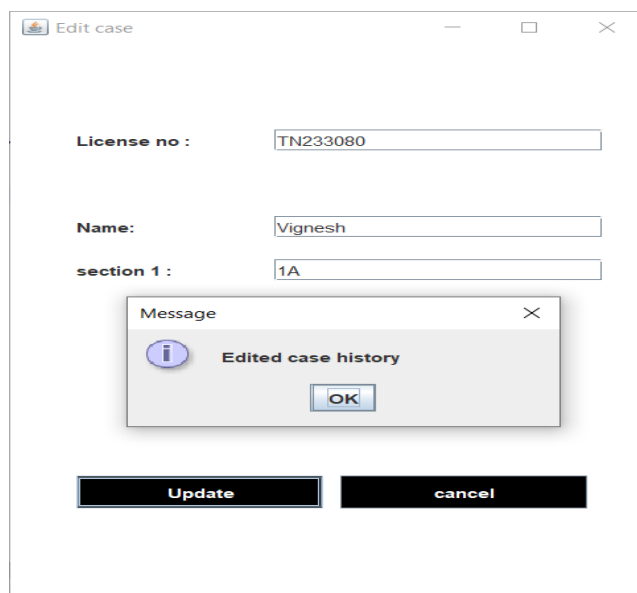


Filled case by entering the required details



The screenshot shows a window titled "Add case" with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, there are three input fields: "License no :" with the value "TN232081", "Name:" with the value "Harish", and "section:" with the value "1B". Below these fields is a "Message" dialog box with a close button (X). The message box contains an information icon (i) and the text "successfully filed case", with an "OK" button below it. At the bottom of the "Add case" window, there are two buttons: "Update" and "cancel".

The case history will be edited when we enter required details.



The screenshot shows a window titled "Edit case" with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, there are three input fields: "License no :" with the value "TN233080", "Name:" with the value "Vignesh", and "section 1 :" with the value "1A". Below these fields is a "Message" dialog box with a close button (X). The message box contains an information icon (i) and the text "Edited case history", with an "OK" button below it. At the bottom of the "Edit case" window, there are two buttons: "Update" and "cancel".

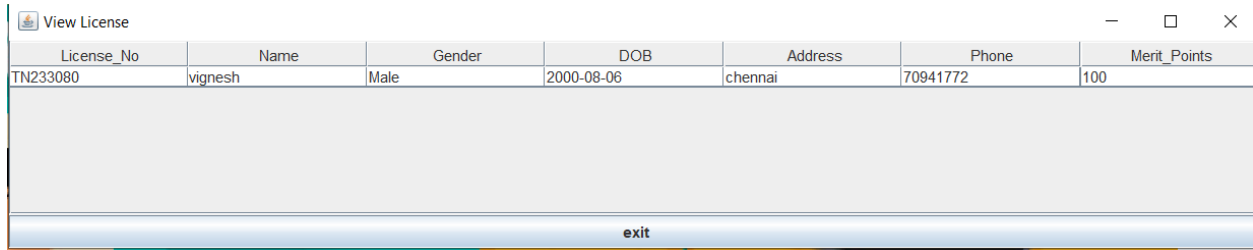
Default page for license holder. It allows the license holder to view their information and merit points.



The license holder can view their details by entering the right credentials.

A screenshot of a web application window titled 'License holder login'. The window has a title bar with a small icon, the text 'License holder login', and standard window controls. The main content area has a light gray background. On the left is a cartoon icon of a person with a brown head and a blue shirt. To the right of the icon are two input fields. The first is labeled 'License No:' and contains the text 'TN233080'. The second is labeled 'Password:' and contains a series of dots. Below these fields are two buttons: 'Submit' with a green circular arrow icon and 'Cancel' with a red circular arrow icon.

The license holder's detail is displayed.

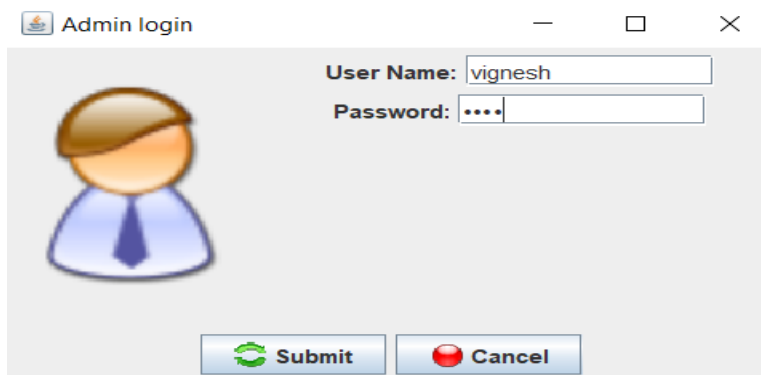


The screenshot shows a window titled "View License" with a table containing the following data:

License_No	Name	Gender	DOB	Address	Phone	Merit_Points
TN233080	vignesh	Male	2000-08-06	chennai	70941772	100

Below the table is an "exit" button.

Admin login page




The screenshot shows an "Admin login" window. It features a user icon on the left. On the right, there are input fields for "User Name" (containing "vignesh") and "Password" (masked with "****"). Below these fields are "Submit" and "Cancel" buttons.

Default page for admin. The functionalities provided for the admin is to add or delete RTO officer and Judicial officer.




A new RTO officer ID is created.

 New RTO

Name	Bharath
Gender	Male
Age	35
Office ID	TN23
Username	BharathRTO
Password	2018103080
Phone	

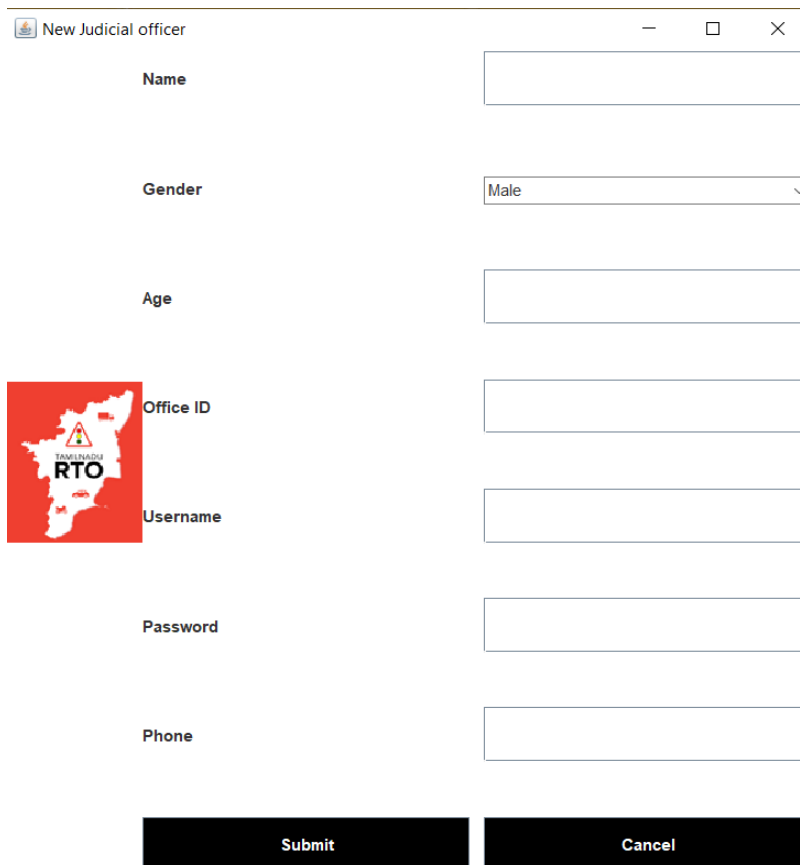
Message

 **RTO ID Created**

Submit
Cancel

Deleted the RTO officer entry by entering the ID.

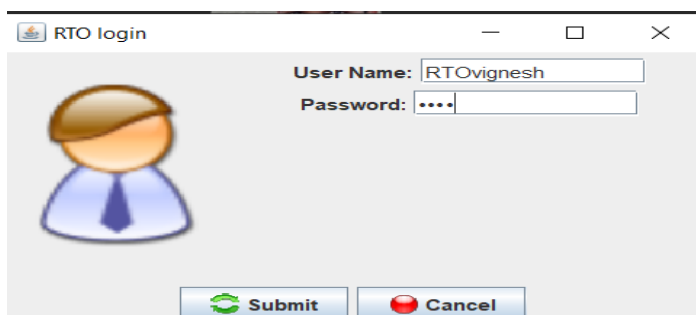
By entering the required details an entry for judicial officer can be created.



The screenshot shows a window titled "New Judicial officer" with a standard Windows title bar (minimize, maximize, close buttons). On the left side of the window is a red square logo containing a white map of Tamil Nadu with a yellow triangle and the text "TAMILNADU RTO". The form contains the following fields and controls:

- Name:** A text input field.
- Gender:** A dropdown menu with "Male" selected.
- Age:** A text input field.
- Office ID:** A text input field.
- Username:** A text input field.
- Password:** A text input field.
- Phone:** A text input field.
- Buttons:** Two black buttons at the bottom, labeled "Submit" and "Cancel".

Login page for the RTO officer.



The screenshot shows a window titled "RTO login" with a standard Windows title bar. On the left side is a cartoon illustration of a person with a brown head and a blue shirt with a tie. The form contains the following fields and controls:

- User Name:** A text input field containing the text "RTOvignesh".
- Password:** A text input field with four dots (password mask).
- Buttons:** Two buttons at the bottom: a green "Submit" button with a circular arrow icon and a red "Cancel" button with a stop sign icon.

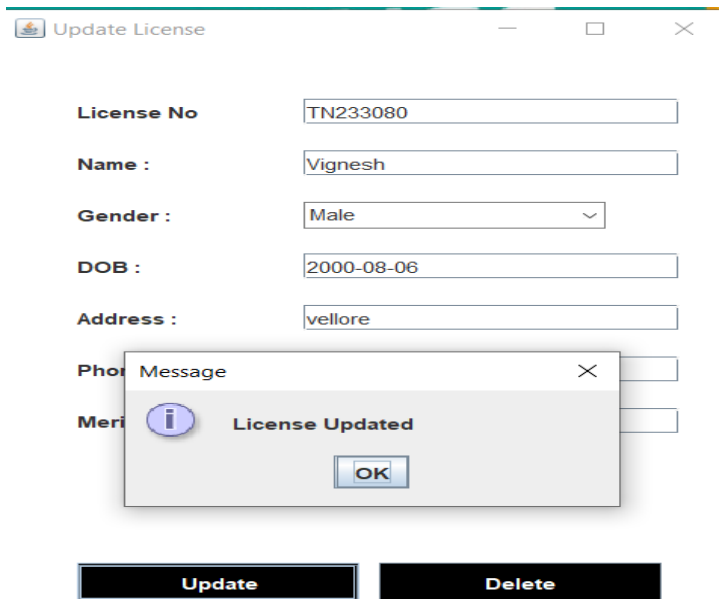
Home page for RTO officer. RTO officer can add, update or cancel license. The RTO officer can also alter the merit values and can view the license entries which have merit points less than the threshold points.



License is created by entering the required details.

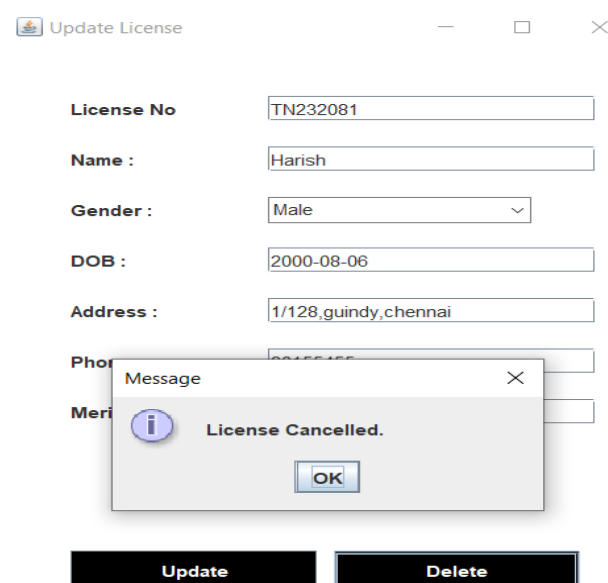
A screenshot of a 'New License' form. The form contains the following fields: 'License No' with the value 'TN233082', 'Name' with the value 'Ashwath', 'Gender' with a dropdown menu showing 'Male', 'DOB (YYYY-MM-DD):' with the value '2001-05-22', 'Address' with the value 'velachery, chennai-', and 'Phone:'. To the left of the form is a red square icon with a white triangle and the text 'RTO'. At the bottom of the form are two buttons: 'Submit' and 'Cancel'. A 'Message' dialog box is overlaid on the form, displaying an information icon, the text 'License created', and an 'OK' button.

The license detail is updated.



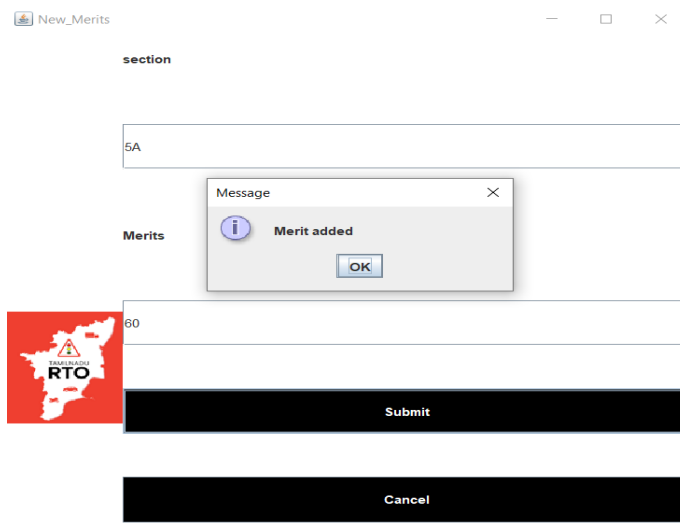
The screenshot shows a web application window titled "Update License". It contains a form with the following fields: "License No" (TN233080), "Name :" (Vignesh), "Gender :" (Male), "DOB :" (2000-08-06), "Address :" (vellore), "Phone No" (partially visible), and "Meri" (partially visible). A modal message box is displayed in the center, titled "Message", with an information icon and the text "License Updated". Below the form are two buttons: "Update" and "Delete".

License is cancelled by entering the requierd details.



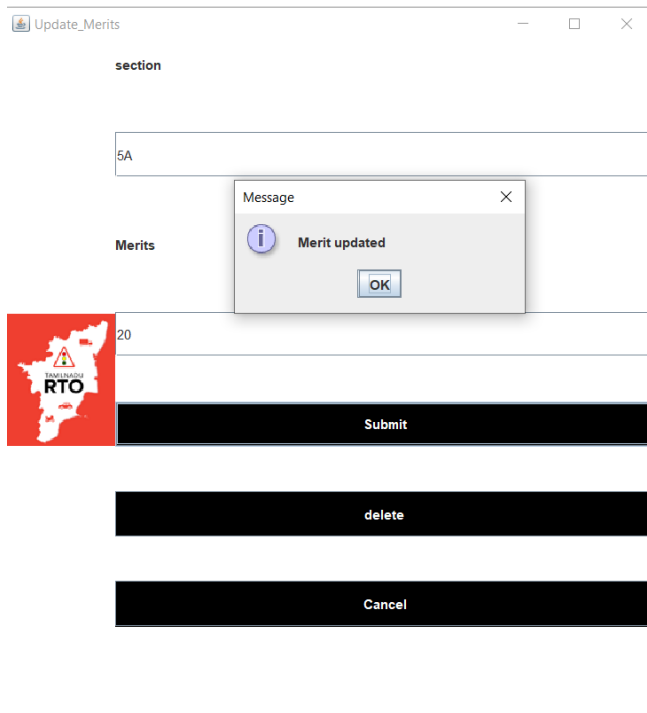
The screenshot shows the same "Update License" form, but with different data: "License No" (TN232081), "Name :" (Harish), "Gender :" (Male), "DOB :" (2000-08-06), "Address :" (1/128,guindy,chennai), "Phone No" (partially visible), and "Meri" (partially visible). A modal message box is displayed in the center, titled "Message", with an information icon and the text "License Cancelled.". Below the form are two buttons: "Update" and "Delete".

New merit is created for the section.



The screenshot shows a web application window titled "New_Merits". It contains a form with a "section" field set to "5A" and a "Merits" field set to "60". A red sidebar on the left features a map of Tamil Nadu and the text "TAMILNADU RTO". A modal message box is displayed in the center, stating "Message" and "Merit added" with an "OK" button. At the bottom of the form are "Submit" and "Cancel" buttons.

Already existing merit is altered.



The screenshot shows a web application window titled "Update_Merits". It contains a form with a "section" field set to "5A" and a "Merits" field set to "20". A red sidebar on the left features a map of Tamil Nadu and the text "TAMILNADU RTO". A modal message box is displayed in the center, stating "Message" and "Merit updated" with an "OK" button. At the bottom of the form are "Submit", "delete", and "Cancel" buttons.

Existing section and its merit is deleted.

[illegible]

RTO views the license holders with merit points less than 50. And by pressing the cancel license option he can cancel the license.

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