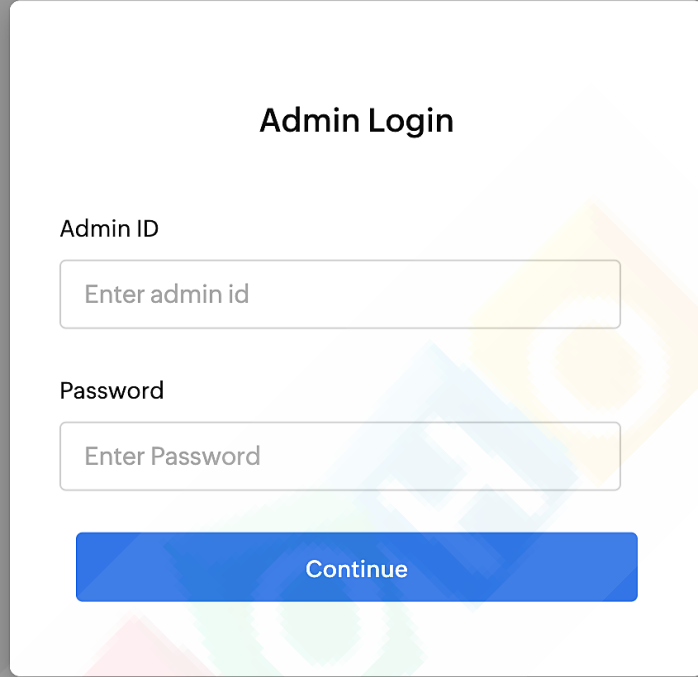


Toll Management Application - Interview Task

Please read the instructions given in the document completely before starting the task.

Admin Pages :

Admin Login

A screenshot of the Admin Login form. The form is titled "Admin Login" and contains two input fields: "Admin ID" with a placeholder "Enter admin id" and "Password" with a placeholder "Enter Password". Below the fields is a blue "Continue" button. The form is enclosed in a grey border.

Admin Login

Admin ID

Enter admin id

Password

Enter Password

Continue

Note : There is no signup for admin. Create a default account for admin.
(Use **login id** : admin , **password** : admin)

- Admin ID and Password are required to login.If any of the fields are missing, show error message around the input box.
- Show user doesn't exist error message when an invalid id is given as input.
- If password mismatches, show `Invalid Password`

Admin Toll List Page

Toll Management Application

Hello, Admin
[Logout](#)

Toll List |

[Add new toll](#)

TOLL NAME	CAR/JEEP/VAN	LCV	TRUCK/BUS	HEAVY VEHICLE
Chengalpattu	60/90	95/145	205/305	320/480
Kappalur	75/115	125/185	260/390	400/600
Krishnagiri	70/105	110/165	235/350	365/550



- Initially, there will be no tolls available. 'No Tolls available' message should be shown in the UI.
- Admin Toll page should have the following functionalities:
 - Adding a new Toll
 - Searching a toll by toll name
 - Deleting a toll.
- For each toll, the fare amount for single and return journey for all types of vehicles should be shown.
- Eg : Car/Jeep/Van - 60/90. For single journey : Rs.60 and return journey : Rs.90.
- If a vehicle returns to the same toll within 1 hour , discounted toll rate (ie., Return journey rate: Rs.90 taken for tariff calculation) should be applied for that toll entry alone.Else single journey rate will be taken for return journey tariff calculation.
- Search a toll option should show 'Toll not found' in the case of no such tolls available.

Admin Add New Toll Page

Toll Management Application

Hello, Admin
Logout

Toll List | Search a toll

TOLL NAME
Chengalpattu
Kappalur
Krishnagiri

Add new toll

Toll Name*

Vehicle fare details*

Select vehicle type ▾	Single Journey	Return Journey
Select vehicle type ▾	Single Journey	Return Journey
Select vehicle type ▾	Single Journey	Return Journey
Select vehicle type ▾	Single Journey	Return Journey

Add details

HEAVY VEHICLE
320/480
400/600
365/550


Add new toll


- On clicking 'Add new toll' , a dialog should appear, which will allow the admin to add new toll locations.
- For every new toll location, a toll name and a vehicle fare list is required.
- For every vehicle fare entry, there must be a vehicle type, single journey rate and return journey rate.
- Required vehicle types :
 - Car/Jeep/Van
 - LCV
 - Truck/Bus
 - Heavy vehicle
- Admin should be able to search a toll by toll name using search bar. Results must be shown as entries in the original table, if no entries are found 'No Tolls Found' must be displayed.

Admin Details Page :

Toll Management Application

Hello, admin
[Logout](#)

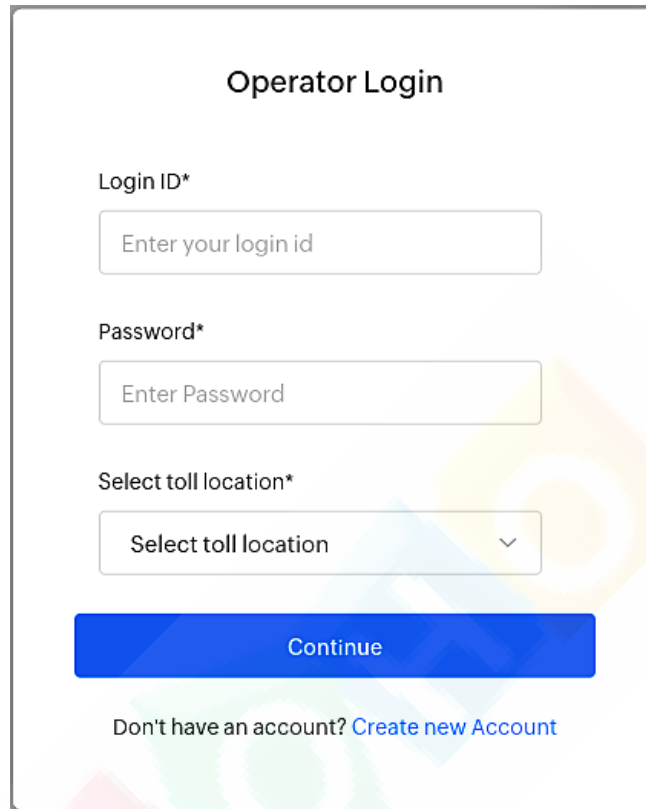
Toll List | 

VEHICLE		VEHICLE NUMBER	DATE/TIME	TOLL NAME	TARIFF
Car/Jee	All 	TN24AQ4644	09/09/2022, 16:43:48	Chengalpattu	60
Car/Jee	Kappalur				
Car/Jee	Chengalpattu	TN19QQ1234	09/09/2022, 15:30:34	Kappalur	75
Heavy V	Krishnagiri	TN24AA1234	09/09/2022, 12:12:34	Kappalur	400

- Admin Details page shows toll logs of all available toll locations.
- Following functionalities to be implemented:
 - Filter entries by city name
 - Search a vehicle by vehicle number
- New toll name should be added to the filter list once a new toll created by the admin.
- Search By vehicle number option should show 'Vehicle not found' when there is no match for given vehicle number.

Operator Pages :

Operator Login Page



The image shows a mockup of the Operator Login page. It features a white background with a light gray border. At the top, the title "Operator Login" is centered. Below the title, there are three input fields: "Login ID*" with a placeholder "Enter your login id", "Password*" with a placeholder "Enter Password", and "Select toll location*" with a placeholder "Select toll location" and a dropdown arrow. Below these fields is a blue "Continue" button. At the bottom, there is a link "Don't have an account? [Create new Account](#)".

- Login Id and Password fields must be handled with appropriate validation on client side.
- Toll location is a mandatory field and should contain all the toll location names that the admin has created.
- An operator can login if and only if the admin added some toll locations. If no toll location is available in the list, disable the login button.
- If one or more toll locations are available in the select toll location list, enable the login button.

Signup Page

Sign Up

Login ID

Id already exist

Password

Signup

- All fields must have appropriate validation handling.
- Password must contain 8 characters.
- Login id should not already exist for operators.

Note : There is no signup for admin. Create a default account for admin.
(Use **login id** : admin , **password** : admin)

Toll Management - Operator Home Page

The screenshot displays the 'Toll Management Application' interface. At the top right, it says 'Hello, username' with a 'Logout' link. On the left, there's a 'Toll List' section with a search bar labeled 'Search vehicle'. Below this, a table lists vehicle types: 'Car/Jeep/Van' and 'Heavy Vehicle'. A modal titled 'Add new entry' is centered on the screen. It contains three input fields: 'Select vehicle type*' (a dropdown menu currently showing 'Car/Jeep/Van'), 'Vehicle Number*' (a text input with placeholder 'Enter your login id'), and 'Tariff*' (a text input with placeholder 'Tariff amount'). A blue 'Add Entry' button is at the bottom of the modal. In the background, a table with columns 'NAME' and 'TARIFF' is partially visible, showing entries with values like '75' and '400'.

- On logging in, the operator home page must contain a table with fields
 - Vehicle Type : String
 - Vehicle Number : String
 - Time : Eg : 10:18:43 AM
 - Tariff : Number
- Following functionalities should be implemented :
 - Adding new vehicle to the toll list by clicking "Add new entry" button.
 - A search option to search vehicle by vehicle number.
- On clicking "Add new entry" , a dialog with field must appear :
 - Select Vehicle Type : A dropdown that contains all types of vehicles.
 - Vehicle Number : Allows vehicle number as string
 - Tariff : Tariff amount should be shown automatically on selecting a vehicle type and vehicle number.
 - If a vehicle returns to the same toll within 1 hour, discounted toll rate should be applied for that toll entry alone.
 - Add Entry : Adds the entry to the toll list only after all fields are filled.
- Search By vehicle number option should show **Vehicle not found** when there is no match for given vehicle number.
- Search should work even vehicle number given in lower-case. Eg: tn-05-ak-8063

Instructions :

1. Avoid using third party libraries for designing UI like Bootstrap.
2. Icons can be downloaded from fontawesome. In case of no appropriate icons found, relatable icons can be used. Functionality to be prioritized more than design.
3. Vue/React/JS & JQuery can be used to implement this task (No third party libraries except store/router should be used).
4. Data and Applied filters should be persisted in local storage for faster access.
5. Functionalities/Components should be reused across the task wherever possible.
6. UX cases should be brought out with own creativity.

Note : Task should be uploaded to Google Drive or Github and link should be shared via email.