

**Ahmedabad  
University**

**CSE519 - Human Computer Interaction**

## **Progress Report - 1**

**Section 1**

**Date of Submission: 23rd February 2022**

**Group 20: Bug Smashers**

**Group Details**

<u>Roll No</u>	<u>Name</u>
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**2022 Winter Semester**

# Project Team

Group 20

AU1940028	Moksh Doshi
AU1940120	Jaimik Patel
AU1940130	Nandish Patel

## Team Name

Bug Smashers

## Name of the Product

Digital Wheels

## The Focus of Project

Transport documentation by Government

All the transportation-related documents like driving license, learner license, and services like paying e-challan, registration certificates, insurance of the vehicles, etc. things will be available on the 'Digital Wheels' website.

## Project Title

Manage travel documents at one-stop

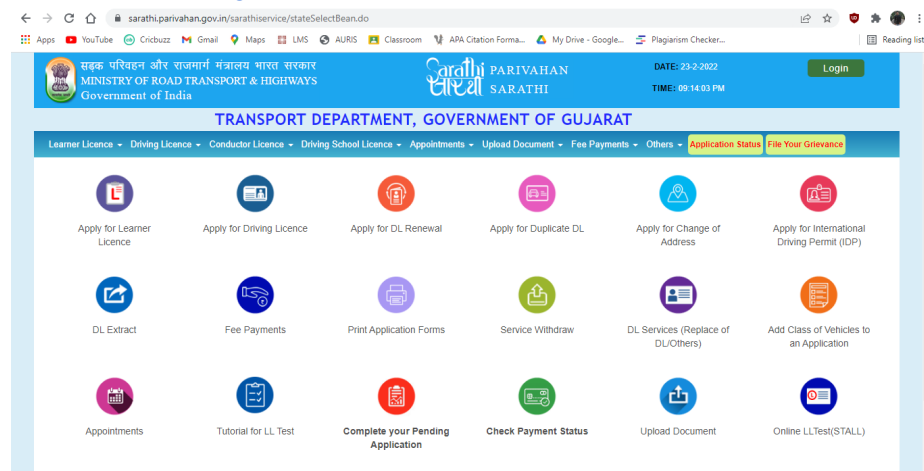
## Tools

- Figma (UI)
- HTML/CSS/JS (Frontend)

# The market survey of 3 real-life products

## 1. Parivahan Sewa Website

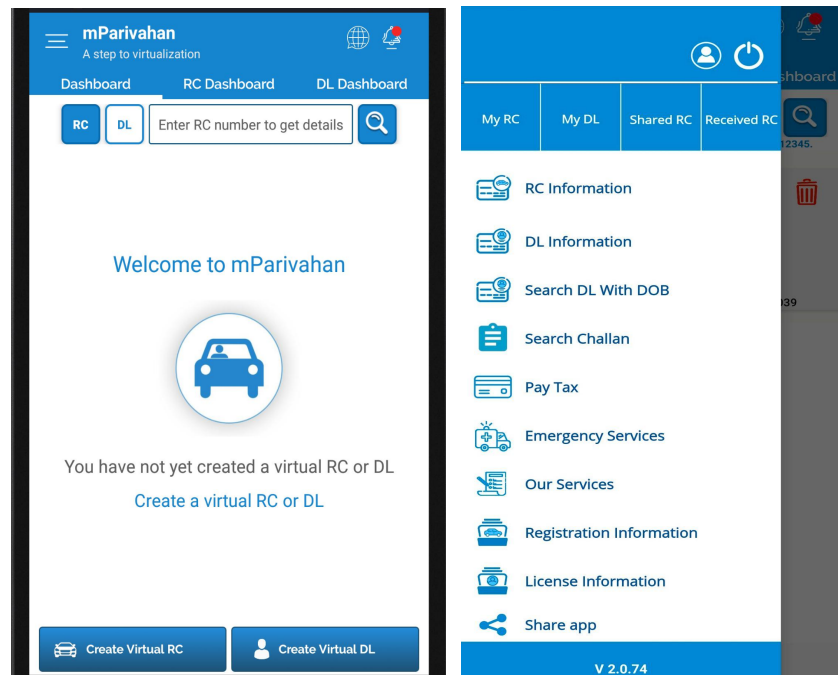
- <https://parivahan.gov.in/parivahan/>



- The website provides almost all the services required but the interaction styles are very basic and so many options at one place without any tutorials often confuses users. They take help from external sources to know the sequence of operations to be performed.
- There is inconsistency in the representation of data like data formats are different on various pages. It doesn't prevent users from making mistakes and going backward is troublesome. There is a high payment failure rate too.
- After shifting all applications in fully online mode the process has become faster but the complexity is high for general people. Thus, reliance on technically sound fellows and agents has sprung. This can easily be solved by making a simple and interactive UI.

## 2. M-Parivahan Mobile App

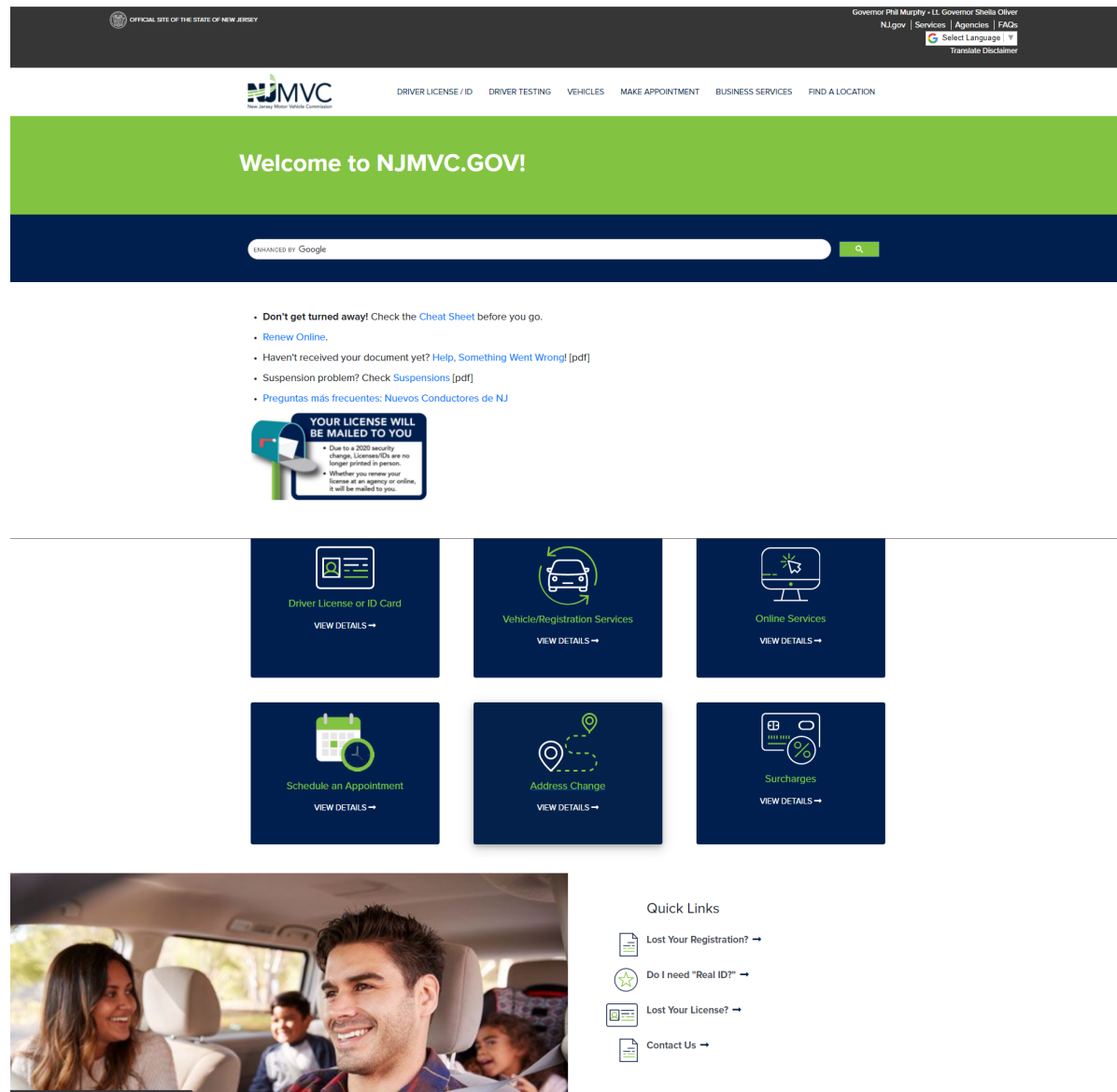
- [https://play.google.com/store/apps/details?id=com.nic.mparivahan&hl=en\\_IN&gl=US](https://play.google.com/store/apps/details?id=com.nic.mparivahan&hl=en_IN&gl=US)



- After logging in M-Parivahan with the mobile number and aadhar card details, the user can save the documents related to transportation like driving license, RC book, learner license, etc. along with this user can pay the vehicle tax and also pay the e-challan.
- If the user doesn't know the English language then the app has also provided different language options like Hindi, Gujarati, Tamil, Telugu. Users can also share/her RC book with family members so that they can access it.
- There is also an option for downloading the license and RC books, so if the user has downloaded the documents he can access these in offline mode as well.
- M-Parivahan has also provided the option for searching nearby PUC centers as well as RTO centers for the driving test centers from the registered home address.

### 3. New Jersey Motor Vehicle Commission Website

- <https://www.state.nj.us/mvc/>



- The site provides various services related to motor vehicles i.e. license related information, vehicle-related information, number plates, appointment booking, etc.
- The website is offered in multiple languages via google translate integration along with a prominent search bar that uses google enhanced search to derive its results
- Different sub-services are categorized into different boxes laid out in a grid that adapts to all kinds of devices such as desktops, mobiles, tablets, etc.
- Most of the subpages detail the process of getting to the desired destination but none of the work can be done online. For example, a person can't apply for vehicle registration or a driving license online. He/She must visit the DMV. This is extremely inconvenient for simple tasks such as making payments or filling forms.

# Description of the Project

The goal of this website/application is to provide users with effortless access to the transport information along with the application for license and other transport-related documents. A user should be able to

- Apply for a new learner/permanent license
- Renew his/her driving license
- Save and view his/her driving license in digital form
- View details of vehicles registered to his/her name
- View, dispute and pay traffic violation fines with his/her payment method of choice i.e. credit cards, UPI, wallets, net banking, etc.
- Apply for a special vehicle permit
- See if he/she is compliant with various traffic regulations such as a compulsory FastTag, valid PUC certificate and take necessary actions in case he is not
- And much more

We will create different pages for the above mentioned non-exhaustive list of functionalities. Taking into consideration the Indian context of this application, we plan to integrate different functionalities of sarthi parivahan website, m parivahan mobile application, and other state government website functionalities. We aim to create a consistent layout and feel of the application for all the devices such as tablets, mobiles, desktops which the existing sites and apps are severely lacking. We also aim to create a guided in-app/website tutorial for first-time users. A chatbot interface for instant help would be provided. Overall the website/app would be a one-stop interface for all transport-related queries and needs.