eGO

eGO is a web application which is used to facilitate and make things handy for the EV users like finding EV charging stations and connecting with other plug-in vehicle owners. It's the completely public EV charging map over India, with every major distributor of charging stations. It also solves the range anxiety problems for the users, interoperability of data and build the ecosystem for this growing revolution in automobiles.

ORGANISATION NAME:	VMware Software India Pvt.Ltd.
PROBLEM STATEMENT:	Electrical Vehicle(EV) Ecosystem
TEAM NAME:	BUG SLAYERS
TEAM LEADER:	Vishesh Maheshwari
DOMAIN BUCKET:	Software-Web Application Development
COLLEGE:	Institute of Engineering and Technology, DAVV, Indore

Problem Statement Details

Description	Electric Vehicle (EV) will be the vehicle of choice soon. However, EV demand on the grid is unknown and EV users have range anxiety. To address these challenges, can we build an EV eco system and connect all players of the eco system? Can we create predictive models for EV demand? How do we provide inter-operability of data and end user applications? For more details please refer to attachment.
Organisation	VMware Software India Pvt.Ltd.
Category	Software
Domain Bucket	Software - Web App development

Challenges

The future of the automobile industry is pinned on electric vehicles but India lacks the infrastructure which can support the ecosystem.

The challenges are in following ways:

- Range anxiety among consumers.
- Inadequate charging infrastructure.
- Inadequate electricity supply in parts of India.
- Lack of Interoperability between multiple charging networks i.e. drivers need to multiple cards and app to access different stations.

Solution

- We will develop a web application which will create an unique account for every electronic vehicle after the verification of vehicle.
- This account will connect all users as well as the different charging station operator to the ecosystem and bring interoperability at a single platform.
- This application will also take regular surveys and analytics of user data which can be used by station operators to build their infrastructure in a beneficial way.

Key Features and Technology Stack

Location of Station
We can locate nearby charging stations and sort them according to their distances and reviews.

Easy Navigation
We will provide easy navigable map inside our application.

Interoperability
Our application will provide interoperability among different charging station operators at single platform.

Compatibility
It's an additional feature will tell whether the car is compatible or not with station charging plugs.

Security
The plus point of our application is that no burglar can charge the stolen vehicle without its unique ID and password

Pricing Details
The application will regular update the current charging prices as decided by the government.

Data Mining
Through regular surveys and analytics our application maintain a reliable data for end user as well as operator.

Transaction Record
The application will maintain the time, date and payment detail of the user on the regular basis.

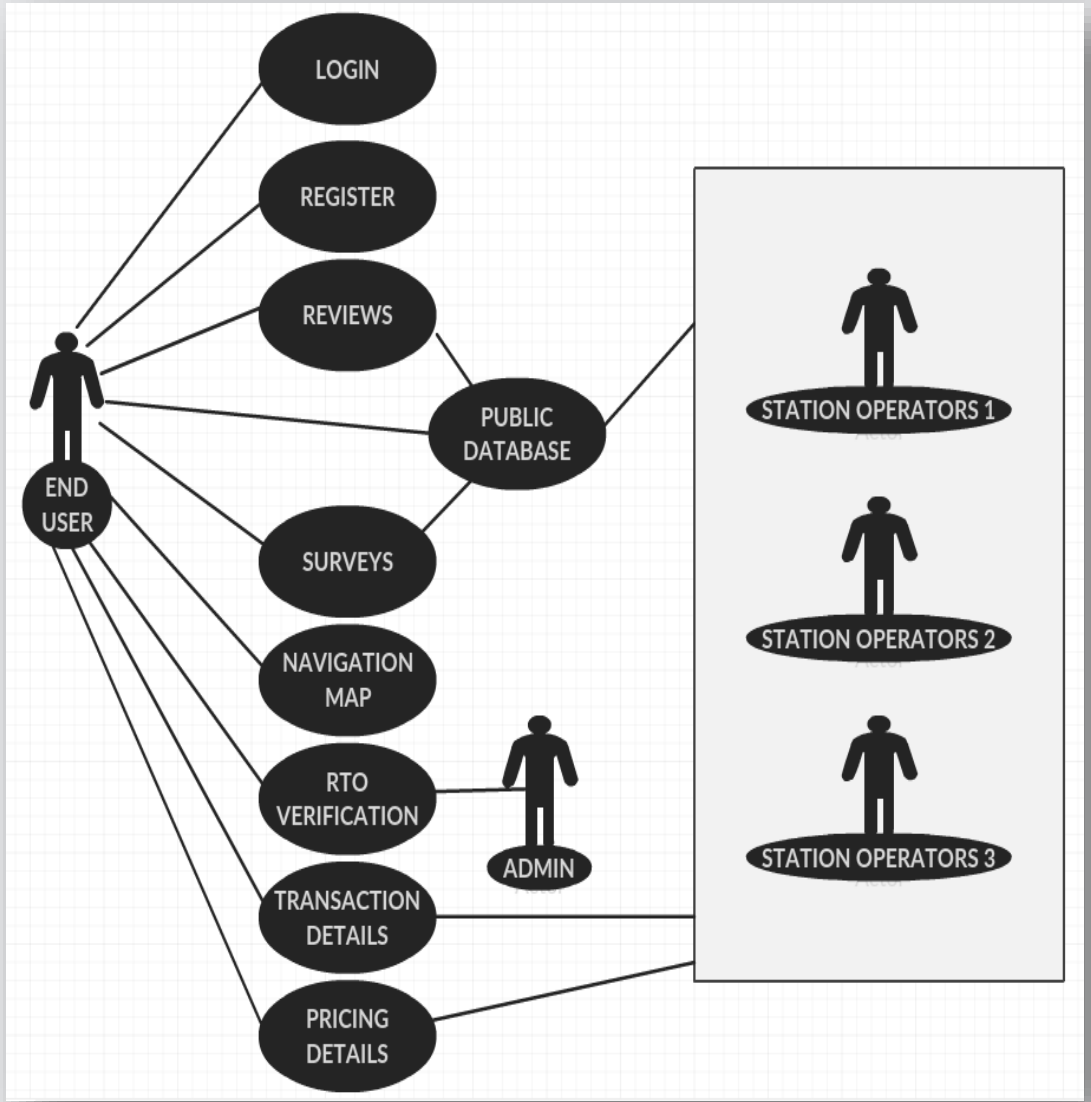
Use Case and Dependencies

USE CASE DESCRIPTION

After registration and login, the user will be asked to verify his vehicle for RTO registration number. After the validation the user is opened to use the any of the given features.

The main point of our application is user can give review and surveys which can be used by other users as well as all station operators.

The transaction detail will be maintained for user and transaction detail will be updated by station operator.



DEPENDENCIES

- Society: User (for reviews)
- Station Operator(Transaction Details)
- Device: Mobile/Computer
- Technology: Internet, GPS