Project : **BAXA :** A Vehicle Sharing Marketplace

--→ **Team name**

Atmanirbhar – The Self Dependent

--→ **Team members**

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(* in development phase)

--→ **Project Overview**

This project aims to develop a software that enables users to rent a vehicle and make their vehicles available for rent/hiring by the hour or day criteria. This system will be primarily made available as mobile application on Android and IOS platforms alongwith the website.

There are many problems when it comes to proper availability of rental vehicles. This application removes any third parties or middlemen and directly connects the users who want to rent a

vehicle to people who are willing to provide. This reduces the hiring cost by a great margin. In this way, this system is highly economical and makes it an highly affordable option, thus making this service available to larger section of society. This will be a opportunity for people who are having their vehicles unused to earn capital out of the same.

This will cover all types of vehicles i.e. cars, bikes, mini-buses, cycles, etc. Thus providing maximum options depending upon user's current situation and need.

For registration of a rider, One Time Password will be sent on his given mobile number which will verify the user's account. In case of vehicle provider, To register his vehicle , user have to submit Identification proof such as Aadhar card, driving license. Also ,the registration and insurance papers of the vehicle will be verified along with the present condition of the vehicle. After the successful verification, vehicle will be associated with the application and will be made available for hiring.

All the registered vehicles will be equipped with Real time GPS tracker , thus ensuring proper safety of the vehicle and the rider or the user also. Also for selected vehicles, the facility of unlocking the vehicle with the smartphone will be provided which is a pretty handy feature directed towards safe conduct.

Registered users will be allowed to make their vehicles available for renting after a thorough checkup and quality assurance. After verification , their vehicles will be shown on the map according to

their location. The user who wants to rent a vehicle then can choose one with the desired location, timing , duration for which it will be

rented which can be either by days or hours. Then the user will get notified of all the appropriate rides available according to his need on the map. Thus providing a more flexible service in context to hiring duration and eventually being more economic too.

The application keeps track of user's past rides and vehicles provided. Also one can upgrade their account after paying minimal amount to unlock features such as pre-booking, discounted prices for the rider ; more improved integration with application as a vehicle provider such as giving priority to certain user's vehicle in recommendations to the riders.

--→ Technologies To be used

The mobile Applications' User interface will be made on the Flutter toolkit which uses Dart as its language.

Firebase will be used as the database for the same in the initial phases.

For the website, Angular Framework will be used which is based on Type-script.

The Geo-location API by the Google Maps Platform will be used to display the current location and navigation of vehicles on the map.

--→ Prototype design/ Proposed User Interface