



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

Government of Himachal Pradesh

PS Code: 1382

Problem Statement Title: Real Time Vehicle Tracking System

Team Name: AUTOMATORS

Team Leader Name: AZMI

Institute Code (AISHE): U-0643

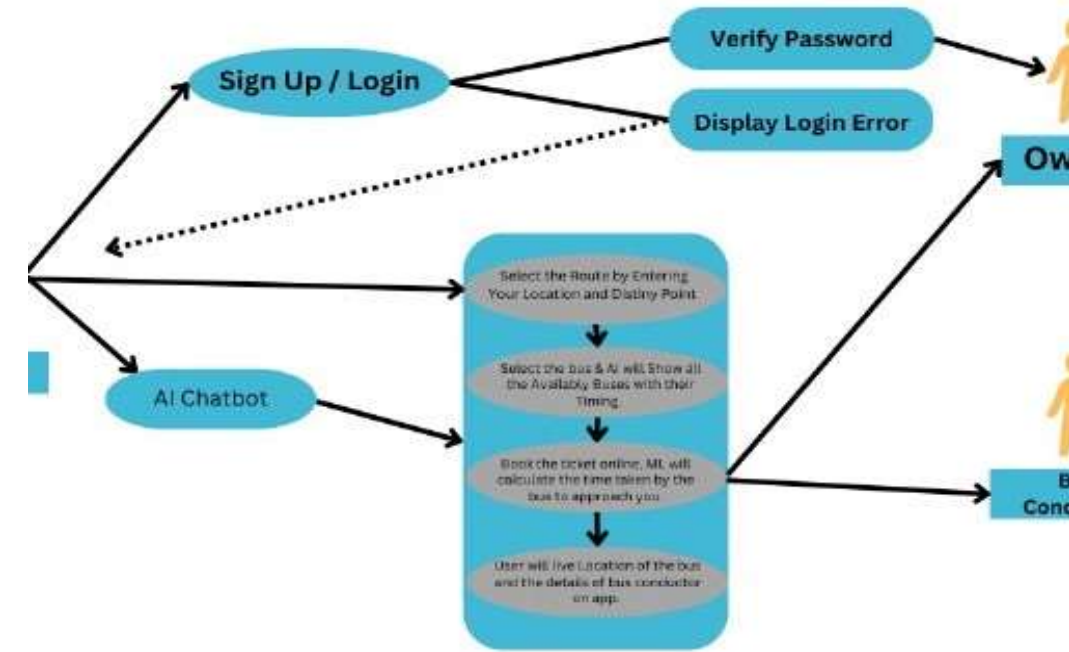
Institute Name: GALGOTIAS UNIVERSITY

Theme Name: Smart vehicle

Idea/Approach Details

We're looking for the solution by creating an **android** and **web**-based application that will serve as a platform for the passengers for Efficient **Time Management** while traveling, with the help of advance **GPS system**.

- To Promote the Mission of “**Vasudhaiva Kutumbakam**” Passengers can check the Bus Details and book only those Buses which run on the **Clean Energy**.
- To avoid accidents we will **use eye blink sensor** on driver seats , so that sound will create whenever the driver will close their eyes more than 5 seconds .
- **Advance GPS** Tracker is Installed in the buses dashboard that will provide to the passenger about the **Real time Location** of the buses.
- The **realtime GNSS** data can be used to determine travel time, speed and delays and thus can be utilized for ITMS.
- Passengers can easily book from his chair, get **Cashbacks** and **Discount** by booking through this app.
- If a passenger missed his bus at his boarding place he can intimate his next boarding stop using this app.



Describe your Technology stack here:

- RTOS is used to manage the execution of tasks and process in real-time. Example include FreeRTOS, QNS, AUTOSAR, etc.
- Software : iOS, Android
- Tools : Apache HTTP Server, Google Map API.
- Languages : HTML, CSS, JavaScript, etc.

Idea/Approach Details

Describe your Use Cases here

- Simply Login to the App or Website by E-mail and Phone Number. App will ask for permission to detect your Location.
- This allow notifications on our website so that when vehicle come on our area this will notify the passenger.
- Select the vehicle and it will automatically show the buses and their stops in which they will stop and also shows the total distance traveled by bus. On which fuel bus is running, bus model and other details.
- We can also avoid accidents with the help of a sensor , so that if some animals or anything come in front of the bus it will automatically stop.

Describe your Dependencies / Show stopper here

- A multilingual android and web based platform, based on 32 different languages which includes all State Languages.
- After booking the Ticket User will get the details of bus Driver and Conductor so that, if by mistake some one lost the bus can contact to them.
- Automatic generation of cashback points according to number of Online Ticket booked in past 9 Days through and Artificial Intelligence. Machine Learning
- An AI-powered 24/7 hotline **Chatbot** is available to assist the User.
- Bus Owner can **Rent** their buses to certified drivers so that they both can make money. This will **create jobs** for multiple peoples.
- This app/website can be the biggest competitor of **RedBus**, which is having annual turnover of **500cr**.

Team Member Details

Team Leader Name: Azmi

Branch : Btech

Stream : CSE

Year : II

Team Member 1 Name: Vedant Gupta

Branch : BCA

Stream : CSE

Year : III

Team Member 2 Name: Kumar Jay Wardhan

Branch : Btech

Stream : CSE

Year : II

Team Member 3 Name: Khushi Dubey

Branch : Btech

Stream : CSE

Year : II

Team Member 4 Name: Vikhyat Tyagi

Branch : Btech

Stream : CSE

Year : II

Team Member 5 Name: Ashish Pathania

Branch : Btech

Stream : CSE

Year : II

Team Mentor 1 Name: Dr.S.Karthigai Selvi

Category : Ga

Expertise : ML

Domain Experience (in years): 7

Team Mentor 2 Name:

Category (Academic/Industry):

Expertise (AI/ML/Blockchain etc):

Domain Experience (in years):