

## GPS Tracking

Create a Backend with RESP API for Vehicle GPS Tracking

Assume you have number of 2 Wheeler Vehicles sending you its GPS co-ordinates to your backend server every minute.

You have information of every vehicle such as:

1. Registration number
2. Bike Model
3. Insurance Expiry Date
4. Purchased Date

Information of every bike owner such as

1. Name
2. Licence Number
3. Address
4. Phone Number
5. Email

Mapping between vehicle and owners

Create a backend using java with following use cases

1. System should be capable of storing every gps co-ordinates received in a database table
2. Users should be able to get the gps information of their vehicles
3. User should be able to give start and end date and get distance travelled calculated using the gps locations stored in the table
4. Users should be able to access only the information of the vehicles they own
5. One user can own multiple vehicles

Tasks

1. Design the table, primary keys, foreign keys to store all required information. Create UML diagrams based on the design
2. List out all the apis going to be developed
3. Implement using java with any frameworks of your choice or plain jsp

#### Notes:

No need to worry about the vehicle to battery communication, design the tables and assume you have values collected for last 30 days. Add sample values for testing and demonstration

Number of URLs, format of URL everything is up to you. Number of URLs, format of URL everything is up to you.

Given details are mandatory parts of the project. Over this you can do any improvisation and everything add points

#### Process:

Code must be added In a github bucket and submit the URL before deadline.

Proper documentation in the code should be added

Repo should have proper readme file with instruction about the frameworks used, steps to install and run the project

After Submission if you are shortlisted you will be called for an online demo of your project along with final technical interview