TracMobility Fullstack Testing

<u>Objective:</u> This testing will test the candidates' ability to develop the backend API and frontend page.

<u>Backend Requirements:</u>
You have been tasked with building part of a simple vehicle system that allows list all vehicles. Your code should provide the following functionality:
- List all vehicles.
- Please use Java, Spring Boot, Spring MVC
- In order to test this application, you may choose to import the following initial data.

  ID, Type, QR_CODE, Status, Lat, Lng, BatteryLevel
  1, SCOOTER, QR_0001, AVAILABLE, 51.516432, -0.0985,   0.15
  2, SCOOTER, QR_0002, RUNNING, 45.87867,   -0.0673,   0.95
  3, SCOOTER, QR_0003, REPAIRING, 49.989898, -0.0985,   0.65
  4, BIKE,   QR_0004, AVAILABLE, 52.010110, -0.078903, 0.45
  5, E-BIKE,   QR_0005, AVAILABLE, 39.232324, -0.157323, 0.15
  6, SCOOTER, QR_0006, AVAILABLE, 39.232324, -0.0985,   0.05
- No JDBC, please cache the data in memory
- No distributed caches
- Unit test
- Integration test

<u>Frontend requirements:</u>
1. Finish one page (Vehicle List, Side Menu)
   - Vehicle List: show the vehicle information extracted from your backend API (http://localhost:8080/api/vehicle)
   - Search input doesn't need to be implemented.
   - Page size and pagination is optional, but they are the bonus item
   - Side Menu : show multiply features.
2. Please use any framework you like React or Angular
3. You can use any CSS template which you want. e.g. Bootstrap or Material-UI. But please make sure the primary colour should be '#03989E'

<u>Examples:</u>
Just for your reference (Your work does not need to be the same as this sample)

TRAC MOBILITY

TRACMOBILITY

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- KPI Dashboard

TASK MANAGEMENT
- Task Map
- Task List
- Task Creation
- Rule Setting

OPERATION CENTER
- Vehicle Information
- User Information
- Order Information
- Customer Service

Vehicle List

Show 10 ⇕ entries   Search: _____

VehicleID	QR Code	Status	Location	Battery Level	Operation
7702020	QR189039	Damaged	(51.5164324, -0.0985)	15%	Edit · Order · Change City/Region · Change Status
7702120	QR184039	Normal	(51.5064324, -0.0985)	95%	Edit · Order · Change City/Region · Change Status
7702220	QR189439	Running	(51.6064324, -0.0965)	65%	Edit · Order · Change City/Region · Change Status
VehicleID	QR Code	Status	Location	Battery Level	Operation

Showing 1 to 3 of 3 entries

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