## Assignment

## Instructions:

- Build an application using HTML, CSS, Javascript, or even you can use React.js.
- The application should be able to create, display, update, delete Scenario and Vehicle, a scenario can have multiple vehicles, and vehicles should be able move when user click a button based on the scenario and vehicles parameters.
- The scenario should have following fields:
  - Scenario id
  - Scenario name
  - o Time
- The **Vehicle** should have following fields:
  - o Vehicle id
  - Vehicle name
  - Initial Position X
  - o Initial Position Y
  - Speed
  - o Direction (can have only Towards, Backwards, Upwards and Downwards).
- For storing data use localStorage.
- You have to create sidebar like displayed in the below images.
- Inside Home page user can be able select the scenario whichever scenarios he has created and start simulation, when user click start simulation vehicles should start moving based to the direction and speed, till the scenario time, if the vehicles is going outside the container then vehicles should hide.
- While adding the Vehicle do proper validation like user should not be able to add the positions greater than the Home page's graph container size.
- After Completion of this project you have upload it to your github account's public repository, and write a proper **README.MD** file explaining how to install your project and what you have done in this project.

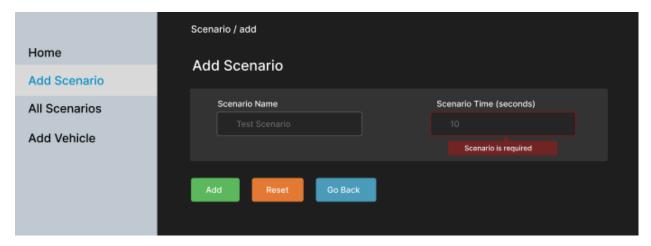


Figure 1: Add Scenario Page



Figure 2: All Scenarios Page

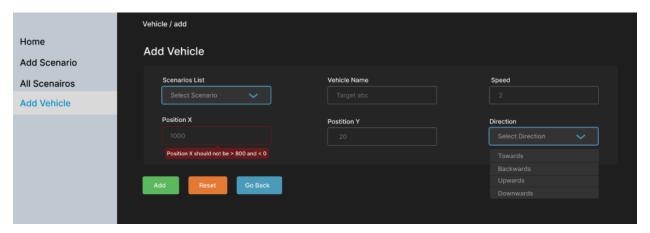


Figure 3: Add Vehicle Page

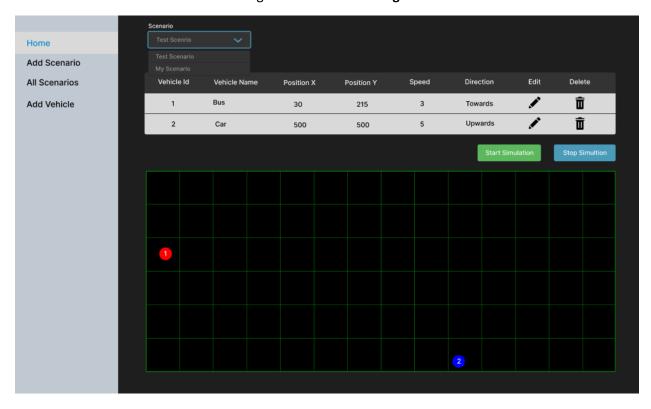


Figure 4: Home Page