

Software Development Assignment

Problem Statement -1

1. post "/load"

payload:

```
{  
  "loadingPoint": "delhi",  
  "unloadingPoint": "jaipur",  
  "productType": "chemicals",  
  "truckType": "canter",  
  "noOfTrucks": "1",  
  "weight": "100",  
  "optional:comment": "",  
  "shipperId" : "shipper:<UUID>",  
  "Date" : "dd-mm-yyyy"  
}
```

Response:loads details added successfully

2. GET "/load"

Query params - (shipperId)

Response:list of loads with this shipperId

1. GET "load/{loadId}"

2. PUT "load/{loadId}"

```
{  
  "loadingPoint": "alwar",  
  "unloadingPoint": "jaipur",  
  "productType": "chemicals",  
  "truckType": "canter",  
  "noOfTrucks": "1",  
  "weight": "100",  
  "comment": "",  
  "Date" : "dd-mm-yyyy"  
}
```

3. DELETE "load/{loadId}"

Java Springboot Code

{* Load Class } :

```
package com.logistics.entity;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor

public class Load {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id; // Unique Load ID

    private String loadingPoint;
    private String unloadingPoint;
    private String productType;
    private String truckType;
    private int noOfTrucks;
    private int weight;
    private String comment;
    private String shipperId;
    private String date;
}
```

{* Controller Class } :

```
package com.logistics.controller;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;

import java.util.*;

@RestController
@RequestMapping("/load")
public class LoadController {

    @Autowired
    private LoadService loadService;

    @PostMapping
    public String addLoad(@RequestBody Load load) {           // For adding new load //
        loadService.addLoad(load);
        return "Load details added successfully";
    }

    @GetMapping
    public List<Load> getLoadsByShipperId(@RequestParam String shipperId) {
        return loadService.getLoadsByShipperId(shipperId);
    }

    @GetMapping("/{loadId}")                                     // To access load //
    public Optional<Load> getLoadById(@PathVariable Long loadId) {
        return loadService.getLoadById(loadId);
    }

    @PutMapping("/{loadId}")
    public Load updateLoad(@PathVariable Long loadId, @RequestBody Load
updatedLoad) {           // Insert load //
        return loadService.updateLoad(loadId, updatedLoad);
    }

    @DeleteMapping("/{loadId}")
    public String deleteLoad(@PathVariable Long loadId) {
        loadService.deleteLoad(loadId);
        return "Load deleted successfully";
    }
}
```

