

Carparking Application

Team - B

TEAM MEMBERS

- Aditya Purohit (Code)
- Ayush Atte
- Aman Singh Patel (Documentation) - Lead
- Annanya Rajpal

Problem Statement

- Carparking Application is to provide show all the nearby parking spots according to nearest location and help the users to find a parking spot.

Use Case Diagram



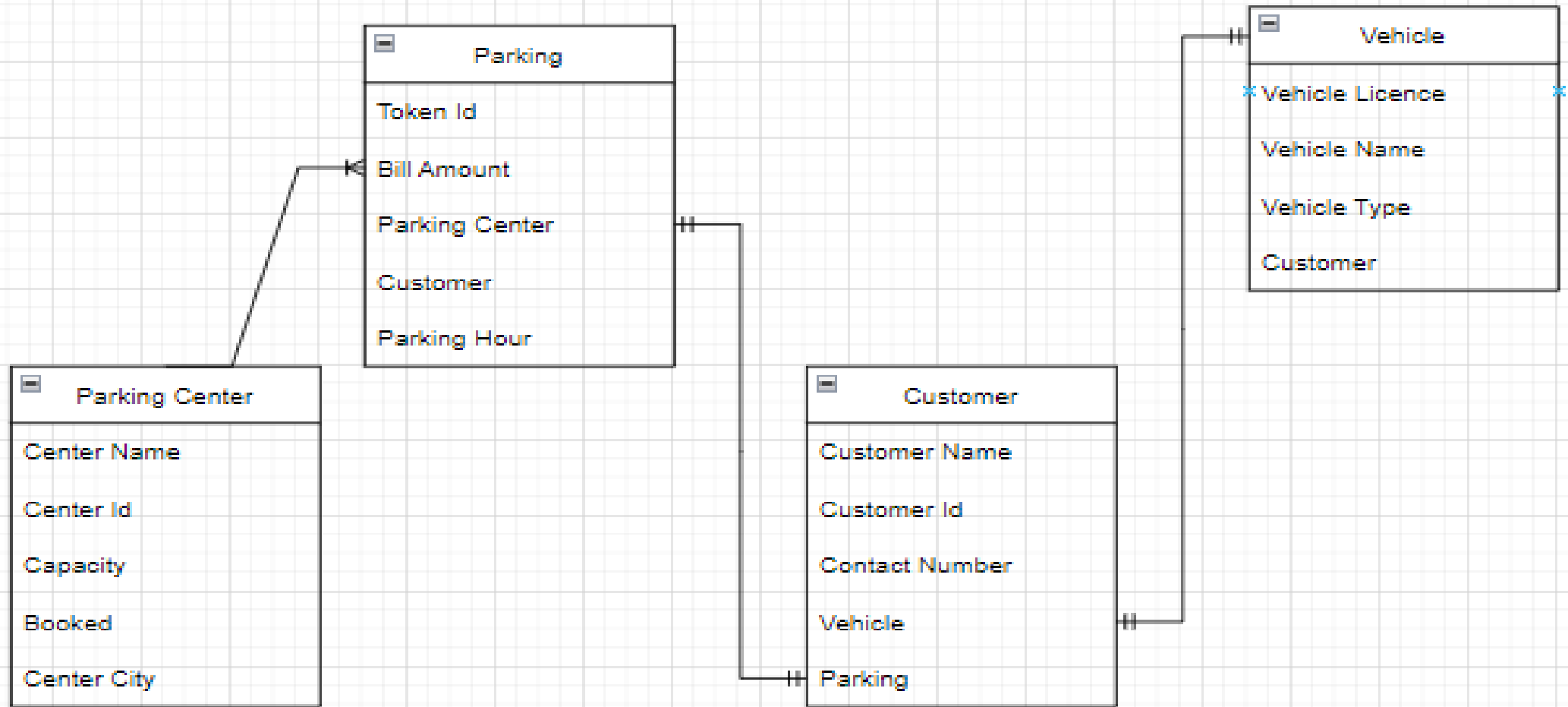
Technology Used

- JAVA 11
- MYSQL - DataBase
- Swagger - Documenting The APIs
- Eclipse – Most Used Java IDE
- Spring Boot – Java based Dependency Injection Framework

Features

- **Admin** can Add/Edit/Delete/View parking details.
- **Manager** can search for new parking for lease, parking allocation, Parking availability service .
- **Customer** can search service, have a preference to search for near by parking and Parking booking service/billing .

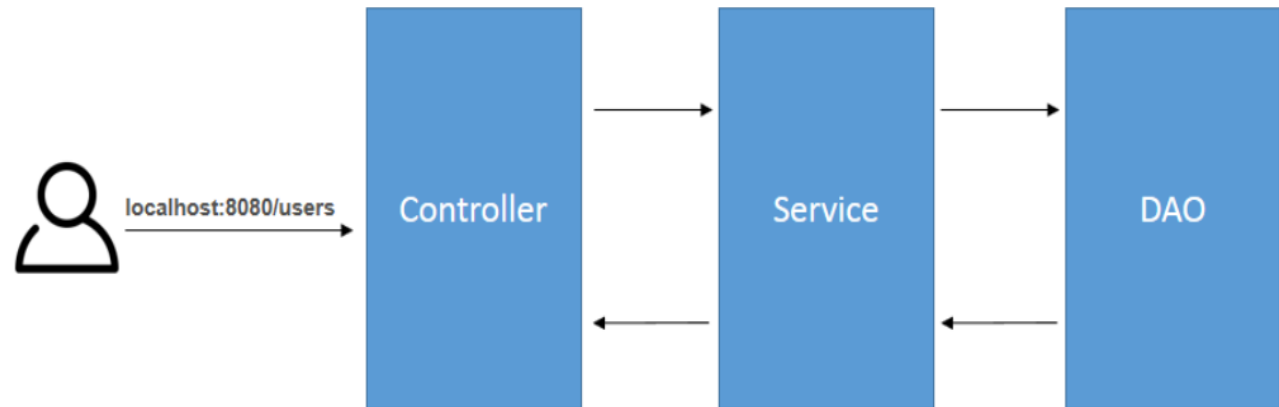
Entity Relationship Diagram



Project Explorer ×

- carpark [boot] [devtools]
 - src/main/java
 - com.carpark
 - CarparkApplication.java
 - com.carpark.controller
 - AdminController.java
 - CustomerController.java
 - ManagerController.java
 - com.carpark.entity
 - Customer.java
 - Parking.java
 - ParkingCenter.java
 - Vehical.java
 - com.carpark.exception
 - DeleteParkingCenterException.java
 - DeleteParkingException.java
 - ExceptionHandlerAdvice.java
 - com.carpark.repository
 - CustomerRepository.java
 - ParkingCenterRepository.java
 - ParkingRepository.java
 - VehicalRepository.java
 - com.carpark.service
 - AdminService.java
 - AdminServiceImpl.java
 - CustomerService.java
 - CustomerServiceImpl.java
 - ManagerService.java
 - ManagerServiceImpl.java

Project Structure



Rest API end points

admin-controller Admin Controller

POST /Admin/addparking addParking

GET /Admin/allparking getAllParking

GET /Admin/allparkingcenter getAllParkingCenter

DELETE /Admin/deleteparking/{id} deleteParking

PUT /Admin/updateparking/{id} updateParking

basic-error-controller Basic Error Controller

customer-controller Customer Controller

POST /customer/bookparking/{centerId}/{customerId} bookParking

DELETE /customer/deleteparking/{id} deleteParkingById

GET /customer/findparkingbylocation/{location} allParkingAtLocation

GET /customer/parkingstatus/{location}/{centerId} parkingStatusAtLocation

POST /customer/register addCustomer

GET /customer/viewparking/{id} viewById

manager-controller Manager Controller

POST /manager/addcenter addParkingCenter

DELETE /manager/deletecenetrbyid/{id} deleteCenterById

GET /manager/findCenterById findParkingCenterById

Questions Any ?



Thank you
