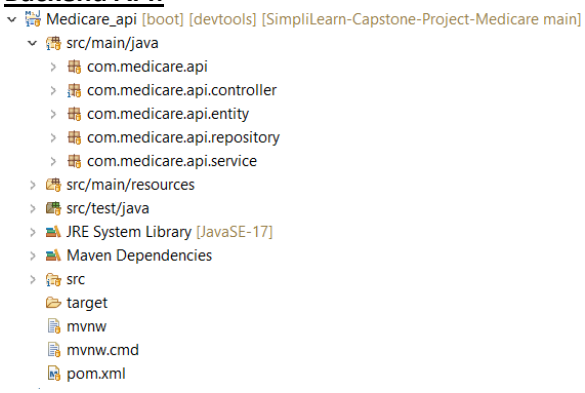
SimpliLearn Capstone Project: MyMoviePlan
Movie ticket booking portal

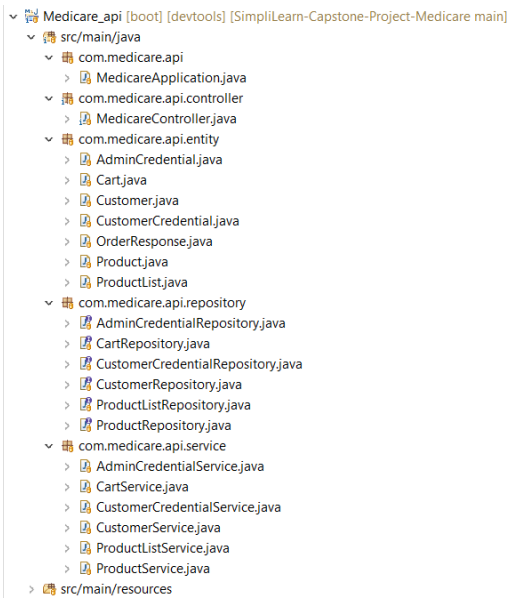
Submitted by: KAVIN K R

Date of submission : 21-03-2022
GitHub Project Repository URL : [GitHub Link]

Project Structure:

Backend API:






```
package com.medicare.api;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class MedicareApplication {

	public static void main(String[] args) {
		SpringApplication.run(MedicareApplication.class, args);
	}

}
```

```
package com.medicare.api.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
```

```
import com.medicare.api.entity.AdminCredential;
import com.medicare.api.entity.Cart;
import com.medicare.api.entity.Customer;
import com.medicare.api.entity.CustomerCredential;
import com.medicare.api.entity.OrderResponse;
import com.medicare.api.entity.ProductList;
import com.medicare.api.service.AdminCredentialService;
import com.medicare.api.service.CartService;
import com.medicare.api.service.CustomerCredentialService;
import com.medicare.api.service.CustomerService;
import com.medicare.api.service.ProductListService;

@CrossOrigin(origins = "http://localhost:4200")
@RestController
@RequestMapping("/api/medicare")
public class MedicareController {

	@Autowired
	private CustomerService customerService;

	@Autowired
	private ProductListService productListService;

	@Autowired
	private CartService cartService;

	@Autowired
	private CustomerCredentialService customerCredentialService;

	@Autowired
	private AdminCredentialService adminCredentialService;

	// Customer & Product

	// 1. POST Method
	@PostMapping("/customer")
	public Customer addCustomer(@RequestBody Customer customer) {
		return customerService.saveCustomer(customer);
	}

	// 2. GET Method
	@GetMapping("/customer")
	public List<Customer> findAllCustomers() {
		return customerService.getCustomers();
	}

	@GetMapping("/customer/{id}")
	public Customer findCustomerById(@PathVariable int id) {
		return customerService.getCustomerById(id);
	}

	// 3. DELETE Method
	@DeleteMapping("/customer/{id}")
	public String deleteCustomer(@PathVariable int id) {
		return customerService.deleteCustomerById(id);
```

```
	}

	// Join the Customer & Product Table

	@GetMapping("/order/list")
	public List<OrderResponse> findAllCustomerProductInfos() {
		return customerService.getCustomerProductJoinInfos();
	}

	// ProductList

	// 1. POST Method
	@PostMapping("/product/list")
	public ProductList addProductList(@RequestBody ProductList productlist) {
		return productListService.saveProductList(productlist);
	}

	// 2. GET Method
	@GetMapping("/product/list")
	public List<ProductList> findAllProductLists() {
		return productListService.getProductLists();
	}
	@GetMapping("/product/list/{id}")
	public ProductList findProductListById(@PathVariable int id) {
		return productListService.getProductListById(id);
	}

	// 3. DELETE Method
	@DeleteMapping("/product/list/{id}")
	public String deleteProductList(@PathVariable int id) {
		return productListService.deleteProductListById(id);
	}

	// 4. PUT Method
	@PutMapping("/product/list/{id}")
	public ProductList updateProductList(@RequestBody ProductList productlist,
@PathVariable int id) {
		return productListService.updateProductList(productlist, id);
	}

	// Cart

	// 1. POST Method
	@PostMapping("/cart")
	public Cart addCart(@RequestBody Cart cart) {
		return cartService.saveCart(cart);
	}

	// 2. GET Method
	@GetMapping("/cart")
	public List<Cart> findAllCarts() {
		return cartService.getCarts();
	}

	@GetMapping("/cart/{id}")
```

```
	public Cart findCartById(@PathVariable int id) {
		return cartService.getCartById(id);
	}

	// 3. DELETE Method
	@DeleteMapping("/cart/{id}")
	public String deleteCart(@PathVariable int id) {
		return cartService.deleteCartById(id);
	}

	// CustomerCredential

	// 1. POST Method

	@PostMapping("/customer/credential")
	public CustomerCredential addCustomerCredential(@RequestBody CustomerCredential
customercredential) {
		return customerCredentialService.saveCustomerCredential(customercredential);
	}

	// 2. GET Method

	@GetMapping("/customer/credential")
	public List<CustomerCredential> findAllCustomerCredentials() {
		return customerCredentialService.getCustomerCredentials();
	}

	@GetMapping("/customer/credential/{id}")
	public CustomerCredential findCustomerCredentialById(@PathVariable int id) {
		return customerCredentialService.getCustomerCredentialById(id);
	}

	// 3. PUT Method
	@PutMapping("/customer/credential/{id}")
	public CustomerCredential updateCustomerCredential(@RequestBody
CustomerCredential customercredential, @PathVariable int id) {
		return
customerCredentialService.updateCustomerCredential(customercredential, id);
	}

	// AdminCredential

	// 1. POST Method

	@PostMapping("/admin/credential")
	public AdminCredential addAdminCredential(@RequestBody AdminCredential
admincredential) {
		return adminCredentialService.saveAdminCredential(admincredential);
	}

	// 2. GET Method

	@GetMapping("/admin/credential")
	public List<AdminCredential> findAllAdminCredentials() {
		return adminCredentialService.getAdminCredentials();
```

```
	}

	@GetMapping("/admin/credential/{id}")
	public AdminCredential findAdminCredentialById(@PathVariable int id) {
		return adminCredentialService.getAdminCredentialById(id);
	}

	// 3. PUT Method
	@PutMapping("/admin/credential/{id}")
	public AdminCredential updateAdminCredential(@RequestBody AdminCredential
admincredential, @PathVariable int id) {
		return adminCredentialService.updateAdminCredential(admincredential, id);
	}

}
```

```
package com.medicare.api.entity;

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

@Entity
public class AdminCredential {

	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int adminId;
	private String username;
	private String password;


	public AdminCredential() {}


	public AdminCredential(String username, String password) {
		this.username = username;
		this.password = password;
	}


	public int getAdminId() {
		return adminId;
	}


	public void setAdminId(int adminId) {
		this.adminId = adminId;
	}


	public String getUsername() {
		return username;
	}
```

```
	public void setUsername(String username) {
		this.username = username;
	}


	public String getPassword() {
		return password;
	}


	public void setPassword(String password) {
		this.password = password;
	}


	@Override
	public String toString() {
		return "AdminCredential [adminID=" + adminId + ", username=" + username + ",
password=" + password + "]";
	}

}
```

```
package com.medicare.api.entity;

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

@Entity
public class Cart {

	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int cartId;
	private String medicineName;
	private String seller;
	private double price;
	private String description;
	private String imgURL;
	private int quantity;

	public Cart() {}

	public Cart(String medicineName, String seller, double price, String description, String
imgURL, int quantity) {
		this.medicineName = medicineName;
		this.seller = seller;
		this.price = price;
		this.description = description;
		this.imgURL = imgURL;
		this.quantity = quantity;
	}
```

```
	public int getCartId() {
		return cartId;
	}

	public void setCartId(int cartId) {
		this.cartId = cartId;
	}

	public String getMedicineName() {
		return medicineName;
	}

	public void setMedicineName(String medicineName) {
		this.medicineName = medicineName;
	}

	public String getSeller() {
		return seller;
	}

	public void setSeller(String seller) {
		this.seller = seller;
	}

	public double getPrice() {
		return price;
	}

	public void setPrice(double price) {
		this.price = price;
	}

	public String getDescription() {
		return description;
	}

	public void setDescription(String description) {
		this.description = description;
	}

	public String getImgURL() {
		return imgURL;
	}

	public void setImgURL(String imgURL) {
		this.imgURL = imgURL;
	}

	public int getQuantity() {
		return quantity;
	}

	public void setQuantity(int quantity) {
		this.quantity = quantity;
	}
```

```
	@Override
	public String toString() {
		return "Cart [cartId=" + cartId + ", medicineName=" + medicineName + ", seller="
+ seller + ", price=" + price
				+ ", description=" + description + ", imgURL=" + imgURL + ",
quantity=" + quantity + "]";
	}



}
```

```
package com.medicare.api.entity;

import java.util.List;

import javax.persistence.CascadeType;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;

@Entity
public class Customer {

	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int CusId;
	private String name;
	private int age;
	private String gender;
	private String email;
	private String address;
	private String mobile;

	@ManyToMany(cascade = CascadeType.ALL, fetch = FetchType.LAZY)
	@JoinTable(name = "CUSTOMER_PRODUCT_TABLE",
		joinColumns = {
				@JoinColumn(name ="customer_id", referencedColumnName =
"CusId")
		},
		inverseJoinColumns = {
				@JoinColumn(name = "product_id", referencedColumnName =
"pid")
		}
	)
	private List<Product> products;

	public Customer() {}
```

```
	public Customer(String name, int age, String gender, String email, String address, String mobile,
				List<Product> products) {
		this.name = name;
		this.age = age;
		this.gender = gender;
		this.email = email;
		this.address = address;
		this.mobile = mobile;
		this.products = products;
	}

	public int getCusId() {
		return CusId;
	}

	public void setCusId(int cusId) {
		CusId = cusId;
	}

	public String getName() {
		return name;
	}

	public void setName(String name) {
		this.name = name;
	}

	public int getAge() {
		return age;
	}

	public void setAge(int age) {
		this.age = age;
	}

	public String getGender() {
		return gender;
	}

	public void setGender(String gender) {
		this.gender = gender;
	}

	public String getEmail() {
		return email;
	}

	public void setEmail(String email) {
		this.email = email;
	}

	public String getAddress() {
		return address;
```

```
	}

	public void setAddress(String address) {
		this.address = address;
	}

	public String getMobile() {
		return mobile;
	}

	public void setMobile(String mobile) {
		this.mobile = mobile;
	}

	public List<Product> getProducts() {
		return products;
	}

	public void setProducts(List<Product> products) {
		this.products = products;
	}

	@Override
	public String toString() {
		return "Customer [CusId=" + CusId + ", name=" + name + ", age=" + age + ",
gender=" + gender + ", email="
				+ email + ", address=" + address + ", mobile=" + mobile + ",
products=" + products + "]";
	}




}
```

```
package com.medicare.api.entity;

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

@Entity
public class CustomerCredential {

	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int CustomerId;
	private String username;
	private String password;


	public CustomerCredential() {}
```

```
	public CustomerCredential(String username, String password) {
		this.username = username;
		this.password = password;
	}


	public int getCustomerId() {
		return CustomerId;
	}


	public void setCustomerId(int customerId) {
		CustomerId = customerId;
	}


	public String getUsername() {
		return username;
	}


	public void setUsername(String username) {
		this.username = username;
	}


	public String getPassword() {
		return password;
	}


	public void setPassword(String password) {
		this.password = password;
	}


	@Override
	public String toString() {
		return "CustomerCredential [CustomerId=" + CustomerId + ", username=" +
username + ", password=" + password
					+ "]";
	}



}
```

```
package com.medicare.api.entity;

import java.util.Date;

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
import com.fasterxml.jackson.annotation.JsonInclude;
import com.fasterxml.jackson.annotation.JsonInclude.Include;

@JsonIgnoreProperties(ignoreUnknown = true)
@JsonInclude(value = Include.NON_DEFAULT)
public class OrderResponse {

	private int CusId;
	private String name;
	private String email;
	private String mobile;
	private String address;
	private String medicineName;
	private String seller;
	private double price;
	private String description;
	private int quantity;
	private Date orderDateTime;


	public OrderResponse() {}


	public OrderResponse(int CusId, String name, String email, String mobile, String address,
String medicineName,
				String seller, double price, String description, int quantity, Date
orderDateTime) {
		this.CusId = CusId;
		this.name = name;
		this.email = email;
		this.mobile = mobile;
		this.address = address;
		this.medicineName = medicineName;
		this.seller = seller;
		this.price = price;
		this.description = description;
		this.quantity = quantity;
		this.orderDateTime = orderDateTime;
	}


	public int getCusId() {
		return CusId;
	}


	public void setCusId(int CusId) {
		this.CusId = CusId;
	}
```

```
public String getName() {
	return name;
}


public void setName(String name) {
	this.name = name;
}


public String getEmail() {
	return email;
}


public void setEmail(String email) {
	this.email = email;
}


public String getMobile() {
	return mobile;
}


public void setMobile(String mobile) {
	this.mobile = mobile;
}


public String getAddress() {
	return address;
}


public void setAddress(String address) {
	this.address = address;
}


public String getMedicineName() {
	return medicineName;
}


public void setMedicineName(String medicineName) {
	this.medicineName = medicineName;
}


public String getSeller() {
	return seller;
}
```

```
	public void setSeller(String seller) {
		this.seller = seller;
	}


	public double getPrice() {
		return price;
	}


	public void setPrice(double price) {
		this.price = price;
	}


	public String getDescription() {
		return description;
	}


	public void setDescription(String description) {
		this.description = description;
	}


	public int getQuantity() {
		return quantity;
	}


	public void setQuantity(int quantity) {
		this.quantity = quantity;
	}


	public Date getOrderDateTime() {
		return orderDateTime;
	}


	public void setOrderDateTime(Date orderDateTime) {
		this.orderDateTime = orderDateTime;
	}



}
```

```
package com.medicare.api.entity;

import java.util.Date;
import java.util.List;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.ManyToMany;
import javax.persistence.PrePersist;
import javax.persistence.Temporal;
import javax.persistence.TemporalType;

import com.fasterxml.jackson.annotation.JsonBackReference;

@Entity
public class Product {

	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int pid;
	private String medicineName;
	private String seller;
	private double price;
	private String description;
	private int quantity;

	@ManyToMany(mappedBy = "products", fetch = FetchType.LAZY)
	@JsonBackReference
	private List<Customer> customers;

	@Temporal(TemporalType.TIMESTAMP)
	@Column(nullable = false)
	private Date orderDateTime;

	@PrePersist
	private void onCreate() {
		orderDateTime = new Date();
	}

	public Product() {}

	public Product(String medicineName, String seller, double price, String description, int
quantity,
			List<Customer> customers, Date orderDateTime) {
		this.medicineName = medicineName;
		this.seller = seller;
		this.price = price;
		this.description = description;
		this.quantity = quantity;
		this.customers = customers;
		this.orderDateTime = orderDateTime;
```

```
	}

	public int getPid() {
		return pid;
	}

	public void setPid(int pid) {
		this.pid = pid;
	}

	public String getMedicineName() {
		return medicineName;
	}

	public void setMedicineName(String medicineName) {
		this.medicineName = medicineName;
	}

	public String getSeller() {
		return seller;
	}

	public void setSeller(String seller) {
		this.seller = seller;
	}

	public double getPrice() {
		return price;
	}

	public void setPrice(double price) {
		this.price = price;
	}

	public String getDescription() {
		return description;
	}

	public void setDescription(String description) {
		this.description = description;
	}

	public int getQuantity() {
		return quantity;
	}

	public void setQuantity(int quantity) {
		this.quantity = quantity;
	}

	public List<Customer> getCustomers() {
		return customers;
	}

	public void setCustomers(List<Customer> customers) {
```

```
		this.customers = customers;
	}

	public Date getOrderDateTime() {
		return orderDateTime;
	}

	public void setOrderDateTime(Date orderDateTime) {
		this.orderDateTime = orderDateTime;
	}

	@Override
	public String toString() {
		return "Product [pid=" + pid + ", medicineName=" + medicineName + ", seller=" +
seller + ", price=" + price
				+ ", description=" + description + ", quantity=" + quantity + ",
customers=" + customers
				+ ", orderDateTime=" + orderDateTime + "]";
	}




}
```

```
package com.medicare.api.entity;

import java.util.Date;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.PrePersist;
import javax.persistence.Temporal;
import javax.persistence.TemporalType;

@Entity
public class ProductList {

	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int productListId;
	private String medicineName;
	private String seller;
	private String qtyDesc;
	private double price;
	private String description;
	private String imgURL;
	private int active=1;

	@Temporal(TemporalType.TIMESTAMP)
	@Column(nullable = false)
	private Date CreationDateTime;
```

```
	@PrePersist
	private void onCreate() {
		CreationDateTime = new Date();
	}

	public ProductList() {}

	public ProductList(String medicineName, String seller, String qtyDesc, double price, String
description, String imgURL,
				int active, Date creationDateTime) {
		this.medicineName = medicineName;
		this.seller = seller;
		this.qtyDesc = qtyDesc;
		this.price = price;
		this.description = description;
		this.imgURL = imgURL;
		this.active = active;
		this.CreationDateTime = creationDateTime;
	}

	public int getProductListId() {
		return productListId;
	}

	public void setProductListId(int productListId) {
		this.productListId = productListId;
	}

	public String getMedicineName() {
		return medicineName;
	}

	public void setMedicineName(String medicineName) {
		this.medicineName = medicineName;
	}

	public String getSeller() {
		return seller;
	}

	public void setSeller(String seller) {
		this.seller = seller;
	}

	public String getQtyDesc() {
		return qtyDesc;
	}

	public void setQtyDesc(String qtyDesc) {
		this.qtyDesc = qtyDesc;
	}

	public double getPrice() {
		return price;
```

```
	}

	public void setPrice(double price) {
		this.price = price;
	}

	public String getDescription() {
		return description;
	}

	public void setDescription(String description) {
		this.description = description;
	}

	public String getImgURL() {
		return imgURL;
	}

	public void setImgURL(String imgURL) {
		this.imgURL = imgURL;
	}

	public int getActive() {
		return active;
	}

	public void setActive(int active) {
		this.active = active;
	}

	public Date getCreationDateTime() {
		return CreationDateTime;
	}

	public void setCreationDateTime(Date creationDateTime) {
		this.CreationDateTime = creationDateTime;
	}

	@Override
	public String toString() {
		return "ProductList [productListId=" + productListId + ", medicineName=" +
medicineName + ", seller=" + seller
				+ ", qtyDesc=" + qtyDesc + ", price=" + price + ", description=" +
description + ", imgURL=" + imgURL
				+ ", active=" + active + ", CreationDateTime=" + CreationDateTime
+ "]";
	}


}
```

```
package com.medicare.api.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.medicare.api.entity.AdminCredential;

@Repository
public interface AdminCredentialRepository extends JpaRepository<AdminCredential, Integer>{

}
```

```
package com.medicare.api.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.medicare.api.entity.Cart;

@Repository
public interface CartRepository extends JpaRepository<Cart, Integer>{

}
```

```
package com.medicare.api.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.medicare.api.entity.CustomerCredential;

@Repository
public interface CustomerCredentialRepository extends JpaRepository<CustomerCredential,
Integer>{

}
```

```
package com.medicare.api.repository;

import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;

import com.medicare.api.entity.Customer;
import com.medicare.api.entity.OrderResponse;

@Repository
public interface CustomerRepository extends JpaRepository<Customer, Integer>{
```

```
	@Query("SELECT new com.medicare.api.entity.OrderResponse(c.CusId,c.name,c.email,
c.mobile, c.address, p.medicineName, p.seller, p.price, p.description, p.quantity,
p.orderDateTime) FROM Customer c JOIN c.products p")
	public List<OrderResponse> joinCustomerProductTable();

}
```

```
package com.medicare.api.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.medicare.api.entity.ProductList;

@Repository
public interface ProductListRepository extends JpaRepository<ProductList, Integer>{

}
```

```
package com.medicare.api.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

import com.medicare.api.entity.Product;

@Repository
public interface ProductRepository extends JpaRepository<Product, Integer>{

}
```

```
package com.medicare.api.service;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.medicare.api.entity.AdminCredential;
import com.medicare.api.repository.AdminCredentialRepository;

@Service
public class AdminCredentialService {

	@Autowired
	private AdminCredentialRepository adminCreRepo;

	// POST Method
		public AdminCredential saveAdminCredential(AdminCredential admincredential) {
			return adminCreRepo.save(admincredential);
		}

		// GET Method
		public List<AdminCredential> getAdminCredentials() {
			return adminCreRepo.findAll();
		}
```

```
	public AdminCredential getAdminCredentialById(int id) {
		return adminCreRepo.findById(id).orElse(null);
	}

	// PUT Method
	public AdminCredential updateAdminCredential(AdminCredential
admincredential, int id) {

		AdminCredential existingAdminCredential =
adminCreRepo.findById(id).orElse(null);
		existingAdminCredential.setUsername(admincredential.getUsername());
		existingAdminCredential.setPassword(admincredential.getPassword());
		return adminCreRepo.save(existingAdminCredential);
	}

}
```

```
package com.medicare.api.service;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.medicare.api.entity.Cart;
import com.medicare.api.repository.CartRepository;

@Service
public class CartService {

	@Autowired
	private CartRepository cartRepo;

	// 1. insert/save the cart data to the database (POST Method)

	public Cart saveCart(Cart cart) {
		return cartRepo.save(cart);
	}

	// 2. get the cart data from database (GET Method)

	public List<Cart> getCarts() {
		return cartRepo.findAll();
	}

	public Cart getCartById(int id) {
		return cartRepo.findById(id).orElse(null);
	}

	// 3. delete the cart data from database (DELETE Method)

	public String deleteCartById(int id) {
		cartRepo.deleteById(id);
		return "Data "+id+" Removed Successfully";
	}
```

```
}
```

```
package com.medicare.api.service;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.medicare.api.entity.CustomerCredential;
import com.medicare.api.repository.CustomerCredentialRepository;

@Service
public class CustomerCredentialService {

	@Autowired
	private CustomerCredentialRepository cusCreRepo;

	// POST Method
	public CustomerCredential saveCustomerCredential(CustomerCredential
customercredential) {
		return cusCreRepo.save(customercredential);
	}

	// GET Method
	public List<CustomerCredential> getCustomerCredentials() {
		return cusCreRepo.findAll();
	}

	public CustomerCredential getCustomerCredentialById(int id) {
		return cusCreRepo.findById(id).orElse(null);
	}

	// PUT Method
	public CustomerCredential updateCustomerCredential(CustomerCredential
customercredential, int id) {
		CustomerCredential existingCustomerCredential =
cusCreRepo.findById(id).orElse(null);
		existingCustomerCredential.setUsername(customercredential.getUsername());
		existingCustomerCredential.setPassword(customercredential.getPassword());
		return cusCreRepo.save(existingCustomerCredential);
	}

}
```

```
package com.medicare.api.service;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.medicare.api.entity.Customer;
import com.medicare.api.entity.OrderResponse;
import com.medicare.api.repository.CustomerRepository;
```

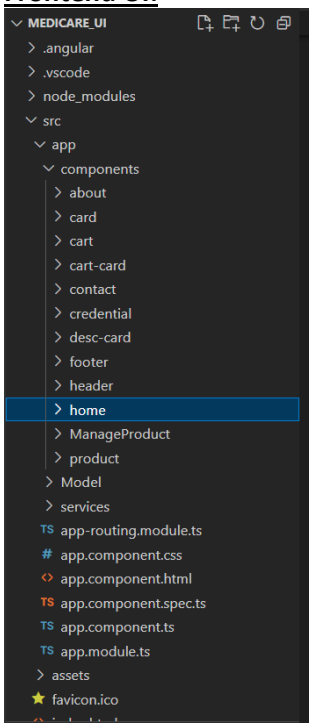
```
@Service
public class CustomerService {

	@Autowired
	private CustomerRepository customerRepo;

	// 1. Save the Customer to the database (POST Method)

	public Customer saveCustomer(Customer customer) {
		return customerRepo.save(customer);
	}

	// 2. fetch the Customer from database (GET Method)

	public List<Customer> getCustomers() {
		return customerRepo.findAll();
	}

	public Customer getCustomerById(int id) {
		return customerRepo.findById(id).orElse(null);
	}

	// 3. delete the Customer from database (Delete)
	public String deleteCustomerById(int id) {
		customerRepo.deleteById(id);
		return "Data "+id+" Deleted Successfully !";
	}

	// Join the Customer & Product Table

	public List<OrderResponse> getCustomerProductJoinInfos() {
		return customerRepo.joinCustomerProductTable();
	}

}
```

```
package com.medicare.api.service;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.medicare.api.entity.ProductList;
import com.medicare.api.repository.ProductListRepository;

@Service
public class ProductListService {

	@Autowired
	private ProductListRepository productListRepo;

	// 1. Save the product list to the database (POST Method)

	public ProductList saveProductList(ProductList productlist) {
		return productListRepo.save(productlist);
```

```
	}

	// 2. get the product list from database (GET Method)

	public List<ProductList> getProductLists() {
		return productListRepo.findAll();
	}

	public ProductList getProductListById(int id) {
		return productListRepo.findById(id).orElse(null);
	}

	// 3. delete the product list from database (DELETE Method)

	public String deleteProductListById(int id) {
		productListRepo.deleteById(id);
		return "Data "+id+" Deleted Successfully";
	}

	// 4. update the product list to the database (PUT Method)

	public ProductList updateProductList(ProductList productlist, int id) {
		ProductList existingProductList = productListRepo.findById(id).orElse(null);
		existingProductList.setMedicineName(productlist.getMedicineName());
		existingProductList.setSeller(productlist.getSeller());
		existingProductList.setQtyDesc(productlist.getQtyDesc());
		existingProductList.setPrice(productlist.getPrice());
		existingProductList.setDescription(productlist.getDescription());
		existingProductList.setImgURL(productlist.getImgURL());
		return productListRepo.save(existingProductList);
	}
}
```

Project Structure:

Frontend UI:



About Component HTML:

```
<section>
  <div class="content-indentation">
    <div class="data">
      <div class="data-header">
       <h1>About</h1>
      </div>
      <div class="data-body">
       <p>
          Medicare is a company that supplies medicines and a couple of other healthcare
essentials at an affordable price.
          It was established in 2012 in Delhi, India.
       </p>
      </div>
    </div>
  </div>
</section>
```

```
import { Component } from '@angular/core';

@Component({
 selector: 'app-about',
 templateUrl: './about.component.html',
 styleUrls: ['./about.component.css']
})
export class AboutComponent {

}
```

Card Component HTML:

```
<div class="container">
  <div class="row row-cols-3 mb-5">

    <!-- single item -->
    <div class="col" *ngFor="let prod of productList | filter: filterData">
     <section class="mx-auto cus-inden" style="max-width: 23rem;">
       <div class="card">
        <div class="bg-image hover-overlay ripple" data-bs-ripple-color="light">
         <img src={{prod.imgURL}} class="img-fluid" />
        </div>
        <div class="card-body">
         <h5 class="card-title font-weight-bold"><a>{{prod.medicineName}}</a></h5>
         <p class="mb-2">{{prod.seller}}</p>
         <ul class="list-unstyled list-inline mb-0">
          <li class="list-inline-item">
           <p class="text-muted">{{prod.qtyDesc}} Tablet(s) in Strip</p>
          </li>

          <li class="list-inline-item">
           <h4><span class="badge bg-warning text-dark rounded-pill">{{prod.price | currency:
'INR'}}</span></h4>
          </li>

         </ul>
         <p class="card-text">
          {{prod.description}}
         </p>
```

```
            <button class="cus-btn" (click)="order(prod.medicineName, prod.seller, prod.price,
prod.description, prod.imgURL, prod.qtyDesc)">
                <span class="label">Add to Cart</span>
                <span class="icon">
                  <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24" width="24"
height="24"><path fill="none" d="M0 0h24v24H0z"></path><path fill="currentColor"
d="M16.172 11l-5.364-5.364 1.414-1.414L20 12l-7.778 7.778-1.414-1.414L16.172 13H4v-
2z"></path></svg>
                </span>
              </button>
            </div>
          </div>
        </section>
    </div>
    <!-- Single Item -->

  </div><br><br>
 </div>
```

```
import { MedicareService } from 'src/app/services/medicare.service';
import { Router } from '@angular/router';
import { Component, Input, OnInit } from '@angular/core';
import { ProductList } from 'src/app/Model/product-list/product-list';
import { Cart } from 'src/app/Model/Cart/cart';

@Component({
 selector: 'app-card',
 templateUrl: './card.component.html',
 styleUrls: ['./card.component.css']
})
export class CardComponent implements OnInit{

 @Input() filterData:string;
 productList: ProductList[];
 proList:ProductList;
 proCart: Cart;
 constructor(private router:Router, private medicareService: MedicareService) {}

 ngOnInit(): void {
  this.medicareService.getAllProductList().subscribe(data => this.productList = data);
 }

 order(medicine: any, seller: any, price: any, desc: any, url:any, qtyDesc: any ) {

  this.proCart = {
   medicineName: medicine,
   seller: seller,
   price: price,
   description: desc,
   imgURL: url,
   quantity: qtyDesc
  }

  this.medicareService.saveCart(this.proCart).subscribe(x=>console.log(x));
```

```
   this.router.navigate(['/cart']);
   // console.log(this.proCart);

   // console.log(JSON.stringify(proCart))
  }

}
```

Cart Component HTML:

```
<Section>
   <div class="content-indentation">
      <app-cart-card></app-cart-card>
   </div>
</Section>
```

```
import { Component } from '@angular/core';

@Component({
 selector: 'app-cart',
 templateUrl: './cart.component.html',
 styleUrls: ['./cart.component.css']
})
export class CartComponent {

}
```

Cart-Card Component HTML:

```
<section class="h-100 gradient-custom">
 <div class="container py-5">
  <div class="row d-flex justify-content-center my-4">
   <div class="col-md-8">
    <div class="card mb-4">
     <div class="card-header py-3">
      <h5 class="mb-0">Cart - {{cartData.length}} items</h5>
     </div>
     <div class="card-body">

      <!-- Single item -->
      <div class="row" *ngFor="let cart of cartData">

       <div class="col-lg-3 col-md-12 mb-4 mb-lg-0">
        <div class="bg-image hover-overlay hover-zoom ripple rounded" data-mdb-ripple-
color="light">
         <img src={{cart.imgURL}} class="w-100" alt="Blue Jeans Jacket" />
         <a href="#!">
          <div class="mask" style="background-color: rgba(251, 251, 251, 0.2)"></div>
         </a>
        </div>
       </div>

       <div class="col-lg-5 col-md-6 mb-4 mb-lg-0">
        <p><strong>Medicine Name: </strong>{{cart.medicineName | titlecase}}</p>
        <!-- <p>{{cart.cartId}}</p> -->
        <p><strong>Seller/Brand: </strong>{{cart.seller | titlecase}}</p>
        <p><strong>Quantity: </strong>{{cart.quantity}} Tablet(s) in Strip</p>
        <p><strong>Description: </strong>{{cart.description | titlecase}}</p>
```

```
            <button type="button" (click)="deleteCart(cart)" class="btn btn-danger btn-sm me-1 mb-
2"
              data-bs-toggle="tooltip" title="Remove item">
              <i class="bi bi-trash3-fill"></i>
            </button>
          </div>

          <div class="col-lg-4 col-md-6 mb-4 mb-lg-0">

            <div class="d-flex mb-4" style="max-width: 300px">
              <button class="btn btn-custom px-3 me-2" style="height: 37px;" (click)="dec(qty.value)"
                onclick="this.parentNode.querySelector('input[type=number]').stepDown()">
                <i class="bi bi-dash-lg"></i>
              </button>

              <div class="form-outline">
                <input id="form1" min="0" name="quantity" value="1" #qty type="number"
class="form-control" />
                <label class="form-label" for="form1">Quantity</label>
              </div>

              <button class="btn btn-custom px-3 ms-2" style="height: 37px;" (click)="dec(qty.value)"
                onclick="this.parentNode.querySelector('input[type=number]').stepUp()">
                <i class="bi bi-plus-lg"></i>
              </button>
            </div>

            <p class="text-start text-md-center">
              <strong>{{cart.price*qtyVal | currency: 'INR'}}</strong>
            </p>

          </div>
          <hr class="my-4" />
        </div>
        <!-- Single item -->


      </div>
    </div>
  </div>

  <div class="col-md-4">
    <div class="card mb-4">
      <div class="card-header py-3">
        <h5 class="mb-0">Customer Details</h5>
      </div>
      <div class="card-body">
        <form>
          <div class="row g-3">

            <div class="col-lg-8">
              <label class="form-label">Name</label>
              <input type="text" required class="form-control" placeholder="name" #name >
            </div>
```

```
            <div class="col-lg-4">
              <label class="form-label">Age</label>
              <input type="text" required class="form-control" placeholder="age" #age>
            </div>

            <div class="col-lg-4">
              <label class="form-label">Gender</label>
              <input type="text" required class="form-control" placeholder="gender" #gender>
            </div>
            <div class="col-lg-8">
              <label class="form-label">E-mail</label>
              <input type="text" required class="form-control" placeholder="email" #email>
            </div>
            <div class="col-lg-12">
              <label class="form-label">Address</label>
              <input type="text" required class="form-control" placeholder="address" #address>
            </div>
            <div class="col-lg-12">
              <label class="form-label">Mobile</label>
              <input type="text" required class="form-control" placeholder="mobile number"
#mobile>
            </div>
            <div class="col-lg-12">
              <button type="button"
                (click)="placeOrder(cartData, name.value, age.value, gender.value, email.value,
address.value, mobile.value)"
                class="btn  btn-custom">
                Place Order
              </button>
            </div>
          </div>
        </form>


       </div>
      </div>
     </div>
    </div>
  </div>
</section>
```

```
import { Cart } from './../../Model/Cart/cart';
import { MedicareService } from 'src/app/services/medicare.service';
import { Router } from '@angular/router';
import { Component, OnInit } from '@angular/core';
import { Customer } from 'src/app/Model/Customer/customer';

@Component({
 selector: 'app-cart-card',
 templateUrl: './cart-card.component.html',
 styleUrls: ['./cart-card.component.css']
})
export class CartCardComponent implements OnInit{

 cartData: Cart[];
 customer: Customer;
```

```
  constructor(private router: Router, private medicareService: MedicareService) {
  // this.proId = this.router.getCurrentNavigation()?.extras.state?.['pid'];
  }



  ngOnInit(): void {
    this.medicareService.getAllCarts().subscribe(x => this.cartData = x);
  }

  deleteCart(cart: Cart) {
    // console.log(cart.cartId);
    this.cartData = this.cartData.filter(data => data.cartId !== cart.cartId);
    this.medicareService.deleteCartById(Number(cart.cartId)).subscribe(x=> console.log(x));

    this.router.navigate(['/cart']);
  }

  qtyVal: number = 1;

  dec(dec: any) {
    this.qtyVal = Number(dec);
  }

  placeOrder(cartAllData: any, name: any, age: any, gen: any, email: any, add: any, mob: any) {

    // console.log(name);
    // console.log(age);
    // console.log(gen);
    // console.log(email);
    // console.log(add);
    // console.log(mob);
    // console.log(this.qtyVal);
    // console.log(cartAllData);

    this.customer = {
    name: name,
    age: age,
    gender: gen,
    email: email,
    address: add,
    mobile: mob,
    products: cartAllData
  }

  // console.log(this.customer);

  this.medicareService.placeOrder(this.customer).subscribe(x=>console.log(x));
  alert("Your Order Placed Successfully !");
  this.router.navigate(['/home']);
  }


}
```

Contact Component HTML:

```
<section>
  <div class="content-indentation">
    <div class="data">
      <div class="data-header">
       <h1>Contact</h1>
      </div>
      <div class="data-body">
       <div class="data-text">
          <p class="icon me-5"><strong><i class="bi bi-envelope-at-fill"></i></strong></p>
          <p>care@medicare.com</p>
       </div>

       <div class="data-text">
          <p class="icon me-5"><i class="bi bi-telephone-outbound-fill"></i></p>
          <p>+91 99999-88888</p>
       </div>

       <div class="data-text">
          <p class="icon me-5"><i class="bi bi-buildings-fill"></i></p>
          <p>Delhi, India - 110096</p>
       </div>
      </div>
    </div>
  </div>
</section>
```

```
import { Component } from '@angular/core';

@Component({
 selector: 'app-contact',
 templateUrl: './contact.component.html',
 styleUrls: ['./contact.component.css']
})
export class ContactComponent {

}
```

Admin Component HTML:

```
<section class="content-center">
  <div class="login-box">
    <p>Admin</p>
    <form>
      <div class="user-box">
        <input required type="text" #user>
        <label>Username</label>
      </div>
      <div class="user-box">
        <input required type="text" #pass>
        <label>Password</label>
      </div>
      <a class="custom-btn" (click)="adminCred(user.value, pass.value)">
        <span></span>
        <span></span>
        <span></span>
        <span></span>
        Submit
```

```
        </a>
      </form>
      <p>Change Your Password? <a class="a2" (click)="changeAdmin()">Click</a></p>
    </div>
</section>
```

```
import { MedicareService } from 'src/app/services/medicare.service';
import { AdminCreden } from './../../../Model/Credential/Admin/admin-creden';
import { Router } from '@angular/router';
import { Component, OnInit } from '@angular/core';

@Component({
 selector: 'app-admin',
 templateUrl: './admin.component.html',
 styleUrls: ['./admin.component.css']
})
export class AdminComponent implements OnInit{


 adminCreden: AdminCreden[];
 constructor(private router: Router, private medicareService: MedicareService) {}

 ngOnInit(): void {
  this.medicareService.getAllAdmin().subscribe(data => this.adminCreden = data);
 }

 adminCred(user: any, pass: any) {
  // console.log(this.adminCreden[0]);
  for(let x of this.adminCreden){
   // console.log(x.username);
   // console.log(x.password);
   // console.log(user+" "+pass);
   if(x.username == user && x.password == pass) {
    // console.log("you are Logged In");
    this.router.navigate(['/manage-product'],{state: {u: x.username}});
   }else{
    alert("You Entered Wrong username & Password ! Try Again !");
   }
  }
 }


 changeAdmin() {
  this.router.navigate(['/manage-product/change-password']);
 }

}
```

Login Component HTML:

```
<section class="content-center">
  <div class="login-box">
    <p>Login</p>
    <form>
      <div class="user-box">
        <input required type="text" #custUser>
        <label>Username</label>
      </div>
```

```
        <div class="user-box">
          <input required type="text" #custPass>
          <label>Password</label>
        </div>
        <a class="custom-btn" (click)="login(custUser.value, custPass.value)">
          <span></span>
          <span></span>
          <span></span>
          <span></span>
          Login
        </a>
      </form>
      <p>Don't have an account? <a class="a2" (click)="switchSignUp()">Sign Up</a></p>
    </div>
</section>
<!-- Forgot Your Password -->
```

```
import { MedicareService } from 'src/app/services/medicare.service';
import { CustomerCreden } from './../../../Model/Credential/Customer/customer-creden';
import { Router } from '@angular/router';
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-login',
  templateUrl: './login.component.html',
  styleUrls: ['./login.component.css']
})
export class LoginComponent implements OnInit{

  customerCreden: CustomerCreden[];

  constructor(private router: Router, private medicareService: MedicareService) {}

  ngOnInit(): void {
    this.medicareService.getAllCustomerCreden().subscribe(data => this.customerCreden = data);
  }

  login(custUser:any, custPass:any) {

    console.log(custUser+" "+custPass);
    for(let x of this.customerCreden) {

      if(x.username == custUser && x.password == custPass) {
        this.router.navigate(['/product']);
      }
    }

  }

  switchSignUp(): any {
    this.router.navigate(['signup']);
  }

}
```

Signup component HTML:

```
<section class="content-center">
  <div class="login-box">
    <p>Sign Up</p>
    <form>
      <div class="user-box">
        <input required type="text" #username>
        <label>Username</label>
      </div>
      <div class="user-box">
        <input required type="text" #password>
        <label>Password</label>
      </div>
      <a class="custom-btn" (click)="signup(username.value, password.value)">
        <span></span>
        <span></span>
        <span></span>
        <span></span>
        Sign Up
      </a>
    </form>
    <p>Already you have an account? <a class="a2" (click)="switchLogin()">Login</a></p>
  </div>
</section>
```

```
import { MedicareService } from 'src/app/services/medicare.service';
import { CustomerCreden } from './../../../Model/Credential/Customer/customer-creden';
import { Router } from '@angular/router';
import { Component } from '@angular/core';

@Component({
  selector: 'app-signup',
  templateUrl: './signup.component.html',
  styleUrls: ['./signup.component.css']
})
export class SignupComponent {

  custCreden: CustomerCreden;

  constructor(private router: Router, private medicareService: MedicareService) {}


  signup(username:any, password:any) {
    // console.log(username+" "+password);

    this.custCreden = {
      username: username,
      password: password
    }

    this.medicareService.saveCustomerCreden(this.custCreden).subscribe(x=> alert("you Data Save
Successfully ! Now You Can Logged In."));
  }

  switchLogin(): any {
```

```
   this.router.navigate(['login']);
  }

}
```

Footer Component HTML:

```
<footer class="text-center text-white fixed-bottom" style="background-color: #3cb876;">
   <div class="text-center p-3" style="background-color: rgba(0, 0, 0, 0.2);">
      Design and Developed by : Kavin K R
   </div>
 </footer>
```

Header Component HTML:

```
<nav class="navbar navbar-expand-lg navbar-light fixed-top mask-custom shadow-0">
   <div class="container">
    <a class="navbar-brand" routerLink="home">
      <span class="logo-1">Medi</span>
      <span class="logo-2">Care</span>
   </a>
    <button class="navbar-toggler mob-nav-bar" type="button" data-bs-toggle="collapse"
      data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false"
      aria-label="Toggle navigation">
      <i class="bi bi-list-nested"></i>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">

      <ul class="navbar-nav me-auto ms-5" >

        <li class="nav-item">
          <a class="nav-link medicare-navlink ms-5" routerLink="product">Product</a>
        </li>

        <li class="nav-item">
          <a class="nav-link medicare-navlink ms-5" routerLink="about">About</a>
        </li>

        <li class="nav-item">
          <a class="nav-link medicare-navlink ms-5" routerLink="contact">Contact</a>
        </li>

        <li class="nav-item">
          <a class="nav-link medicare-navlink ms-5" routerLink="manage-product"
*ngIf="adminName">Manage Product</a>
        </li>

      </ul>

      <ul class="navbar-nav d-flex flex-row">
        <li class="nav-item me-3 me-lg-0">
          <a class="nav-link credential" routerLink="signup">
            <i class="bi bi-person"></i> Sign Up
          </a>
        </li>

        <li class="nav-item me-3 me-lg-0">
          <a class="nav-link credential" routerLink="login">
```

```
          <i class="bi bi-box-arrow-in-right"></i> Login
         </a>
        </li>

        <li class="nav-item me-3 me-lg-0">
         <a class="nav-link credential" routerLink="admin">
          <i class="bi bi-shield-lock-fill"></i> Admin
         </a>
        </li>

        <li class="nav-item me-3 me-lg-0">
         <a class="nav-link credential" routerLink="cart">
          <i class="bi bi-cart-fill"></i> Cart
         </a>
        </li>

      </ul>
    </div>
  </div>
 </nav>
```

```
import { Component } from '@angular/core';

@Component({
 selector: 'app-header',
 templateUrl: './header.component.html',
 styleUrls: ['./header.component.css']
})
export class HeaderComponent{

 adminName: any = true;

}
```

Home Component HTML:

```
<div class="content-indentation">
   <div class="content-center">
      <ngx-typed-js [strings]="['MediCare']" [loop]="true" [typeSpeed]="170" [backSpeed]="170"
[startDelay]="300" [backDelay]="1000">
         <h1>Welcome to <span class="typing"></span></h1>
       </ngx-typed-js>
      <button (click)="product()">
         <span>ORDER NOW</span><i></i>
      </button>
   </div>
</div>
```

```
import { Component } from '@angular/core';
import { Router } from '@angular/router';


@Component({
 selector: 'app-home',
 templateUrl: './home.component.html',
 styleUrls: ['./home.component.css']
})
export class HomeComponent {
```

```
  constructor(private router: Router) {}

  product(): any {
    this.router.navigate(['/login']);
  }

}
```

Add Product Component HTML:

```
<section>
  <div class="add-pro">
    <h1>Add Product</h1>
    <div class="form-container">

      <form [formGroup]="addProductForm" (ngSubmit)="onSubmit()">
        <div class="row g-3">
          <div class="col-md-4">
            <label class="form-label">Medicine Name</label>
            <input type="text" placeholder="medicine name" formControlName="name" class="form-
control" [(ngModel)]="productList.medicineName"
              [ngClass]="{'is-invalid':submitted && form['name'].errors}">

            <div *ngIf="submitted && form['name'].errors" class="invalid-feedback">
              Medicine Name Cannot be Empty
            </div>
          </div>

          <div class="col-md-4">
            <label class="form-label">Seller</label>
            <input type="text" placeholder="Seller/Brand name" formControlName="seller"
class="form-control" [(ngModel)]="productList.seller"
              [ngClass]="{'is-invalid':submitted && form['seller'].errors}">

            <div *ngIf="submitted && form['seller'].errors" class="invalid-feedback">
              Seller/Brand Cannot be Empty
            </div>
          </div>

          <div class="col-md-4">
            <label class="form-label">Image URL</label>
            <input type="text" placeholder="medicine image url" formControlName="url" class="form-
control" [(ngModel)]="productList.imgURL"
              [ngClass]="{'is-invalid':submitted && form['url'].errors}">

            <div *ngIf="submitted && form['url'].errors" class="invalid-feedback">
              Medicine Image URL Cannot be Empty
            </div>
          </div>

          <div class="col-md-4">
            <label class="form-label">Medicine Qty (in a Strip)</label>
            <input type="text" placeholder="medicine Quantity in a strip" formControlName="qty"
class="form-control" [(ngModel)]="productList.qtyDesc"
              [ngClass]="{'is-invalid':submitted && form['qty'].errors}">
```

```
        <div *ngIf="submitted && form['qty'].errors" class="invalid-feedback">
          Medicine Quantity Cannot be Empty
        </div>
       </div>

       <div class="col-md-2">
        <label class="form-label">Price</label>
        <input type="text" placeholder="medicine price" formControlName="price" class="form-
control" [(ngModel)]="productList.price"
          [ngClass]="{'is-invalid':submitted && form['price'].errors}">

        <div *ngIf="submitted && form['price'].errors" class="invalid-feedback">
          Price Cannot be Empty
        </div>
       </div>

       <div class="col-md-6">
        <label class="form-label">Description</label>
        <input type="text" placeholder="description of medicine" formControlName="desc"
class="form-control" [(ngModel)]="productList.description"
          [ngClass]="{'is-invalid':submitted && form['desc'].errors}">

        <div *ngIf="submitted && form['desc'].errors" class="invalid-feedback">
          Description Cannot be Empty
        </div>
       </div>
       <br>
       <div class="col-12">
        <button class="btn btn-success">Submit</button>
       </div>
      </div>
    </form>
   </div>
  </div>

</section>
```

```
import { MedicareService } from './../../../services/medicare.service';
import { Router } from '@angular/router';
import { Component, OnInit } from '@angular/core';
import { FormBuilder, FormGroup, Validators } from '@angular/forms';
import { ProductList } from 'src/app/Model/product-list/product-list';


@Component({
  selector: 'app-add-product',
  templateUrl: './add-product.component.html',
  styleUrls: ['./add-product.component.css']
})
export class AddProductComponent implements OnInit {

  productList: ProductList = new ProductList();

  constructor(private builder:FormBuilder, private router: Router, private medicareService:
MedicareService) {}
```

```
 addProductForm:FormGroup;
 submitted:boolean=false;
 ngOnInit(): void {
  this.addProductForm=this.builder.group({
    name:['',Validators.required],
    seller:['',Validators.required],
    url:['',Validators.required],
    qty:['',Validators.required],
    price:['',Validators.required],
    desc:['',Validators.required],
  })
 }

 get form(){
  return this.addProductForm.controls;
 }

 onSubmit() {
  // console.log(this.productList);
  this.submitted=true;
  if(this.addProductForm.invalid){
    return
  }else {
    // console.log(this.productList);
    this.medicareService.saveProductList(this.productList).subscribe(data => console.log(data));
    this.router.navigate(['/manage-product']);
  }
 }

}
```

Change Password Component HTML:

```
<section>
  <div class="change-pass">
    <h1>Change Admin Password</h1>
    <div class="login-box">
      <form>
        <div class="user-box">
          <input required="" name="" type="text">
          <label>Enter Old Password</label>
        </div>
        <div class="user-box">
          <input required="" name="" type="password">
          <label>Set New Password</label>
        </div>
        <div>
          <a href="#">
            SEND
            <span></span>
          </a>
        </div>
      </form>
    </div>
  </div>
</section>
```

Edit Product component HTML:

```
<section>
   <div class="update-pro">
    <h1>Update My Product : {{prodList.productListId}}</h1>
    <div class="form-container">

     <form [formGroup]="updateProductForm" (ngSubmit)="onUpdate()">
      <div class="row g-3">
       <div class="col-md-4">
        <label class="form-label">Medicine Name</label>
        <input type="text" placeholder="medicine name" formControlName="name" class="form-
control" [(ngModel)]="prodList.medicineName"
         [ngClass]="{'is-invalid':submitted && form['name'].errors}">

        <div *ngIf="submitted && form['name'].errors" class="invalid-feedback">
         Medicine Name Cannot be Empty
        </div>
       </div>

       <div class="col-md-4">
        <label class="form-label">Seller</label>
        <input type="text" placeholder="Seller/Brand name" formControlName="seller"
class="form-control" [(ngModel)]="prodList.seller"
         [ngClass]="{'is-invalid':submitted && form['seller'].errors}">

        <div *ngIf="submitted && form['seller'].errors" class="invalid-feedback">
         Seller/Brand Cannot be Empty
        </div>
       </div>

       <div class="col-md-4">
        <label class="form-label">Image URL</label>
        <input type="text"  placeholder="medicine image url" formControlName="url"
class="form-control" [(ngModel)]="prodList.imgURL"
         [ngClass]="{'is-invalid':submitted && form['url'].errors}">

        <div *ngIf="submitted && form['url'].errors" class="invalid-feedback">
         Medicine Image URL Cannot be Empty
        </div>
       </div>

       <div class="col-md-4">
        <label class="form-label">Medicine Qty (in a Strip)</label>
        <input type="text" placeholder="medicine Quantity in a strip" formControlName="qty"
class="form-control" [(ngModel)]="prodList.qtyDesc"
         [ngClass]="{'is-invalid':submitted && form['qty'].errors}">

        <div *ngIf="submitted && form['qty'].errors" class="invalid-feedback">
         Medicine Quantity Cannot be Empty
        </div>
       </div>

       <div class="col-md-2">
        <label class="form-label">Price</label>
```

```
          <input type="text" placeholder="medicine price" formControlName="price" class="form-
control" [(ngModel)]="prodList.price"
            [ngClass]="{'is-invalid':submitted && form['price'].errors}">

          <div *ngIf="submitted && form['price'].errors" class="invalid-feedback">
            Price Cannot be Empty
          </div>
         </div>

         <div class="col-md-6">
          <label class="form-label">Description</label>
          <input type="text" placeholder="description of medicine" formControlName="desc"
class="form-control" [(ngModel)]="prodList.description"
            [ngClass]="{'is-invalid':submitted && form['desc'].errors}">

          <div *ngIf="submitted && form['desc'].errors" class="invalid-feedback">
            Description Cannot be Empty
          </div>
         </div>
         <br>
         <div class="col-12">
          <button class="btn btn-success">Update</button>
         </div>
        </div>
       </form>
     </div>
   </div>

  </section>
```

```
import { ActivatedRoute, Router } from '@angular/router';
import { MedicareService } from 'src/app/services/medicare.service';
import { FormGroup, FormBuilder, Validators } from '@angular/forms';
import { Component, OnInit } from '@angular/core';
import { ProductList } from 'src/app/Model/product-list/product-list';

@Component({
  selector: 'app-edit-product',
  templateUrl: './edit-product.component.html',
  styleUrls: ['./edit-product.component.css']
})
export class EditProductComponent implements OnInit {

  prodList: ProductList;
  id: string|null;
  updateProductForm:FormGroup;
  submitted: boolean = false;

  constructor(private medicareService: MedicareService, private activatedRoute: ActivatedRoute,
private builder: FormBuilder, private router: Router) {}



  ngOnInit(): void {

    this.id = this.activatedRoute.snapshot.paramMap.get('id');
    // alert(this.id);
```

```
  this.medicareService.getProductListById(Number(this.id)).subscribe(x=> this.prodList=x);

  this.updateProductForm = this.builder.group({
    name:['',Validators.required],
    seller:['',Validators.required],
    url:['',Validators.required],
    qty:['',Validators.required],
    price:['',Validators.required],
    desc:['',Validators.required],
  })

 }

 get form() {
  return this.updateProductForm.controls;
 }

 onUpdate() {
  this.submitted = true;
  if(this.updateProductForm.invalid){
    return
  }
  else{
    // console.log(this.prodList);
    this.medicareService.updateProductList(this.prodList,
Number(this.id)).subscribe(x=>console.log(x));
    alert("Data Updated Successfully !");
    this.router.navigate(['manage-product']);
  }
 }

}
```

Home-product component HTML:

```
<section>
  <div class="content-indentation">
    <div class="row">
      <div class="col-lg-2 nav-product">
        <ul class="nav flex-column">

          <li class="nav-item">
            {{username}}
          </li>
          <li class="nav-item">
            <a class="nav-link active" routerLink="product-list">
              <button>Product List</button>
            </a>
          </li>

          <li class="nav-item">
            <a class="nav-link" routerLink="add-product">
              <button>Add Product</button>
            </a>
          </li>

          <li class="nav-item">
```

```
                <a class="nav-link" routerLink="order-list">
                  <button>Order List</button>
                </a>
              </li>

              <li class="nav-item">
                <a class="nav-link" routerLink="change-password">
                  <button>Change Password</button>
                </a>
              </li>

            </ul>
          </div>
          <div class="col-lg-10">
            <router-outlet></router-outlet>
          </div>
        </div>
    </div>
</section>
```

```
import { Router } from '@angular/router';
import { Component, OnInit } from '@angular/core';

@Component({
 selector: 'app-home-product',
 templateUrl: './home-product.component.html',
 styleUrls: ['./home-product.component.css']
})
export class HomeProductComponent implements OnInit{

 username: any;

 constructor(private router: Router) {
  this.username = this.router.getCurrentNavigation()?.extras.state?.['u'];
  // console.log(this.username);
 }
 ngOnInit(): void {

 }



}
```

Order-List component HTML:

```
<section>
  <div class="or-list">
    <h1>Order List</h1>
    <div class="table-responsive">
    <table class="table table-dark table-striped table-hover table-borderless align-middle">
      <thead>
       <tr>
        <th>C.ID</th>
        <th>Name</th>
        <th>email</th>
        <th>Mobile</th>
        <th>Address</th>
```

```
            <th>Medicine Name</th>
            <th>Seller</th>
            <th>Price</th>
            <th>Description</th>
            <th>Quantity</th>
            <th>Date/Time</th>
            <th>Operations</th>
          </tr>
        </thead>
        <tbody>
          <!-- single  -->
          <tr *ngFor="let order of orderList">
            <td>{{order.cusId}}</td>
            <td>{{order.name | titlecase}}</td>
            <td>{{order.email}}</td>
            <td>{{order.mobile}}</td>
            <td>{{order.address | titlecase}}</td>
            <td>{{order.medicineName | titlecase}}</td>
            <td>{{order.seller | titlecase}}</td>
            <td>{{order.price | currency: 'INR'}}</td>
            <td>{{order.description}}</td>
            <td>{{order.quantity}}</td>
            <td>{{order.orderDateTime | date: 'd MMM y, h:mm:ss a'}}</td>
            <td>
              <button class="btn btn-danger" (click)="orderDelete(order.cusId)">Delete</button>
            </td>
          </tr>
          <!-- single -->
        </tbody>
      </table>
    </div>
  </div>
</section>
```

```
import { Customer } from './../../../Model/Customer/customer';
import { MedicareService } from 'src/app/services/medicare.service';
import { Router } from '@angular/router';
import { Component, OnInit } from '@angular/core';

@Component({
 selector: 'app-order-list',
 templateUrl: './order-list.component.html',
 styleUrls: ['./order-list.component.css']
})
export class OrderListComponent implements OnInit{

 orderList: any;

 constructor(private router: Router, private medicareService: MedicareService) {}

 ngOnInit(): void {
  this.medicareService.getAllOrderList().subscribe(data => this.orderList = data);
 }

 orderDelete(id: number) {
```

```
  this.medicareService.deleteCustomerProductDetailsById(Number(id)).subscribe(data =>
console.log(data));
  this.orderList = this.orderList.filter((x: { cusId: number; }) => x.cusId !== id)
 }


}
```

Product-details component HTML:

```
<section>
  <div class="pro-details">
    <table class="table table-dark table-borderless">

      <div class="custom-content">
        <tr>
          <td>
            <h1>Product Details : {{productList.productListId}}</h1>
          </td>
        </tr>
        <tr>
          <td><strong>Medicine Name: </strong> {{productList.medicineName}}</td>

        </tr>
        <tr>
          <td><strong>Seller: </strong> {{productList.seller}}</td>
        </tr>
        <tr>
          <td><strong>Price: </strong>{{productList.price | currency: 'INR'}}</td>
        </tr>
        <tr>
          <td><strong>Qty Desc: </strong>{{productList.qtyDesc}}</td>
        </tr>
        <tr>
          <td><strong>Active: </strong>{{productList.active}}</td>
        </tr>
        <tr>
          <td><strong>Date/Time: </strong>{{ productList.creationDateTime | date:'d MMM y,
h:mm:ss a'}}</td>
        </tr>
        <tr>
          <td><strong>Image URL: </strong>{{productList.imgURL}}</td>
        </tr>
        <tr>
          <td><strong>Description: </strong>{{productList.description}}</td>
        </tr>

      </div>
    </table>
  </div>
</section>
```

```
import { MedicareService } from './../../../services/medicare.service';
// import { IProductList } from './../../../interfaces/product-list/product-list';
import { Component, OnInit } from '@angular/core';
import { ActivatedRoute } from '@angular/router';

@Component({
```

```
 selector: 'app-product-details',
 templateUrl: './product-details.component.html',
 styleUrls: ['./product-details.component.css']
})
export class ProductDetailsComponent implements OnInit {

 productList: any;
 constructor(private activatedRoute: ActivatedRoute, private medicareService: MedicareService)
{}

 ngOnInit(): void {
  const id = this.activatedRoute.snapshot.paramMap.get('id');
  this.medicareService.getProductListById(Number(id)).subscribe(d => this.productList = d);


  // this.activatedRoute.params.subscribe( (params) => {
  //   this.medicareService.getProductListById(+params['id']).subscribe(data => this.productList =
data);
  // });

 }
}
```

Product-list component HTML:

```
<section>
  <div class="pro-list">
    <h1>Product List</h1>
    <table class="table table-dark table-striped table-hover table-borderless">
      <thead>
       <tr>
        <th scope="col">P. ID</th>
        <th scope="col">Medicine Name</th>
        <th scope="col">Seller</th>
        <th scope="col">Price</th>
        <th scope="col">Description</th>
        <th scope="col">Image URL</th>
        <th scope="col">Qty Desc</th>
        <th scope="col">Active</th>
        <th scope="col">Date/Time</th>
        <th scope="col">Operations</th>
       </tr>
      </thead>
      <tbody>

       <!-- Single Cell -->
       <tr *ngFor="let proList of productList">
        <td>{{ proList.productListId }}</td>
        <td>{{ proList.medicineName | slice:0:16 }}</td>
        <td>{{ proList.seller | slice:0:10}}</td>
        <td>{{ proList.price | currency: 'INR' }}</td>
        <td>{{ proList.description | slice:0:19}}</td>
        <td>{{ proList.imgURL | slice:0:20}}</td>
        <td>{{ proList.qtyDesc | slice:0:9 }}</td>
        <td>{{ proList.active }}</td>
        <td>{{ proList.creationDateTime | date:'d MMM y, h:mm:ss a'}}</td>
        <td>
```

```
            <button class="btn btn-success" routerLink="/product-details/{{ proList.productListId
}}">View</button>

            <button class="btn btn-primary mx-2" routerLink="./edit-
product/{{proList.productListId}}">Edit</button>

            <button class="btn btn-danger"
(click)="delete(proList.productListId)">Delete</button>
          </td>
        </tr>
        <!-- Single Cell  -->

      </tbody>
    </table>
  </div>
</section>
```

```
// import { IProductList } from './../../../interfaces/product-list/product-list';
import { MedicareService } from './../../../services/medicare.service';
import { Component, OnInit } from '@angular/core';
import { ProductList } from 'src/app/Model/product-list/product-list';

@Component({
 selector: 'app-product-list',
 templateUrl: './product-list.component.html',
 styleUrls: ['./product-list.component.css']
})
export class ProductListComponent implements OnInit{

 // Injected medicare service dependency in component(here...)
 constructor(private medicareService: MedicareService) {}

 productList: ProductList[];

 ngOnInit(): void {
  this.medicareService.getAllProductList().subscribe(data => this.productList = data);
 }

 delete(id: number) {
  this.medicareService.deleteProductList(id).subscribe(data => console.log(data));
  this.productList = this.productList.filter((data) => {
   return data.productListId != id;
  });


 }

}
```

Product component HTML:

```
<section>
  <div class="content-indentation">
    <div class="container">
      <div>
        <div class="input-group rounded">
          <input type="text" class="form-control rounded" placeholder="Search"
[(ngModel)]="enteredData"/>
```

```
            </div>
          </div>
      </div>
      <app-card [filterData] = "enteredData"></app-card>
   </div>
</section>
```

```
import { Component } from '@angular/core';

@Component({
 selector: 'app-product',
 templateUrl: './product.component.html',
 styleUrls: ['./product.component.css']
})
export class ProductComponent {

 enteredData: string;

}
```

```
export class Cart {
   cartId?: number;
            medicineName: string;
            seller: string;
            price: number;
            description: string;
            imgURL: string;
            quantity: number
}
```

```
export class AdminCreden {
   adminId: number;
   username: string;
   password: string;
}
```

```
export class CustomerCreden {
   customerId?: number;
   username: string;
   password: string;
}
```

```
export class Customer {
   CusId?: number;
   name: string;
   age: number;
   gender: string;
   email: string;
   address: string;
   mobile: string;
   products: [
      {
         pid?: number;
         medicineName: string;
         seller: string;
         price: number;
         description: string;
         quantity: number
      }
```

```
  ]
}
```

```
export class ProductList {
  productListId: number;
  medicineName: string;
  seller: string;
  qtyDesc?: string;
  price: number;
  description: string;
  imgURL: string;
  active: number;
  creationDateTime: Date;
}
```

```
import { CustomerCreden } from './../Model/Credential/Customer/customer-creden';
// import { IProductList } from './../interfaces/product-list/product-list';
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';
import { ProductList } from '../Model/product-list/product-list';
import { Cart } from '../Model/Cart/cart';
import { Customer } from '../Model/Customer/customer';
import { AdminCreden } from '../Model/Credential/Admin/admin-creden';


@Injectable({
 providedIn: 'root'
})
export class MedicareService {

 private _productListUrl = "http://localhost:8080/api/medicare/product/list";
 private _orderListUrl = "http://localhost:8080/api/medicare/order/list";
 private _cartUrl = "http://localhost:8080/api/medicare/cart";
 private _customerUrl="http://localhost:8080/api/medicare/customer";
 private _adminCredentialUrl = "http://localhost:8080/api/medicare/admin/credential";
 private _customerCredentialUrl = "http://localhost:8080/api/medicare/customer/credential";


 constructor(private http: HttpClient) { }

 // -----------------Customer & Product (Place Order)--------------------

 // 1. Get Method
 getAllOrderList(): Observable<Customer[]> {
  return this.http.get<Customer[]>(this._orderListUrl);
 }


 // 2. Post Method
 placeOrder(customer: Customer): Observable<Customer> {
  return this.http.post<Customer>(this._customerUrl, customer);
 }

 // 3. Delete Method
 deleteCustomerProductDetailsById(id: number): Observable<Customer> {
  return this.http.delete<Customer>(`${this._customerUrl}/${id}`)
```

```
  }

  // ----------------------------Product List----------------------------------

  // 1. GET Method
  getAllProductList(): Observable<ProductList[]> {
    return this.http.get<ProductList[]>(this._productListUrl);
  }

  getProductListById(id: number): Observable<ProductList> {
    return this.http.get<ProductList>(`${this._productListUrl}/${id}`);
  }

  // 2. Post Method
  saveProductList(productlist: ProductList): Observable<ProductList> {
    return this.http.post<ProductList>(this._productListUrl, productlist);
  }

  // 3. Put Method
  updateProductList(productlist: ProductList, id: number): Observable<ProductList> {
    return this.http.put<ProductList>(`${this._productListUrl}/${id}`,productlist);
  }

  // 4. Delete Method
  deleteProductList(id: number): Observable<ProductList> {
    return this.http.delete<ProductList>(`${this._productListUrl}/${id}`);
  }

  // ---------------------------------Cart-----------------------------------------

  // 1. Get Method
  getAllCarts(): Observable<Cart[]> {
    return this.http.get<Cart[]>(this._cartUrl);
  }

  getCartById(id: number): Observable<Cart> {
    return this.http.get<Cart>(`${this._cartUrl}/${id}`);
  }

  // 2. Post Method
  saveCart(cart: Cart): Observable<ProductList> {
    return this.http.post<ProductList>(this._cartUrl, cart);
  }

  // 3. Delete Method
  deleteCartById(id: number): Observable<Cart> {
    return this.http.delete<Cart>(`${this._cartUrl}/${id}`);
  }

// ----------------------Admin Credential-----------------------

// 1. Get Method
getAllAdmin(): Observable<AdminCreden[]> {
  return this.http.get<AdminCreden[]>(this._adminCredentialUrl);
}
```

```
getAdminById(id: number): Observable<AdminCreden> {
  return this.http.get<AdminCreden>(`${this._adminCredentialUrl}/${id}`);
}

// 2. Put method
updateAdminById(admin: AdminCreden, id: number): Observable<AdminCreden> {
  return this.http.put<AdminCreden>(`${this._adminCredentialUrl}/${id}`,admin);
}


//----------------------Customer Credential----------------------
// 1. Get Method
getAllCustomerCreden(): Observable<CustomerCreden[]> {
  return this.http.get<CustomerCreden[]>(this._customerCredentialUrl);
}

// 2. Post Method
saveCustomerCreden(customercreden: CustomerCreden): Observable<CustomerCreden> {
  return this.http.post<CustomerCreden>(this._customerCredentialUrl, customercreden);
}


}
```

```
import { EditProductComponent } from './components/ManageProduct/edit-product/edit-
product.component';
import { ProductDetailsComponent } from './components/ManageProduct/product-
details/product-details.component';
import { OrderListComponent } from './components/ManageProduct/order-list/order-
list.component';
import { ChangePasswordComponent } from './components/ManageProduct/change-
password/change-password.component';
import { AddProductComponent } from './components/ManageProduct/add-product/add-
product.component';
import { ProductListComponent } from './components/ManageProduct/product-list/product-
list.component';
import { HomeProductComponent } from './components/ManageProduct/home-product/home-
product.component';
import { SignupComponent } from './components/credential/signup/signup.component';
import { LoginComponent } from './components/credential/login/login.component';
import { AdminComponent } from './components/credential/admin/admin.component';
import { CartComponent } from './components/cart/cart.component';
import { DescCardComponent } from './components/desc-card/desc-card.component';
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { AboutComponent } from './components/about/about.component';
import { ContactComponent } from './components/contact/contact.component';
import { HomeComponent } from './components/home/home.component';
import { ProductComponent } from './components/product/product.component';

const routes: Routes = [
  {
    path: 'product-details/:id',
    component: ProductDetailsComponent
  },
```

```
{
  path: 'manage-product',
  component: HomeProductComponent,
  children: [
    {
      path: 'edit-product/:id',
      component: EditProductComponent
    },
    {
      path: 'order-list',
      component: OrderListComponent
    },
    {
      path: 'change-password',
      component: ChangePasswordComponent
    },
    {
      path: 'product-list',
      component: ProductListComponent,
    },
    {
      path: 'add-product',
      component: AddProductComponent
    },
    {
      path: '',
      component: ProductListComponent
    },
    {
      path: '**',
      component: ProductListComponent
    }
  ]
},
{
  path: 'signup',
  component: SignupComponent
},
{
  path: 'login',
  component: LoginComponent
},
{
  path: 'admin',
  component: AdminComponent
},
{
  path: 'cart',
  component: CartComponent
},
{
  path: 'desc-card',
  component: DescCardComponent
},
{
```

```
  path: 'product',
  component: ProductComponent
 },
 {
  path: 'about',
  component: AboutComponent
 },
 {
  path: 'contact',
  component: ContactComponent
 },
 {
  path: 'home',
  component: HomeComponent
 },
 {
  path: '',
  component: HomeComponent
 },
 {
  path: '**',
  component: HomeComponent
 }
];

@NgModule({
 imports: [RouterModule.forRoot(routes)],
 exports: [RouterModule]
})
export class AppRoutingModule { }
```

App.component.html:

```
<section>
 <app-header></app-header>
 <router-outlet></router-outlet>
</section>
<section>
 <app-footer></app-footer>
</section>
```