SimpliLearn Capstone Project: FoodBox
Food Ordering Application
Submitted by: KAVIN K R

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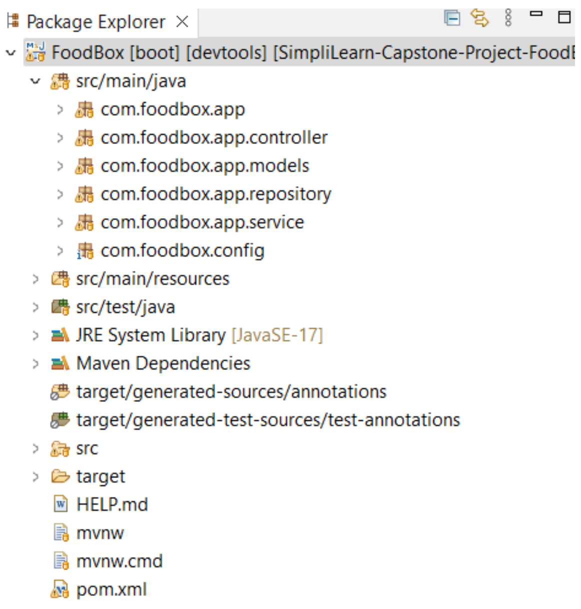
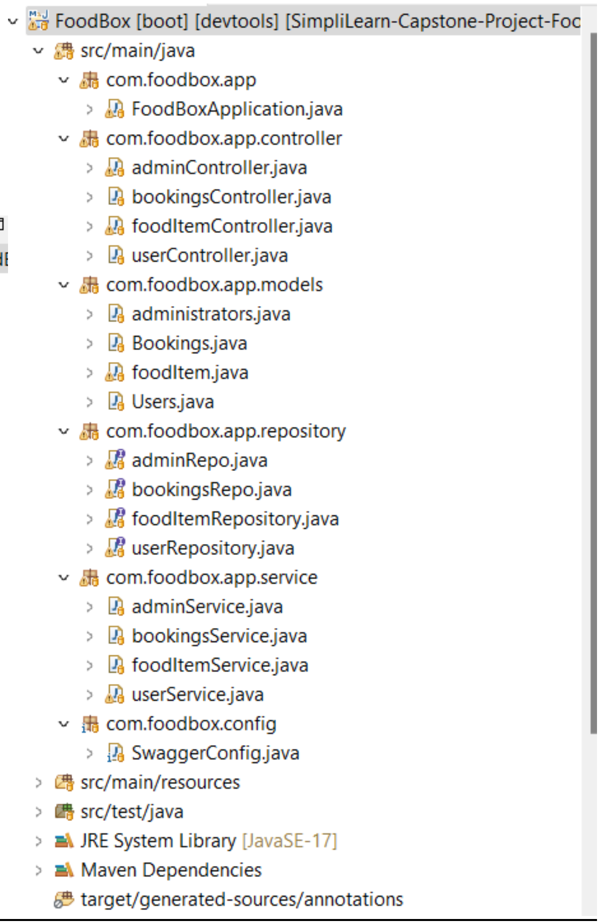
GitHub Project Repository URL : GitHub Link

Backend Rest API:
Project structure:



```
Package Explorer ×
v FoodBox [boot] [devtools] [SimpliLearn-Capstone-Project-FoodB
  v src/main/java
    > com.foodbox.app
    > com.foodbox.app.controller
    > com.foodbox.app.models
    > com.foodbox.app.repository
    > com.foodbox.app.service
    > com.foodbox.config
  > src/main/resources
  > src/test/java
  > JRE System Library [JavaSE-17]
  > Maven Dependencies
    target/generated-sources/annotations
    target/generated-test-sources/test-annotations
  > src
  > target
    HELP.md
    mvnw
    mvnw.cmd
    pom.xml
```



```
v FoodBox [boot] [devtools] [SimpliLearn-Capstone-Project-Foc
  v src/main/java
    v com.foodbox.app
      > FoodBoxApplication.java
    v com.foodbox.app.controller
      > adminController.java
      > bookingsController.java
      > foodItemController.java
      > userController.java
    v com.foodbox.app.models
      > administrators.java
      > Bookings.java
      > foodItem.java
      > Users.java
    v com.foodbox.app.repository
      > adminRepo.java
      > bookingsRepo.java
      > foodItemRepository.java
      > userRepository.java
    v com.foodbox.app.service
      > adminService.java
      > bookingsService.java
      > foodItemService.java
      > userService.java
    v com.foodbox.config
      > SwaggerConfig.java
  > src/main/resources
  > src/test/java
  > JRE System Library [JavaSE-17]
  > Maven Dependencies
    target/generated-sources/annotations
```

FoodBoxApplication.java

```
package com.foodbox.app;


import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.Bean;



@SpringBootApplication

public class FoodBoxApplication {

	public static void main(String[] args) {
		SpringApplication.run(FoodBoxApplication.class, args);
		System.out.println("App works");
	}
}
```

adminController.java

```
package com.foodbox.app.controller;

import java.util.HashMap;
import java.util.Map;

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.RequestParam;
import org.springframework.web.bind.annotation.RestController;

import com.foodbox.app.models.administrators;
import com.foodbox.app.service.adminService;

@CrossOrigin(allowedHeaders = "*")
@RestController
@RequestMapping("/api/admin")
public class adminController {
	@Autowired
	adminService service;
	@PostMapping("/addAdminUser")
	public Map<String,String> addAdmin(@RequestBody administrators usr){
		Map<String,String> result = new HashMap<>();
		result.put("status", "0");
		try{
			service.addAdminUser(usr);
			result.replace("status", "1");
		}catch(Exception e) {
			System.out.println(e);

		}
		return result;
	}
	@GetMapping("/findadmin")
	public administrators findadminuser(@RequestParam("q")String searchterm) {

		String pattern = "[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\\.[a-zA-Z]{2,}";
		if(searchterm.matches(pattern)) {

			return service.findByEmail(searchterm);
		}else if(searchterm!=null) {

			return service.findByUsername(searchterm);
		}else {
			return null;
```

```
                }

        }
        @PutMapping("/changepassword")
        public Map<String,String> changePassword(@RequestBody administrators usr){
                Map<String,String> result = new HashMap<>();
                result.put("status", "0");
                try{
                        service.changePassword(usr);
                        result.replace("status", "1");
                }catch(Exception e) {
                        System.out.println(e);

                }
                return result;
        }

        @PostMapping ("/authenticate")
        public Map<String,String> authentication(@RequestBody administrators usr){
                Map<String,String> result = new HashMap<>();
                String pattern = "[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\\.[a-zA-Z]{2,}";
                System.out.println(usr);
                if(usr.getEmail()!= null && (usr.getEmail()).matches(pattern) ) {
                        return service.AuthenticateByEmail(usr);
                }else if(usr.getUserName()!=null ) {
                        return service.AuthenticateByUsername(usr);
                }

                result.put("admin", "error");
                result.put("authentication", "error");
                return result;
        }

        @DeleteMapping("/remove/{id}")
        public Map<String,String> removeAdmin(@PathVariable("id")int id){
                Map<String,String> result = new HashMap<>();
                result.put("status", "0");
                try {

                        service.removeAdminUser(id);
                        result.replace("status", "1");
                }catch(Exception e) {
                        System.out.println();
                }
                return result;
        }

}
```

bookingsController.java

```
package com.foodbox.app.controller;

import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

import com.foodbox.app.models.Bookings;
import com.foodbox.app.service.bookingsService;

@CrossOrigin(allowedHeaders = "*")
@RestController
@RequestMapping("/api/bookings")
public class bookingsController {
	@Autowired
	bookingsService service;

	@GetMapping("/all")
	public List<Bookings> getAllBookings(){
		return service.getAllBookings();
	}

	@PostMapping("/saveBooking")
	public Map<String, String> saveBooking(@RequestBody Bookings bk){
		Map<String, String> status = new HashMap <>();
		status.put("status", null);
		try {
		Bookings bkng = 		service.saveBooking(bk);
			status.replace("status", Integer.toString(bkng.getBookingId()));
		}catch(Exception e) {
			System.out.println(e);
			status.replace("status", "error");
		}
		return status;
	}
}
```

foodItemController.java

```
package com.foodbox.app.controller;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

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.PatchMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;

import com.foodbox.app.models.Users;
import com.foodbox.app.models.foodItem;
import com.foodbox.app.service.foodItemService;

@CrossOrigin(allowedHeaders = "*")
@RestController
@RequestMapping("/api/food")
public class foodItemController {
	@Autowired
	foodItemService fs;

	@GetMapping("/all")
	public List<foodItem> findAllFoods(){

		return fs.findAll();
	}
	@PostMapping("/addfood")
	public Map<String, Integer> addFoodItem(@RequestBody foodItem f){
		Map<String,Integer> status=new HashMap<>();
		try {
			fs.addFoodItem(f);
			status.put("status", 1);
		}catch(Exception e) {
			System.out.println(e);
			status.put("status", 0);
		}

		return status;
	}

	@DeleteMapping("/delete/{id}")
	public Map<String, String> deleteFood(@PathVariable(name = "id", required =
false)Integer id ){
		Map<String, String> status = new HashMap<>();
			if(id==null) {
				status.put("status","Food ID not detected");
			}else {
				fs.deleteFoodItemById(id);
				status.put("status", "1");
			}
		return status;
	}

	@GetMapping("/find/{id}")
	public List<foodItem> findfooditem(@PathVariable(name="id", required=false)Integer id){
		List<foodItem> foodList = new ArrayList<>();
		foodList.add(fs.findByID(id));

		return foodList;

	}

	@GetMapping("/find")
	public List<foodItem> findfooditem(@RequestParam(name="name")String name){
		List<foodItem> foodList = new ArrayList<>();
		foodList.add(fs.findByName(name));

		return foodList;
	}

	@PatchMapping("/update/{id}")
	public Map<String, String> updateUser(@PathVariable(name="id",required=false) int id,
@RequestBody foodItem item){
		Map<String, String> status = new HashMap<>();
		status.put("status", fs.updateFoodDetails(item));
	return status;
}

	@PostMapping("/statuschange")
	public Map<String, String> changestatus(@RequestBody foodItem item) {

		Map<String, String> status = new HashMap<>();
		status.put("status", "1");
		fs.changestatus(item);
		return status;
	}

}
```

userController.java

```
package com.foodbox.app.controller;

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.PatchMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

import com.foodbox.app.models.Users;
import com.foodbox.app.service.userService;

@CrossOrigin(allowedHeaders = "*")
@RestController
@RequestMapping("/api/user")
public class userController {
	@Autowired
	userService usrService;

	@GetMapping("/")
	public String landingGreeting(){
		return "You have landed on the Users page!!!<br><h1>Have a nice day!!</h1>";
	}

	@GetMapping("/all")
	public List<Users> getAllUsers(){
		return usrService.findAllUsers();
	}

	@GetMapping("/finduser")
	public Users getUserByName(@RequestParam(name="name") String name){
		Users usr;
		String pattern = "[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\\.[a-zA-Z]{2,}";
		if(name.matches(pattern)) {
			usr = usrService.findByEmail(name);
		}else {
		usr = usrService.findUserByUserName(name);
		}
		return usr;
	}

	@PatchMapping("/updateuser/{id}")
	public Map<String, String> updateUser(@PathVariable("id") int id, @RequestBody Users
usr){
		Map<String, String> status = new HashMap<>();

		try {
			usrService.updateUser(usr);
			status.put("status", "1");
			Users updateduser = new Users();
			updateduser=usrService.findUserById(id);
			status.put("uid", Integer.toString(updateduser.getUserId()));
			status.put("firstname", updateduser.getFirstName());
			status.put("middlename", updateduser.getMiddleName());
			status.put("lastname", updateduser.getLastName());
			status.put("username", updateduser.getUserName());
			status.put("email", updateduser.getEmail());
			status.put("password", updateduser.getPassword());
			status.put("country", updateduser.getCountry());
			}
			catch(Exception e) {
				System.out.println(e);
				status.put("status", "0");
			}
			return status;
	}

	@PostMapping("/adduser")
	public Map<String, Integer> createUser(@RequestBody Users usr){
		Map<String, Integer> status = new HashMap<>();
		try {
		usrService.addUser(usr);
		status.put("status", 1);
		}
		catch(Exception e) {
```

```
                        status.put("status", 0);
                }
                return status;
        }

        @DeleteMapping("/remove/{id}")
        public Map<String, Integer> deleteUser(@PathVariable int id){
                Map<String, Integer> status = new HashMap<>();
                try {
                usrService.deleteUser(usrService.findUserById(id));
                status.put("status", 1);
                }
                catch(Exception e) {
                        System.out.println(e);
                        status.put("status", 0);
                }
                return status;
        }
}
```

Administrators.java

```
package com.foodbox.app.models;

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

@Entity
public class administrators {
        @Id
        @GeneratedValue(strategy = GenerationType.IDENTITY)
        private int adminId;
        private String userName;
        private String password;
        private String email;
        private String role;

        public administrators() {
                // TODO Auto-generated constructor stub
        }


        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;
		}

		public String getEmail() {
			return email;
		}

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

		public String getRole() {
			return role;
		}

		public void setRole(String role) {
			this.role = role;
		}

		@Override
		public String toString() {
			return "administrators [adminId=" + adminId + ", userName=" + userName + ",
password=" + password + ", email="
					+ email + ", role=" + role + "]";
		}

}
```

Bookings.java

```
package com.foodbox.app.models;

import java.time.LocalDateTime;
import java.util.List;

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

@Entity
public class Bookings {
		@Id
		@GeneratedValue(strategy = GenerationType.IDENTITY)
		private int bookingId;
		private int userId;
		private List<String> bookingDetails;
		private double bookingAmount;
		private LocalDateTime bookingStamp;
```

```
	public Bookings() {
		// TODO Auto-generated constructor stub
	}

	public int getBookingId() {
		return bookingId;
	}

	public void setBookingId(int bookingId) {
		this.bookingId = bookingId;
	}

	public int getUserId() {
		return userId;
	}

	public void setUserId(int userId) {
		this.userId = userId;
	}

	public List<String> getBookingDetails() {
		return bookingDetails;
	}

	public void setBookingDetails(List<String> bookingDetails) {
		this.bookingDetails = bookingDetails;
	}

	public double getBookingAmount() {
		return bookingAmount;
	}

	public void setBookingAmount(double bookingAmount) {
		this.bookingAmount = bookingAmount;
	}

	public LocalDateTime getBookingStamp() {
		return bookingStamp;
	}

	public void setBookingStamp(LocalDateTime bookingStamp) {
		this.bookingStamp = bookingStamp;
	}

	@Override
	public String toString() {
		return "Bookings [bookingId=" + bookingId + ", userId=" + userId + ",
bookingDetails=" + bookingDetails
				+ ", bookingAmount=" + bookingAmount + ", bookingStamp=" +
bookingStamp + "]";
	}

}
```

foodItem.java

```
package com.foodbox.app.models;

import java.util.List;

import org.hibernate.annotations.Type;

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

@Entity
public class foodItem {
	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int foodId;
	private String foodName;
	private String foodDesc;
	private int rate;
	private int rating;
	private int cookingTime;
	private List<String> tag;
	private String cuisine;
	private String imgUrl;
	private boolean status;

	public boolean isStatus() {
		return status;
	}

	public void setStatus(boolean status) {
		this.status = status;
	}

	public foodItem() {
		// TODO Auto-generated constructor stub
	}

	public int getFoodId() {
		return foodId;
	}

	public void setFoodId(int foodId) {
		this.foodId = foodId;
	}

	public String getFoodName() {
		return foodName;
	}

	public void setFoodName(String foodName) {
		this.foodName = foodName;
	}
	public String getFoodDesc() {
		return foodDesc;
	}

	public void setFoodDesc(String foodDesc) {
		this.foodDesc = foodDesc;
	}

	public int getRate() {
		return rate;
	}

	public void setRate(int rate) {
		this.rate = rate;
	}

	public int getRating() {
		return rating;
	}

	public void setRating(int rating) {
		this.rating = rating;
	}

	public int getCookingTime() {
		return cookingTime;
	}

	public void setCookingTime(int cookingTime) {
		this.cookingTime = cookingTime;
	}

	public List<String> getTag() {
		return tag;
	}

	public void setTag(List<String> tag) {
		this.tag = tag;
	}

	public String getCuisine() {
		return cuisine;
	}

	public void setCuisine(String cuisine) {
		this.cuisine = cuisine;
	}

	public String getImgUrl() {
		return imgUrl;
	}

	public void setImgUrl(String imgUrl) {
		this.imgUrl = imgUrl;
	}
	@Override
	public String toString() {
		return "foodItem [foodId=" + foodId + ", foodName=" + foodName + ", 
foodDesc=" + foodDesc + ", rate=" + rate
				+ ", rating=" + rating + ", cookingTime=" + cookingTime + ", tag=" 
+ tag + ", cuisine=" + cuisine
				+ ", imgUrl=" + imgUrl + "]";
	}

}
```

Users.java

```
package com.foodbox.app.models;

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

@Entity
public class Users {
	@Id
	@GeneratedValue(strategy = GenerationType.IDENTITY)
	private int userId;
	private String firstName;
	private String middleName;
	private String lastName;
	private String userName;
	private String email;
	private String password;
	private String country;
	public Users() {
		// TODO Auto-generated constructor stub
	}
	public int getUserId() {
		return userId;
	}
	public void setUserId(int uid) {
		userId = uid;
	}
	public String getFirstName() {
		return firstName;
	}
	public void setFirstName(String firstName) {
		this.firstName = firstName;
	}
	public String getMiddleName() {
		return middleName;
	}
	public void setMiddleName(String middleName) {
		this.middleName = middleName;
	}
	public String getLastName() {
		return lastName;
	}
	public void setLastName(String lastName) {
		this.lastName = lastName;
	}
	public String getUserName() {
		return userName;
	}
	public void setUserName(String userName) {
		this.userName = userName;
	}
	public String getEmail() {
		return email;
	}
	public void setEmail(String email) {
		this.email = email;
	}
	public String getPassword() {
		return password;
	}
	public void setPassword(String password) {
		this.password = password;
	}
	public String getCountry() {
		return country;
	}
	public void setCountry(String country) {
		this.country = country;
	}
	@Override
	public String toString() {
		return "Users [userId=" + userId + ", firstName=" + firstName + ", middleName=" +
middleName + ", lastName="
				+ lastName + ", userName=" + userName + ", email=" + email + ",
password=" + password + ", country="
				+ country + "]";
	}

}
```

adminRepo.java

```
package com.foodbox.app.repository;

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

import com.foodbox.app.models.administrators;

@Repository
public interface adminRepo extends JpaRepository<administrators, Integer> {

	@Query("SELECT u FROM administrators u WHERE u.userName=?1")
	public administrators findByUsername(String username);
	@Query("SELECT u FROM administrators u WHERE u.email=?1")
	public administrators findByEmail(String email);
}
```

bookingsRepo.java

```
package com.foodbox.app.repository;

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

import com.foodbox.app.models.Bookings;
@Repository
public interface bookingsRepo extends JpaRepository<Bookings, Integer> {

}
```

foodItemRepository.java

```
package com.foodbox.app.repository;

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

import com.foodbox.app.models.foodItem;
@Repository
public interface foodItemRepository extends JpaRepository<foodItem, Integer> {

	@Query("SELECT f from foodItem f where f.foodName=?1")
	public foodItem findByName(String name) ;

}
```

userRepository.java

```
package com.foodbox.app.repository;

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

import com.foodbox.app.models.Users;
import java.util.List;
import jakarta.persistence.EntityManager;

@Repository
public interface userRepository extends JpaRepository<Users, Integer>{

	@Query("SELECT u from Users u WHERE u.userName=?1")
	Users findByUserName(String name);
	@Query("SELECT u from Users u WHERE u.email=?1")
	Users findByEmail(String email);

}
```

adminService.java

```
package com.foodbox.app.service;

import java.util.HashMap;
import java.util.Map;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.foodbox.app.models.administrators;
import com.foodbox.app.repository.adminRepo;

@Service
public class adminService {
	@Autowired
	adminRepo repo;

	public void addAdminUser(administrators usr) {
		repo.save(usr);

	}

	public administrators findByUsername(String t) {
		return repo.findByUsername(t);
	}

	public administrators findByEmail(String t) {
		return repo.findByEmail(t);
	}

	public void removeAdminUser(int id) {
		administrators u = repo.findById(id).get();
		if(u!=null) {
			repo.delete(u);
		}

	}

	public Map<String, String> AuthenticateByUsername(administrators usr) {
		Map<String, String> result = new HashMap<>();
		result.put("admin", "0");
		result.put("authentication", "0");
		administrators u = null;
		u = repo.findByUsername(usr.getUserName());
		if (u == null) {
			return result;
		} else if ((u.getUserName()).equals(usr.getUserName())) {
			result.put("admin", "1");
			if ((u.getPassword()).equals(usr.getPassword())) {
				result.put("authentication", "1");
			}

		}
		return result;
	}
	public Map<String, String> AuthenticateByEmail(administrators usr) {
		Map<String, String> result = new HashMap<>();
		result.put("admin", "0");
		result.put("authentication", "0");
		administrators u = null;
		u = repo.findByEmail(usr.getEmail());
		if (u == null) {
			return result;
		} else if ((u.getEmail()).equals(usr.getEmail())) {
			result.put("admin", "1");
			if ((u.getPassword()).equals(usr.getPassword())) {
				result.put("authentication", "1");
			}

		}
		return result;
	}

	public String changePassword(administrators usr) {
		String result;
		administrators u =repo.findByUsername(usr.getUserName());
		u.setPassword(usr.getPassword());
		try {
			repo.save(u);
			result="1";
		}
		catch(Exception e) {
			System.out.println(e);
			result="0";
		}
		return result;
	}
}
```

bookingService.java

```
package com.foodbox.app.service;

import java.util.List;

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

import com.foodbox.app.models.Bookings;
import com.foodbox.app.repository.bookingsRepo;

@Service
public class bookingsService {
	@Autowired
	private bookingsRepo repo;

	public List<Bookings> getAllBookings() {
		return repo.findAll();
	}

	public Bookings saveBooking(Bookings bk) {
		return repo.save(bk);
	}

}
```

foodItemService.java

```
package com.foodbox.app.service;

import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.foodbox.app.models.foodItem;
import com.foodbox.app.repository.foodItemRepository;
@Service
public class foodItemService {
	@Autowired
	foodItemRepository repo;

	public List<foodItem> findAll(){
		return repo.findAll();
	}
	public foodItem findByID(int id) {
		try {
			return repo.findById(id).get();
		}catch(Exception e) {
			System.out.println(e);
			return null;
		}

	}
	public String updateFoodDetails(foodItem item) {
		String status="0";
		foodItem oldItem = repo.findById(item.getFoodId()).get();
		if( item.getCookingTime() == 0) {
			item.setCookingTime(oldItem.getCookingTime());
		}
		if(item.getCuisine()==null) {
			item.setCuisine(oldItem.getCuisine());
		}
		if(item.getFoodDesc()==null) {
			item.setFoodDesc(oldItem.getFoodDesc());
		}
		if(item.getFoodName()==null) {
			item.setFoodName(oldItem.getFoodName());
		}
		if(item.getImgUrl()==null) {
			item.setImgUrl(oldItem.getImgUrl());
		}
		if(item.getRate()==0) {
			item.setRate(oldItem.getRate());
		}
		if(item.getRating()==0) {
			item.setRating(oldItem.getRating());
		}
		if(item.getTag()==null) {
			item.setTag(oldItem.getTag());
		}

		try {
			repo.save(item);
			status="1";
		}
		catch(Exception e) {
				System.out.println(e);
			}

			return status;
		}
		public foodItem findByName(String name) {
			return repo.findByName(name);
		}

		public String addFoodItem(foodItem f) {
			String status;
			try {

				repo.save(f);
				status="1" ;
			}catch(Exception e) {
				status ="0";
			}
			return status;
		}
		public String deleteFoodItem(foodItem f) {
			String status;
			try {
				repo.delete(f);
				status="1";
			}
			catch(Exception e) {
				System.out.println(e);
				status="0";
			}
			return status;
		}

			public String deleteFoodItemById(Integer id) {
				String status;
				try {
					repo.deleteById(id);
					status="1";
				}
				catch(Exception e) {
					System.out.println(e);
					status="0";
				}
				return status;
		}
			public void changestatus(foodItem f) {
				foodItem food= repo.findById(f.getFoodId()).get();
				food.setStatus(f.isStatus());
				repo.save(food);
			}
}
```

userService.java

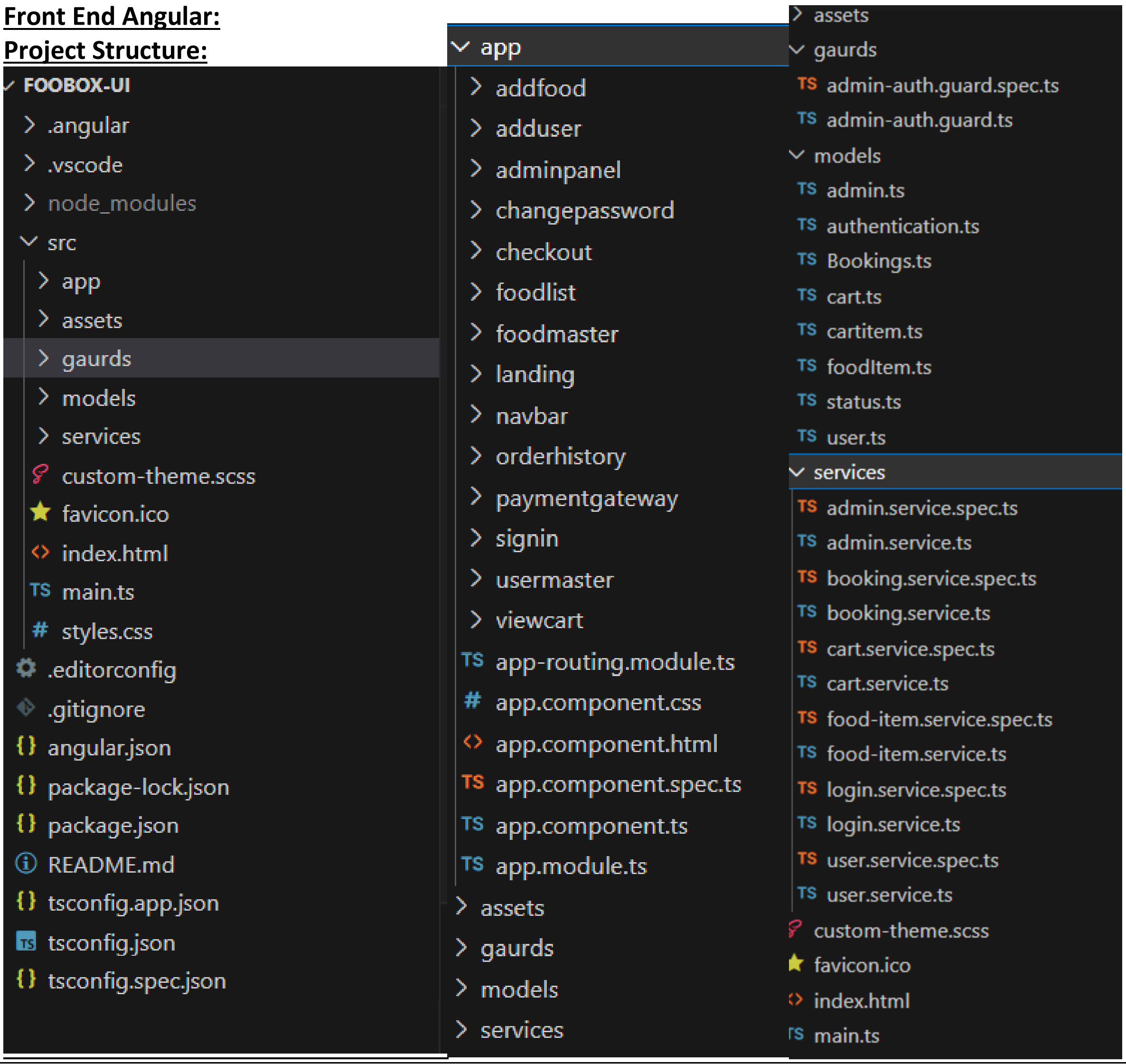
```
package com.foodbox.app.service;

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

import java.util.List;

import com.foodbox.app.models.Users;
import com.foodbox.app.repository.userRepository;
@Service
public class userService {

@Autowired
userRepository repository;
	//find all users
	public List<Users>findAllUsers() {
		return repository.findAll();
	}

	//find all by id
	public Users findUserById(Integer id) {
		return repository.getById(id);
	}

	//find users by username
	public Users findUserByUserName(String name) {
		System.out.println("finding by name " + name);
		return repository.findByUserName(name);
	}

	public Users findByEmail(String email) {
		System.out.println("finding by email" +email);
		return repository.findByEmail(email);
	}

	public void addUser(Users usr) {

		repository.save(usr);

	}

	//update userdetails
	public void updateUser(Users usr) {
		Users oldUserdata = repository.getById(usr.getUserId());
		if(usr.getFirstName()==null) {
			usr.setFirstName(oldUserdata.getFirstName());
		}
		if(usr.getLastName()==null) {
			usr.setLastName(oldUserdata.getLastName());
		}
		if (usr.getMiddleName()==null) {
			usr.setMiddleName(oldUserdata.getMiddleName());
		}
		if(usr.getUserName()==null) {
			usr.setUserName(oldUserdata.getUserName());
		}
		if(usr.getEmail()==null) {
			usr.setEmail(oldUserdata.getEmail());
		}
		if(usr.getPassword()==null) {
			usr.setPassword(oldUserdata.getPassword());
		}
		if(usr.getCountry()==null) {
			usr.setCountry(oldUserdata.getCountry());
		}

		repository.save(usr);

	}

	//delete user by userId
	public void deleteUser(Users usr) {
		repository.deleteById(usr.getUserId());
	}

}
```

SwaggerCofig.java

```
package com.foodbox.config;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;

import io.swagger.v3.oas.annotations.OpenAPIDefinition;
import io.swagger.v3.oas.models.OpenAPI;
import io.swagger.v3.oas.models.info.Info;

@OpenAPIDefinition
@Configuration
public class SwaggerConfig {

	@Bean
	public OpenAPI baseOpenAPI() {
		return new OpenAPI().info(new Info().title("Spring
Doc").version("1.0.0").description("Spring Doc"));
	}
}
```

Front End Angular:

Project Structure:



```
FOOBOX-UI
  > .angular
  > .vscode
  > node_modules
  v src
    > app
    > assets
    > gaurds
    > models
    > services
    custom-theme.scss
    favicon.ico
    index.html
    main.ts
    styles.css
  .editorconfig
  .gitignore
  angular.json
  package-lock.json
  package.json
  README.md
  tsconfig.app.json
  tsconfig.json
  tsconfig.spec.json
```

```
v app
  > addfood
  > adduser
  > adminpanel
  > changepassword
  > checkout
  > foodlist
  > foodmaster
  > landing
  > navbar
  > orderhistory
  > paymentgateway
  > signin
  > usermaster
  > viewcart
  app-routing.module.ts
  app.component.css
  app.component.html
  app.component.spec.ts
  app.component.ts
  app.module.ts
> assets
> gaurds
> models
> services
```

```
> assets
v gaurds
  admin-auth.guard.spec.ts
  admin-auth.guard.ts
v models
  admin.ts
  authentication.ts
  Bookings.ts
  cart.ts
  cartitem.ts
  foodItem.ts
  status.ts
  user.ts
v services
  admin.service.spec.ts
  admin.service.ts
  booking.service.spec.ts
  booking.service.ts
  cart.service.spec.ts
  cart.service.ts
  food-item.service.spec.ts
  food-item.service.ts
  login.service.spec.ts
  login.service.ts
  user.service.spec.ts
  user.service.ts
custom-theme.scss
favicon.ico
index.html
main.ts
```

Addfood.component.html:

```
<div class="container py-5 h-100">
  <button class="btn btn-primary" style="float:right;" routerLink="../">X</button>
  <div class="row d-flex justify-content-center align-items-center h-100">
    <span class="text-center">
      <h3>Add Food</h3>
    </span>
    <div class="col-lg-8 col-xl-6">

      <div class="card rounded-3">

        <div class="card-body p-4 p-md-5">
          <form>
            <!-- 2 column grid layout with text inputs for the first and last names -->

            <div class="col">
              <div class="form-outline">
                <input type="text" id="foodname" class="form-control" name="foodname"
                  [(ngModel)]="item.foodName" />
                <label class="form-label" for="foodname">Food Name</label>
              </div>
            </div>
            <div class="col">
              <div class="form-outline">
                <input type="text" id="fooddesc" class="form-control" name="fooddesc"
                  [(ngModel)]="item.foodDesc" />
                <label class="form-label" for="fooddesc">Food Description</label>
              </div>
            </div>
            <div class="col">
              <div class="form-outline">
                <input type="text" id="rate" class="form-control" name="rate"
[(ngModel)]="item.rate" />
                <label class="form-label" for="rate">Rate</label>
              </div>
            </div>
            <div class="row">
              <div class="col">
                <div class="form-outline">
                  <input type="number" id="rating" max="5" class="form-control"
name="rating"
                    [(ngModel)]="item.rating" />
                  <label class="form-label" for="rating">Rating</label>
                </div>
              </div>
              <div class="col">
                <div class="form-outline">
                  <input type="number" id="cookingtime" class="form-control"
name="cookingtime"
                    [(ngModel)]="item.cookingTime" />
                  <label class="form-label" for="cookingtime">Cooking Time</label>
                </div>
              </div>
            </div>
            <div class="row">
              <div class="col">
                <div class="form-outline">
                  <input type="text" id="tag" class="form-control" name="tag"
[(ngModel)]="tagtemp" />
                  <label class="form-label" for="tag">Tag name</label>
                </div>
              </div>
              <div class="col">
                <button class="btn btn-primary" (click)="addtag()">Add tag</button>
              </div>
            </div>
            <span>Tags:</span><br>
            <li *ngFor="let tag of item.tag">{{tag}}  <button class="btn btn-sm btn-primary"
(click)="removetag(tag)">X</button></li>

            <div class="col">
              <div class="form-outline">
                <input type="text" id="cuisine" class="form-control" name="cuisine"
[(ngModel)]="item.cuisine" />
                <label class="form-label" for="cuisine">Cuisine</label>
              </div>
            </div>
```

```
                    <div class="col">
                        <div class="form-outline">
                            <input type="text" id="imgurl" class="form-control" name="imgurl"
[(ngModel)]="item.imgUrl" />
                            <label class="form-label" for="imgurl">Image Url</label>
                        </div>
                    </div>
                    <br>
                    <button class="btn btn-primary btn-block mb-4" (click)="addfood()">Add
Food</button>

                </form>
            </div>
        </div>
    </div>
  </div>
</div>
```

Addfood.component.ts

```
import { Component } from '@angular/core';
import { Router } from '@angular/router';
import { foodItem } from 'src/models/foodItem';
import { FoodItemService } from 'src/services/food-item.service';

@Component({
  selector: 'app-addfood',
  templateUrl: './addfood.component.html',
  styleUrls: ['./addfood.component.css']
})
export class AddfoodComponent {
  item:foodItem = new foodItem();
  tagtemp:string="";
  constructor(private fooditemservice:FoodItemService, private router:Router){
    this.item.tag=[];
  }
  addtag(){
    this.item.tag.push(this.tagtemp);
    this.tagtemp="";
  }
  removetag(tag:string){
   let index= this.item.tag.findIndex(item=>item==tag);
   this.item.tag.splice(index,1);
  }

  addfood(){
    this.fooditemservice.addFoodItem(this.item).subscribe(data=>{
      if(data.status=="1"){
        console.log(data);
        alert("Food successfully added!!");
      }
    });
    this.router.navigateByUrl("adminpanel/foodmaster");
  }
}
```

Adduser.component.html

```
<div class="container py-5 h-100">
  <button class="btn btn-primary" style="float:right;" routerLink="../">X</button>
  <div class="row d-flex justify-content-center align-items-center h-100">
    <span class="text-center">
      <h3>Add User</h3>
    </span>
    <div class="col-lg-8 col-xl-6">

      <div class="card rounded-3">

        <div class="card-body p-4 p-md-5">
          <form #userform="ngForm">
            <!-- 2 column grid layout with text inputs for the first and last names -->

            <div class="col">
              <div class="form-outline">
                <input type="text" id="firstname" required class="form-control"
name="firstname"
                  [(ngModel)]="usr.firstName" />
                <label class="form-label" for="foodname">First Name</label>
              </div>
            </div>

            <div class="col">
              <div class="form-outline">
                <input type="text" id="middleName" class="form-control"
name="MiddleName"
                  [(ngModel)]="usr.middleName" />
                <label class="form-label" for="middlename">Middle Name</label>
              </div>
            </div>
            <div class="col">
              <div class="form-outline">
                <input type="text" id="lastName" required class="form-control"
name="lastName"
                  [(ngModel)]="usr.lastName" />
                <label class="form-label" for="lastName">Last Name</label>
              </div>
            </div>
            <div class="row">
              <div class="col">
                <div class="form-outline">
                  <input type="text" id="username" required class="form-control"
name="username"
                    [(ngModel)]="usr.userName" />
                  <label class="form-label" for="username">Username</label>
                </div>
              </div>
              <div class="col">
                <div class="form-outline">
                  <input type="email" id="email" required class="form-control" name="email"
                    [(ngModel)]="usr.email" />
                  <label class="form-label" for="email">E-mail</label>
                </div>
```

```
                    </div>
                  </div>
                  <div class="col">
                    <div class="form-outline">
                      <select id="form3Example1q3" required class="form-select" name="country"
                        [(ngModel)]="usr.country">
                        <option *ngFor="let country of country_list" value="{{country}}">{{country}}
                        </option>
                      </select>

                    </div>
                    <label class="form-label" for="form3Example1q">Country</label>
                  </div>

                  <div class="row">
                    <div class="col">
                      <div class="form-outline">
                        <input type="password" id="pass" required class="form-control"
                          [ngStyle]="{'border-color': usr.password==temppass? '' : '#ff8282'}"
name="pass"
                          [(ngModel)]="usr.password" />
                        <label class="form-label" for="pass">Enter Password</label>
                      </div>
                    </div>
                    <div class="col">
                      <div class="form-outline">
                        <input type="password" id="confirmpass" required class="form-control"
                          [ngStyle]="{'border-color': usr.password==temppass? '' : '#ff8282'}"
name="pass"
                          name="confirmpass" [(ngModel)]="temppass" />
                        <label class="form-label" for="confirmpass">Confirm Password</label>
                      </div>
                    </div>
                    <br>

                  </div>
                  <button class="btn btn-primary btn-block mb-4" [disabled]="userform.invalid"
                    (click)="adduser()">Add User</button>
                </form>
              </div>
            </div>
          </div>
        </div>
</div>
```

Adduser.component.ts

```
import { Component } from '@angular/core';
import { Router } from '@angular/router';
import { user } from 'src/models/user';
import { UserService } from 'src/services/user.service';

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

```
export class AdduserComponent {
  usr:user=new user();
   country_list:string[] = ["Afghanistan","Albania","Algeria","Andorra","Angola","Anguilla","Antigua
&amp;
Barbuda","Argentina","Armenia","Aruba","Australia","Austria","Azerbaijan","Bahamas","Bahrain",
"Bangladesh","Barbados","Belarus","Belgium","Belize","Benin","Bermuda","Bhutan","Bolivia","Bo
snia &amp; Herzegovina","Botswana","Brazil","British Virgin Islands","Brunei","Bulgaria","Burkina
Faso","Burundi","Cambodia","Cameroon","Cape Verde","Cayman
Islands","Chad","Chile","China","Colombia","Congo","Cook Islands","Costa Rica","Cote D
Ivoire","Croatia","Cruise Ship","Cuba","Cyprus","Czech
Republic","Denmark","Djibouti","Dominica","Dominican Republic","Ecuador","Egypt","El
Salvador","Equatorial Guinea","Estonia","Ethiopia","Falkland Islands","Faroe
Islands","Fiji","Finland","France","French Polynesia","French West
Indies","Gabon","Gambia","Georgia","Germany","Ghana","Gibraltar","Greece","Greenland","Gre
nada","Guam","Guatemala","Guernsey","Guinea","Guinea
Bissau","Guyana","Haiti","Honduras","Hong
Kong","Hungary","Iceland","India","Indonesia","Iran","Iraq","Ireland","Isle of
Man","Israel","Italy","Jamaica","Japan","Jersey","Jordan","Kazakhstan","Kenya","Kuwait","Kyrgyz
Republic","Laos","Latvia","Lebanon","Lesotho","Liberia","Libya","Liechtenstein","Lithuania","Luxe
mbourg","Macau","Macedonia","Madagascar","Malawi","Malaysia","Maldives","Mali","Malta","
Mauritania","Mauritius","Mexico","Moldova","Monaco","Mongolia","Montenegro","Montserrat",
"Morocco","Mozambique","Namibia","Nepal","Netherlands","Netherlands Antilles","New
Caledonia","New
Zealand","Nicaragua","Niger","Nigeria","Norway","Oman","Pakistan","Palestine","Panama","Papu
a New Guinea","Paraguay","Peru","Philippines","Poland","Portugal","Puerto
Rico","Qatar","Reunion","Romania","Russia","Rwanda","Saint Pierre &amp;
Miquelon","Samoa","San Marino","Satellite","Saudi
Arabia","Senegal","Serbia","Seychelles","Sierra Leone","Singapore","Slovakia","Slovenia","South
Africa","South Korea","Spain","Sri Lanka","St Kitts &amp; Nevis","St Lucia","St Vincent","St.
Lucia","Sudan","Suriname","Swaziland","Sweden","Switzerland","Syria","Taiwan","Tajikistan","Ta
nzania","Thailand","Timor L'Este","Togo","Tonga","Trinidad &amp;
Tobago","Tunisia","Turkey","Turkmenistan","Turks &amp; Caicos","Uganda","Ukraine","United
Arab Emirates","United Kingdom","Uruguay","Uzbekistan","Venezuela","Vietnam","Virgin Islands
(US)","Yemen","Zambia","Zimbabwe"];
  temppass:string="";
  constructor(private usrservice:UserService, private router:Router){}
  adduser(){
    this.usrservice.adduser(this.usr).subscribe(data=>{});
    alert("User added successfully");
    this.router.navigateByUrl("adminpanel/usermaster")
  }
}
```

Adminpanel.component.html

```
<div class="container">
<app-navbar></app-navbar>
<h4 class="text-center">Admin Panel</h4>
<ul style="margin-top: 1rem;" class="list-group list-group-horizontal justify-content-center">
    <li class="list-group-item"><button class="btn btn-primary" routerLink="foodmaster">Food
Items Master</button></li>
    <li class="list-group-item"><button class="btn btn-primary" routerLink="usermaster">User
Master</button></li>
    <li class="list-group-item"><button class="btn btn-primary" routerLink="orderhistory">Order
History</button></li>
    <li class="list-group-item"><button class="btn btn-primary"
routerLink="changepassword">Change Password</button></li>
```

```
</ul>
<hr>
<router-outlet></router-outlet>
</div>
```

Adminpanel.component.ts

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

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

}
```

Changepassword.component.html

```
<div class="container">
<form action="">
   <div class="col"><input type="password" id="oldpass" name="oldpass" class="form-control"
[(ngModel)]="oldpass"></div>
   <label for="oldpass">Enter your old password</label>

   <div class="col"><input type="password" id="newpass" name="newpass" class="form-control"
[(ngModel)]="newpass"></div>
   <label for="newpass">Enter your New password</label>

   <div class="col"><input type="password" id="renewpass" name="renewpass" class="form-
control" [(ngModel)]="renewpass"></div>
   <label for="renewpass">Re-Enter your New password</label>
</form>
<button class="btn btn-primary" (click)="changepassword()">Submit</button>
</div>
```

Changepassword.component.ts

```
import { Component } from '@angular/core';
import { Router } from '@angular/router';
import { admin } from 'src/models/admin';
import { AdminService } from 'src/services/admin.service';
import { LoginService } from 'src/services/login.service';

@Component({
  selector: 'app-changepassword',
  templateUrl: './changepassword.component.html',
  styleUrls: ['./changepassword.component.css']
})
export class ChangepasswordComponent {
oldpass:string;
newpass:string;
renewpass:string;
constructor(
  private loginservice:LoginService,
  private adminservice:AdminService,
  private router:Router
  ){}
changepassword(){
  let adminusr:admin = this.loginservice.getcurrentadminobject();
  if(adminusr.password==this.oldpass){
    if(this.newpass==this.renewpass){
      adminusr.password=this.newpass;

this.adminservice.changepassword(adminusr).subscribe(data=>{if(data.status=="1"){alert("Passw
ord changed successfully!")}});
      this.router.navigateByUrl("adminpanel");
    }else{
      alert("Passwords does not match!!");
      this.oldpass="";
      this.newpass="";
      this.renewpass="";
    }
  }else{
    alert("Bad credentials!")
      this.oldpass="";
      this.newpass="";
      this.renewpass="";
  }
}
}
```

Checkout.component.html

```
<div class="text-center">
   <a><b>Confirm Your Purchase:</b></a>
</div>
<div class="card">
   <table class="table">
      <thead class="table-dark">
         <tr>
            <td>Food Name</td>
            <td>Quantity</td>
            <td>Price</td>
         </tr>
      </thead>
      <tbody>
         <tr *ngFor="let item of cart.cartitems">
            <td>{{item.food.foodName}}</td>
            <td>{{item.quantity}} Nos.</td>
            <td>{{item.cartitemprice | currency:"INR"}}</td>
         </tr>
         <tr>
            <td colspan="2"><b>Total Price:</b></td>
            <td><b>{{cart.cartprice | currency:"INR"}}</b></td>
         </tr>
      </tbody>
   </table>
   <button class="btn btn-success btn-sm" (click)="paymentgateway()">Proceed to
payment</button>
</div>
```

Checkout.component.ts

```
import { Component } from '@angular/core';
import { cart } from 'src/models/cart';
import { CartService } from 'src/services/cart.service';
```

```
@Component({
  selector: 'app-checkout',
  templateUrl: './checkout.component.html',
  styleUrls: ['./checkout.component.css']
})
export class CheckoutComponent {
  cart:cart;
  checkoutstatus:{
    checkout:boolean,
    paymentgateway:boolean
  }
  constructor(private cartservice:CartService){}
  ngOnInit(){
    console.log("Checkout component initialised")
    this.cart=this.cartservice.getcart();
   this.checkoutstatus=this.cartservice.getcheckoutstatus();
  }
  paymentgateway(){

    this.checkoutstatus.paymentgateway=true;

  }
}
```

Foodlist.component.html

```
<div class="input-group ps-5 justify-content-center" style="padding:1rem;">
    <div id="navbar-search-autocomplete" class="form-outline">
      <input type="search" placeholder="Search a food" id="form1" class="form-control"
[(ngModel)]="searchterm"/>
    </div>
    <button type="button" class="btn btn-primary" (click)="searchfood()">
       <i class="bi bi-search"></i>
    </button>
  </div>
  <h3 *ngIf="foodItems.length==0" class="text-center">No Results Found !</h3>

<div class="card-deck">
    <div class="row">
    <div class="card" style="width:18rem; margin: 0 0.2rem;" *ngFor="let item of foodItems">

      <img class="card-img-top" style="height:10rem;object-fit: cover;"
src="assets/pictures/food{{item.imgUrl}}" alt="food image">
      <div class="card-body">
        <h5 class="card-title">{{item.foodName}}</h5>
        <p class="card-text" style="display: inline;"><small class="text-
muted">{{item.cuisine}}</small></p><span style="float:right;text-align: end;"><b>{{item.rate |
currency: "INR"}}</b></span>
        <ul style="list-style-type: none;">
            <li style="float: left;" *ngFor="let tag of item.tag"><small style="background-color:
lightgray;">{{tag}}</small> <small>|</small></li>
        </ul>
        <div class="clearfix"></div>
        <p class="card-text">{{item.foodDesc}}</p>
        <p class="card-text"><small class="text-muted">Rating: {{item.rating}} | <i class="bi bi-
hourglass-split"></i> {{item.cookingTime}} mins</small></p>
```

```
     </div>
    <div class="mb-2 "> <button class="btn btn-primary btn-sm" (click)="addtocart(item)"
style="display:inline-block;">Add to Cart</button></div>
   </div>
</div>
  </div>
```

Foodlist.component.ts

```
import { Component } from '@angular/core';
import { cartitem } from 'src/models/cartitem';
import { foodItem } from 'src/models/foodItem';
import { CartService } from 'src/services/cart.service';
import { FoodItemService } from 'src/services/food-item.service';

@Component({
  selector: 'app-foodlist',
  templateUrl: './foodlist.component.html',
  styleUrls: ['./foodlist.component.css']
})
export class FoodlistComponent {
foodItems:foodItem[];
searchterm:string;
constructor(
  private fooditemservice:FoodItemService,
  private cartservice:CartService){

}
ngOnInit(){
  this.fooditemservice.getAllFoods().subscribe(data=>{this.foodItems=data;});

}

addtocart(item:foodItem){
   let crtitem= new cartitem();
   crtitem.food=item;
   this.cartservice.addtocart(crtitem);
}
searchfood(){
  this.foodItems=this.foodItems.filter(x=>{
   if( x.foodName.includes(this.searchterm)){
    return true;
   }else{
    return false;
   }
  });
  console.log("Resulting array-"+JSON.stringify(this.foodItems));
}
}
```

Foodmaster.component.html

```
<button class="btn btn-primary" routerLink="addfood">Add Food</button>
<router-outlet></router-outlet>
<table class="table table-bordered table-striped">
    <thead class="table-dark">
        <tr>
            <th>Food ID</th>
            <th>Food Name</th>
            <th>Food Description</th>
            <th>Rate</th>
            <th>Rating</th>
            <th>Cooking Time</th>
            <th>Tags</th>
            <th>Cuisine</th>
            <th>Image</th>
            <th>status</th>
        </tr>
    </thead>
    <tbody>
        <tr *ngFor="let item of fooditems">
            <td>{{item.foodId}}</td>
            <td>{{item.foodName}}</td>
            <td>{{item.foodDesc}}</td>
            <td>{{item.rate | currency: "INR"}}</td>
            <td>{{item.rating}}</td>
            <td>{{item.cookingTime}} mins</td>
            <td><li *ngFor="let tag of item.tag">{{tag}}</li></td>
            <td>{{item.cuisine}}</td>
            <td><img class="card-img-top" style="height:5rem;object-fit: cover;"
src="assets/pictures/food{{item.imgUrl}}">{{item.imgUrl}}</td>
            <td><mat-slide-toggle color="accent" [checked]="item.status"
(change)="toggleChanged(item.foodId, $event)"></mat-slide-toggle></td>
        </tr>
    </tbody>
</table>
```

Foodmaster.component.ts

```
import { Component } from '@angular/core';
import { MatSlideToggleChange } from '@angular/material/slide-toggle';
import { foodItem } from 'src/models/foodItem';
import { FoodItemService } from 'src/services/food-item.service';

@Component({
  selector: 'app-foodmaster',
  templateUrl: './foodmaster.component.html',
  styleUrls: ['./foodmaster.component.css']
})
export class FoodmasterComponent {
  fooditems: any;
  constructor(private fditmservice:FoodItemService){

  }

  ngOnInit(){
    this.fditmservice.getAllFoods().subscribe(data=>this.fooditems=data);
  }
  toggleChanged(id:number,event:MatSlideToggleChange){
    let item:foodItem = {
    foodId:id,
    foodName:'',
    foodDesc:'',
    rate:0,
    rating:0,
    cookingTime:0,
    tag:[],
    cuisine:'',
    imgUrl:'',
    status:event.checked
    }
    this.fditmservice.changestatus(item).subscribe(data=>{});

  }
}
```

Landing.component.html

```
<div class="container">
   <app-navbar></app-navbar>
   <div class="list">
      <span style="font-weight: bolder;font-size: larger;margin-bottom: 2rem;">Available 
Foods:</span>
      <app-foodlist></app-foodlist>
   </div>

</div>
```

Landing.component.ts

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

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

}
```

Navbar.component.html

```
<nav class="navbar navbar-light bg-light justify-content-between">
   <a class="navbar-brand" routerLink="">FoodBox</a>
   <div>
      <span *ngIf="currentUser !== 'admin'"><i class="bi bi-cart4"></i>
         {{cart.cartitems.length}} Items </span>
         <button class="btn btn-primary btn-sm" *ngIf="currentUser !== 'admin' && 
cart.cartitems.length>0" routerLink="viewcart">View Cart</button>
   </div>
   <form class="form-inline">
      <span *ngIf="currentUser == 'admin'" ><button routerLink="adminpanel"><i class="bi bi-
menu-button-wide-fill"></i>Go to Admin Panel</button></span>
      <span class="navbar-text">
        Welcome {{currentUser}}!!
        </span>

<button class="btn btn-warning my-2 my-sm-0" *ngIf="!login" 
routerLink="../signin">Login</button>
   <button class="btn btn-warning my-2 my-sm-0" *ngIf="login" (click)="logout()">Sign 
out</button>
   </form>
</nav>
```

Navbar.component.ts

```
import { Component } from '@angular/core';
import { Router } from '@angular/router';
import { cart } from 'src/models/cart';
import { CartService } from 'src/services/cart.service';
import { LoginService } from 'src/services/login.service';

@Component({
  selector: 'app-navbar',
  templateUrl: './navbar.component.html',
  styleUrls: ['./navbar.component.css']
})
export class NavbarComponent {
  currentUser:string = "guest";
  cart:cart = new cart();
  cartitems:number=0;
  login:boolean=true;
  constructor(
    private loginservice:LoginService,
    private router:Router,
    private cartservice:CartService
  ){  }
  ngOnInit(){
    this.currentUser=this.loginservice.getcurrentuser();
    if(this.currentUser=="Guest"){
      this.login=false;
    }
    this.cart = this.cartservice.getcart();
  }
  logout(){
    this.loginservice.logout();
    this.currentUser=this.loginservice.getcurrentuser();
    this.login=false;
    this.router.navigateByUrl("logout");
    alert("Logout Successfull!!")
  }
}
```

Orderhistory.component.html

```
<table class="table table-outlined table-striped">
    <thead class="table-dark">
        <tr>
            <th>Order ID</th>
            <th>Order Details</th>
            <th>Total Order Amount</th>
            <th>User ID</th>
            <th>Order Timestamp</th>
        </tr>
    </thead>
    <tbody>
        <tr *ngFor="let order of bookings">
            <td>{{order.bookingId}}</td>
            <td>{{order.bookingDetails}}</td>
            <td>{{order.bookingAmount | currency:"INR"}}</td>
            <td>{{order.userId}}</td>
            <td>{{order.bookingStamp }}</td>
```

```
      </tr>
   </tbody>
</table>
```

Orderhistory.component.ts

```
import { Component } from '@angular/core';
import { Bookings } from 'src/models/Bookings';
import { BookingService } from 'src/services/booking.service';

@Component({
  selector: 'app-orderhistory',
  templateUrl: './orderhistory.component.html',
  styleUrls: ['./orderhistory.component.css']
})
export class OrderhistoryComponent {
bookings:Bookings[];
constructor(private bookingservice:BookingService){}
ngOnInit(){
  this.bookingservice.getAllBookings().subscribe(x=>this.bookings=x);
}
}
```

Paymentgateway.component.html

```
<a>You are about to make a payment of {{cart.cartprice | currency:"INR"}} for your total
purchase!</a>
<form #userform="ngForm">
   <div class="form-group">
      Enter Your card number
      <input type="text" class="form-control" id="cardnumber"  name="cardnumber" required>
      Enter your card CVV number
      <input type="text" class="form-control" id="cvv"  name="cvv" required>
      Select Date of Expiry of the card
      <input type="date" class="form-control" id="doe" name="doe" required>

   </div>
   <button class="btn btn-success" [disabled]="userform.invalid"(click)="pay()">Pay</button>
</form>
```

Paymentgateway.component.ts

```
import { Component } from '@angular/core';
import { Bookings } from 'src/models/Bookings';
import { cart } from 'src/models/cart';
import { BookingService } from 'src/services/booking.service';
import { CartService } from 'src/services/cart.service';
import { LoginService } from 'src/services/login.service';

@Component({
  selector: 'app-paymentgateway',
  templateUrl: './paymentgateway.component.html',
  styleUrls: ['./paymentgateway.component.css']
})
export class PaymentgatewayComponent {
cart:cart;
bkng: Bookings = {
  bookingId: 0,
  userId: 0,
  bookingDetails: [],
  bookingAmount: 0,
  bookingStamp: new Date()
}
bookingID: string='0';
constructor(
  private cartservice:CartService,
  private bookingservice:BookingService,
  private loginservice:LoginService
  ){}
ngOnInit(){
  this.cart=this.cartservice.getcart();
}
pay(){
let prompt:any;
prompt= confirm("Do you Confirm your purchase of "+this.cart.cartprice+" INR for the total
order?");
if(prompt){
    this.bkng.userId = this.loginservice.getcurrentusrobject().userId;
    this.bkng.bookingAmount = this.cart.cartprice;
    this.bkng.bookingStamp = new Date();
    this.cart.cartitems.forEach(x => {
      this.bkng.bookingDetails.push(x.food.foodName +'--'+ x.quantity.toString()+' Nos.');
    });
    if(this.bkng.userId){
      this.bookingservice.saveBooking(this.bkng).subscribe(res => {
        console.log(res);
        this.bookingID = res.status
        alert("Order Placed!! Order ID -"+this.bookingID);
      });

}else{
  alert("Payment Aborted!");
}
}
}
}
```

Signin.component.html

```
<!-- Section: Design Block -->
<section class="background-radial-gradient overflow-hidden">

    <div class="container px-4 py-5  text-center text-lg-start my-5">
      <div class="row gx-lg-5 align-items-center mb-5">
        <div class="col-lg-6 mb-5 mb-lg-0" style="z-index: 10">
            <h1 class="my-5 display-5 fw-bold ls-tight" style="color: hsl(0, 84%, 95%)">
              <br />
             <span style="color: hsl(0, 81%, 75%)">FoodBox</span>
            </h1>
            <p class="mb-4 opacity-70" style="color: hsl(0, 82%, 85%)">
              FoodBox is a food ordering application that makes it easy and convenient for customers
to order their favorite meals from local restaurants. With a user-friendly interface and a wide
selection of restaurants to choose from, FoodBox takes the hassle out of mealtime. Customers can
browse menus, place orders, and track their delivery in real-time, all from the comfort of their
own home. Whether you’re in the mood for pizza, sushi, or something in between, FoodBox has
got you covered.
            </p>
          </div>
        <div class="col-lg-6 mb-5 mb-lg-0 position-relative">
          <div id="radius-shape-1" class="position-absolute rounded-circle shadow-5-strong"></div>
          <div id="radius-shape-2" class="position-absolute shadow-5-strong"></div>

          <div class="card bg-glass">
            <div class="card-body px-4  px-md-5">
              <div class="text-center py-3" style="color: hsl(0, 100%,
46%)"><b><h1>FoodBox</h1></b></div>
              <mat-slide-toggle class="mb-3" (change)="togglesignin()">Sign in as {{person}}</mat-
slide-toggle>
             <form>
              <!-- 2 column grid layout with text inputs for the first and last names -->

                <div class="col">
                  <div class="form-outline">
                    <input type="text" id="usrname" name="usrname"class="form-control"
[(ngModel)]="usrname"/>
                    <label class="form-label" for="usrname">Username or E-mail address</label>
                  </div>
                </div>

              <!-- Password input -->
              <div class="col">
                <input type="password" id="password" name="password"class="form-control"
[(ngModel)]="password"/>
                <label class="form-label" for="password">Password</label>
              </div>



              <!-- Submit button -->
              <button type="submit" class="btn btn-primary btn-block mb-4" (click)="signin()">
                Sign in
              </button>


             </form>
            </div>
          </div>
        </div>
      </div>
    </div>
   </section>
   <!-- Section: Design Block -->
```

<u>Signin.component.ts</u>

```
import { Component } from '@angular/core';
import { Router } from '@angular/router';
import { admin } from 'src/models/admin';
import { user } from 'src/models/user';
import { LoginService } from 'src/services/login.service';

@Component({
  selector: 'app-signin',
  templateUrl: './signin.component.html',
  styleUrls: ['./signin.component.css']
})
export class SigninComponent {
person:string="User";
usrname:string;
password:string;
constructor(
  private loginservice:LoginService,
  private router:Router
){}
togglesignin(){
  if(this.person=="User"){
    this.person="Admin";
  }else{
    this.person="User";
  }
}
  async signin(){
  if(this.person=="User"){
    console.log("signing in as user...........");
    let usr:user=new user();
    usr.userName=this.usrname;
    usr.password=this.password;

   if(await this.loginservice.authenticateuser(usr)){

    alert("Sign in Successfull!")
    this.usrname="";
    this.password="";
    this.router.navigateByUrl("/");
   }else{
    alert("Sign in failed")
   }
  }else if(this.person=="Admin"){
    console.log("Signing in as Admin!!");
    let ad:admin =new admin();
    const expression: RegExp = /^[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,}$/i;
    if(expression.test(this.usrname)){
      ad.email=this.usrname;
    }else{
      ad.userName=this.usrname;
    }
    ad.password=this.password;

    if(await this.loginservice.authenticateadmin(ad)){
      alert("Login Successfull!");
      this.usrname="";
      this.password="";
      this.router.navigateByUrl("adminpanel");
    }else{
      alert("Login failed!!");
    }

  }
}
```

```
}
```

Usermaster.component.html

```
<button class="btn btn-primary" routerLink="adduser">Add User</button>
<router-outlet></router-outlet>
<table class="table table-bordered table-striped">
  <thead class="table-dark">
    <tr>
      <th>User ID</th>
      <th>User Full Name</th>
      <th>Username</th>
      <th>e-mail</th>
      <th>Country</th>
      <th>Actions</th>
    </tr>
  </thead>
  <tbody>
    <tr *ngFor="let user of users">
      <td>{{user.userId}}</td>
      <td>{{user.firstName+' '+user.lastName}}</td>
      <td>{{user.userName}}</td>
      <td>{{user.email}}</td>
      <td>{{user.country}}</td>
      <td><button class="btn btn-danger" (click)="deleteuser(user.userId)">Delete
User</button></td>
    </tr>
  </tbody>
</table>
```

Usermaster.component.ts

```
import { Component } from '@angular/core';
import { user } from 'src/models/user';
import { UserService } from 'src/services/user.service';

@Component({
  selector: 'app-usermaster',
  templateUrl: './usermaster.component.html',
  styleUrls: ['./usermaster.component.css']
})
export class UsermasterComponent {
  users:user[];
  constructor(private usrservice:UserService){

  }
  ngOnInit(){
    this.usrservice.getAllUsers().subscribe(data=>{
      this.users=data;
    });
  }
  deleteuser(id:number){
    this.usrservice.deleteuser(id).subscribe(data=>{});
    this.users = this.users.filter(x=>x.userId!=id);
    alert("User Deleted!!")
  }
}
```

Viewcart.component.html

```
<div class="container">
  <app-navbar></app-navbar>

  <div>
    <div style="float:left;display:inline;width:60%">
      <div id="cartitems">
        <div>
          <span style="display:inline; float:left;"><b><i class="bi bi-cart4"></i> Your Cart
              Items:</b></span>
        </div>
        <div style="display:inline" class="mx-5">
          <button class="btn btn-warning btn-sm" (click)="Checkout()">Checkout</button>
        </div>
        <div style="display:inline; float:right;" class="mx-5">
          <i class="bi bi-cart4"></i><b> Your Cart Total:</b>
          <p class="text-primary"><b>{{cart.cartprice | currency:"INR"}}</b></p>
        </div>
        <div class="clearfix"></div>
        <div class="card" *ngFor="let item of cart.cartitems">
          <div class="card-body">
            <div class="row">
              <table>
                <tr>
                  <th style="width:35%;">Title</th>
                  <th style="width:15%;">Quantity</th>
                  <th style="width:25%;">Price</th>
                  <th style="width:25%;" class="text-center">Action</th>
                </tr>
                <tr>
                  <td style="width:35%;"> {{item.food.foodName}}</td>
                  <td style="width:15%;">{{item.quantity}}</td>
                  <td style="width:25%;"> {{item.cartitemprice | currency:"INR"}}</td>
                  <td style="width:25%;" class="text-center">
                    <input style="width:45px" type="number" min="1"
                      value="{{item.quantity}}" (change)="changequantity(item,$event)">
                    <a class="btn btn-danger btn-sm" (click)="removefromcart(item)"><i
                        class="bi bi-x"></i></a>
                  </td>
                </tr>
              </table>

            </div>

          </div>
        </div>


      </div>
    </div>
    <div class="checkout" style="float:right;width:30%">
      <app-checkout *ngIf="checkoutstatus.checkout"></app-checkout>
      <div class="clearfix"></div>
    <div class="paygate my-2">
      <app-paymentgateway *ngIf="checkoutstatus.paymentgateway"></app-paymentgateway>
      </div>
      </div>


   </div>
</div>
```

Viewcart.component.ts

```
import { Component } from '@angular/core';
import { Route, Router } from '@angular/router';
import { cart } from 'src/models/cart';
import { cartitem } from 'src/models/cartitem';
import { CartService } from 'src/services/cart.service';
import { LoginService } from 'src/services/login.service';

@Component({
  selector: 'app-viewcart',
  templateUrl: './viewcart.component.html',
  styleUrls: ['./viewcart.component.css']
})
export class ViewcartComponent {
  cart:cart;
  checkoutstatus:{
    checkout:boolean,
    paymentgateway:boolean
  }
constructor(
  private cartservice:CartService,
  private loginservice:LoginService,
  private router:Router){}
ngOnInit(){
  this.cart=this.cartservice.getcart();
  this.checkoutstatus=this.cartservice.getcheckoutstatus();
}
removefromcart(item:cartitem){
  this.cartservice.removefromcart(item.food.foodId);
}
changequantity(item:cartitem,event:any){
  this.cartservice.changequantity(item.food.foodId,event.target.value);
}
Checkout(){
  if(!this.loginservice.getuserloginstatus()){
    alert("You are not logged in!! Kindly login to continue!!");
    this.router.navigateByUrl("signin");
    return;
  }
  this.checkoutstatus.checkout=true;
}

}
```

App-routing.module.ts

```
import {  NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { LandingComponent } from './landing/landing.component';
import { AdminpanelComponent } from './adminpanel/adminpanel.component';
import { FoodmasterComponent } from './foodmaster/foodmaster.component';
import { UsermasterComponent } from './usermaster/usermaster.component';
import { OrderhistoryComponent } from './orderhistory/orderhistory.component';
import { ChangepasswordComponent } from './changepassword/changepassword.component';
import { AddfoodComponent } from './addfood/addfood.component';
import { AdduserComponent } from './adduser/adduser.component';
import { SigninComponent } from './signin/signin.component';
import { ViewcartComponent } from './viewcart/viewcart.component';
import { AdminAuthGuard } from 'src/gaurds/admin-auth.guard';

const routes: Routes = [
  {path:'', component:LandingComponent},
  {path:'logout',redirectTo:'',pathMatch:'full'},
  {path:'adminpanel', component:AdminpanelComponent,
canActivate:[AdminAuthGuard],children:[
    {path:'foodmaster', component:FoodmasterComponent, children:[
      {path:'addfood',component:AddfoodComponent}
    ]},
    {path:'usermaster', component:UsermasterComponent,children:[
      {path:'adduser', component:AdduserComponent}
    ]},
    {path:'orderhistory', component:OrderhistoryComponent},
    {path:'changepassword', component:ChangepasswordComponent}
  ]},
  {path:"signin",component:SigninComponent},
  {path:"viewcart",component:ViewcartComponent}
];

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

}
```

App.component.html

```
<router-outlet></router-outlet>
```

App.module.ts

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { LandingComponent } from './landing/landing.component';
import { NavbarComponent } from './navbar/navbar.component';
import { FoodlistComponent } from './foodlist/foodlist.component';
import {HttpClientModule} from '@angular/common/http';
import { AdminpanelComponent } from './adminpanel/adminpanel.component';
import { FoodmasterComponent } from './foodmaster/foodmaster.component';
import { UsermasterComponent } from './usermaster/usermaster.component';
import { OrderhistoryComponent } from './orderhistory/orderhistory.component';
import { ChangepasswordComponent } from './changepassword/changepassword.component';
import { AddfoodComponent } from './addfood/addfood.component'
import { FormsModule } from '@angular/forms';
import { MatSlideToggleModule } from '@angular/material/slide-toggle';
import { BrowserAnimationsModule } from '@angular/platform-browser/animations';
import { AdduserComponent } from './adduser/adduser.component';
import { SigninComponent } from './signin/signin.component';
import { ViewcartComponent } from './viewcart/viewcart.component';
import { CheckoutComponent } from './checkout/checkout.component';
import { PaymentgatewayComponent } from './paymentgateway/paymentgateway.component';

@NgModule({
  declarations: [
    AppComponent,
    LandingComponent,
    NavbarComponent,
    FoodlistComponent,
    AdminpanelComponent,
    FoodmasterComponent,
    UsermasterComponent,
    OrderhistoryComponent,
    ChangepasswordComponent,
    AddfoodComponent,
    AdduserComponent,
    SigninComponent,
    ViewcartComponent,
    CheckoutComponent,
    PaymentgatewayComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    HttpClientModule,
    FormsModule,
    MatSlideToggleModule,
    BrowserAnimationsModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

Admin.ts

```
export class admin{
    adminId:number;
    userName:string;
    password:string;
    email:string;
    role:string;
}
```

Authentication.ts

```
export class authentication{
    admin:string;
    authentication:string;
}
```

Bookings.ts

```
export class Bookings{
    bookingId:number;
    userId:number;
    bookingDetails:string[];
    bookingAmount:number;
```

```
   bookingStamp:Date;
}
```

Cart.ts

```
import { cartitem } from "./cartitem";

export class cart{
   cartitems:cartitem[]=[];
   get cartprice():number{
      let totalprice:number=0;
      this.cartitems.forEach(x=>totalprice=totalprice+x.cartitemprice);
      return totalprice;
   }
}
```

Cartitem.ts

```
import { foodItem } from "./foodItem";

export class cartitem{
   quantity:number=1;
   food:foodItem;
   get cartitemprice():number{
   return this.food.rate * this.quantity;
   }
}
```

Fooditem.ts

```
export class foodItem {
   foodId:number;
   foodName:string;
   foodDesc:string;
   rate:number;
   rating:number;
   cookingTime:number;
   tag:string[];
   cuisine:string;
   imgUrl:string;
   status:boolean;
}
```

Status.ts

```
export class status {
   status:string;
}
```

User.ts

```
export class user{
   userId:number;
   firstName:string;
   middleName:string;
   lastName:string;
   userName:string;
   email:string;
   password:string;
   country:string
}
```

Admin.service.ts

```
import { HttpClient, HttpParams } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
import { admin } from 'src/models/admin';
import { authentication } from 'src/models/authentication';
import { status } from 'src/models/status';

@Injectable({
  providedIn: 'root'
})
export class AdminService {
  baseurl:string='http://localhost:8080/api/admin/';
  constructor(private http:HttpClient) {

   }
   addadminuser(ad:admin):Observable<status>{
    return this.http.post<status>(this.baseurl+"addAdminUser",ad);
   }
   findadmin(searchterm:string):Observable<admin>{
    let params=new HttpParams().set("q",searchterm);
    return this.http.get<admin>(this.baseurl+"findadmin",{params:params});
   }
   deleteadminuser(id:number):Observable<status>{
    return this.http.delete<status>(this.baseurl+"remove/"+id);
   }
   changepassword(ad:admin):Observable<status>{
    return this.http.put<status>(this.baseurl+"changepassword",ad);
   }
   adminauthenticate(ad:admin):Observable<authentication>{
    return this.http.post<authentication>(this.baseurl+"authenticate",ad);
   }
}
```

Booking.service.ts

```
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
import { Bookings } from 'src/models/Bookings';
import { status } from 'src/models/status';

@Injectable({
  providedIn: 'root'
})
export class BookingService {
  baseUrl:string='http://localhost:8080/api/bookings';
  constructor(private http:HttpClient) { }

  getAllBookings():Observable<Bookings[]> {
    return this.http.get<Bookings[]>(this.baseUrl+"/all");
  }
  saveBooking(bk:Bookings):Observable<status>{
    return this.http.post<status>(this.baseUrl+"/saveBooking",bk);
  }
}
```

Cart.service.ts

```
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
import { cart } from 'src/models/cart';
import { cartitem } from 'src/models/cartitem';

@Injectable({
  providedIn: 'root'
})
export class CartService {
  cart:cart = new cart();
  checkoutstatus:{
    checkout:boolean,
    paymentgateway:boolean
  } = {
    checkout:false,
    paymentgateway:false
  }
  constructor() { this.cart.cartitems=[]}

  public addtocart(item:cartitem){
    let cartitem=this.cart.cartitems.find(x=>x.food.foodId==item.food.foodId);
    if(cartitem){
      this.changequantity(cartitem.food.foodId,cartitem.quantity+1);
      return;
    }

    this.cart.cartitems.push(item);

  }
  changequantity(foodid:number,quantity:number){
    let cartitem=this.cart.cartitems.find(x=>x.food.foodId==foodid);
    if(!cartitem) return
    cartitem.quantity=quantity;
  }
  getcart():cart{
    return this.cart;
  }
  resetcart(){
    this.cart=new cart();
  }
  removefromcart(foodid:number){
    this.cart.cartitems = this.cart.cartitems.filter(c=>c.food.foodId !== foodid);
  }
  getcartitemquantity():number{
    return this.cart.cartitems.length;
  }
  getcheckoutstatus(){
    return this.checkoutstatus;
  }
}
```

Food-item.service.ts

```
import { HttpClient, HttpParams } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
import { foodItem } from 'src/models/foodItem';
import { status } from 'src/models/status';

@Injectable({
  providedIn: 'root'
})
export class FoodItemService {
baseurl:string='http://localhost:8080/api/food/';
  constructor(private http:HttpClient) { }

  getAllFoods():Observable<foodItem[]>{
    return this.http.get<foodItem[]>(this.baseurl+'all');
  }

  addFoodItem(item:foodItem):Observable<status>{
    return this.http.post<status>(this.baseurl+'addfood',item);
  }

  deleteFood(id:number):Observable<status>{
    return this.http.delete<status>(this.baseurl+'delete/'+id);
  }

  getFoodById(id:number):Observable<foodItem[]>{
    return this.http.get<foodItem[]>(this.baseurl+'find/'+id);
  }

  getFoodByName(name:string):Observable<foodItem[]>{
    let params = new HttpParams().set('name', name);
    return this.http.get<foodItem[]>(this.baseurl+'find',{params:params});
  }

  updateFoodDetails(food:foodItem):Observable<status>{
    return this.http.patch<status>(this.baseurl+'update/'+food.foodId,food);
  }
  changestatus(item:foodItem):Observable<status>{

    return this.http.post<status>(this.baseurl +'statuschange', item);
  }
}
```

<u>Login.service.ts</u>

```
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { user } from 'src/models/user';
import { UserService } from './user.service';
import { admin } from 'src/models/admin';
import { authentication } from 'src/models/authentication';
import { AdminService } from './admin.service';
import { firstValueFrom } from 'rxjs/internal/firstValueFrom';

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

  private currentuser: string = "Guest"
  private currentusr: user;
  private adminloginstatus: boolean = false;
  private adminusr: admin;
  private userloginstatus: boolean = false;
```

```
constructor(
  private http: HttpClient,
  private usrservice: UserService,
  private adminservice: AdminService
) { }

public getcurrentuser(): string {
  return this.currentuser;
}

public getcurrentusrobject(): user {
  return this.currentusr;
}
public getcurrentadminobject(): admin {
  return this.adminusr;
}
public getadminloginstatus(): boolean {
  return this.adminloginstatus;
}
public getuserloginstatus(): boolean {
  return this.userloginstatus;
}

public async authenticateadmin(ad: admin): Promise<boolean> {
  this.logout();
  let authentication: boolean = false;
  await firstValueFrom(this.adminservice.adminauthenticate(ad)).then(data => {
    if (data.admin == "1") {
      if (data.authentication == "1") {
        alert("Authentication successfull!");
        this.currentuser="admin";
        this.adminloginstatus = true;
        let searchterm: string = "";
        if (ad.email) {
          searchterm = ad.email;
        } else if (ad.userName) {
          searchterm = ad.userName;
        }
        this.adminservice.findadmin(searchterm).subscribe(res => { this.adminusr = res; });
        authentication = true;
      } else {
        alert("bad credentials");
      }
    } else {
      alert("Admin user not found!")
    }
  });
  return authentication;
}

public async authenticateuser(usr: user): Promise<boolean> {

  this.logout();
  let authentication: boolean = false;
```

```
    await firstValueFrom(this.usrservice.finduser(usr.userName)).then(data => {

      if (data.password == usr.password) {

        alert("Authentication successfull!");
        this.userloginstatus = true;
        this.currentuser = data.firstName + ' ' + data.lastName;
        this.currentusr = data;
        authentication = true;

      } else {
        alert("Authentication Failed");
      }
    });
    console.log("Returning success message!!")
    return authentication;
  }

  public logout() {
    console.log("Logging out!!");
    this.adminloginstatus = false;
    this.userloginstatus = false;
    this.adminusr = new admin();
    this.currentuser = "Guest";
    this.currentusr = new user();

  }
}
```

User.service.ts

```
import { Injectable } from '@angular/core';
import {HttpClient, HttpParams} from '@angular/common/http'
import { user } from 'src/models/user';
import { Observable } from 'rxjs';
import { status } from 'src/models/status';
@Injectable({
  providedIn: 'root'
})
export class UserService {
  baseurl:string='http://localhost:8080/api/user/';
  constructor(private http:HttpClient) { }

  getAllUsers():Observable<user[]>{
    return this.http.get<user[]>(this.baseurl+'all');
  }

  finduser(findterm:string):Observable<user>{
    let params = new HttpParams().set('name',findterm)
    return this.http.get<user>(this.baseurl+'finduser',{params:params});
  }

  updateuser(usr:user):Observable<status>{
    return this.http.patch<status>(this.baseurl+'updateuser/'+ usr.userId,usr);
  }

  adduser(usr:user):Observable<status>{
    return this.http.post<status>(this.baseurl+"adduser",usr);
  }

  deleteuser(id:number):Observable<status>{
    return this.http.delete<status>(this.baseurl+"remove/"+id);
  }
}
```

Admin-auth.gaurd.ts

```
import { Injectable } from '@angular/core';
import { ActivatedRouteSnapshot, CanActivate, RouterStateSnapshot, UrlTree } from
'@angular/router';
import { Observable } from 'rxjs';
import { LoginService } from 'src/services/login.service';

@Injectable({
  providedIn: 'root'
})
export class AdminAuthGuard implements CanActivate {
  constructor(private loginservice:LoginService){}
  canActivate(
    route: ActivatedRouteSnapshot,
    state: RouterStateSnapshot): Observable<boolean | UrlTree> | Promise<boolean | UrlTree> |
boolean | UrlTree {

    if(this.loginservice.getadminloginstatus()){
      return true;
    }else{
      alert("Kindly login as admin to continue!!")
      return false;
    }
  }

}
```