

**Interns**

## **Online Trip Management System**



# **PROBLEM STATEMENT 1**

**Admin should be able to perform below operations:**

- 1. Login into the Application**
- 2. User Management**
- 3. Tours/Travels Package Management**
- 4. Route and Bus Management**
- 5. Ticket and Hotel Booking Management**
- 6. View Reports**

## PROBLEM STATEMENT 2

**User should be able to perform below operations:**

1. Login as Customer
2. View Routes
3. View Tours/Travels Packages
4. Book / Print / Cancel Tickets
5. Payment
6. Provide/View Testimonials

## Road Map

Application will be developed in following Sprints –

1. Core Java 8
2. Spring Boot + Rest Controller + JPA with Hibernate + Spring Security
3. Swagger UI.
4. Angular for UI design (Front End) + HTML5 + Boot Strap
5. Spring Testing
6. Maven, Sonarqube, Git



# **PLAN**

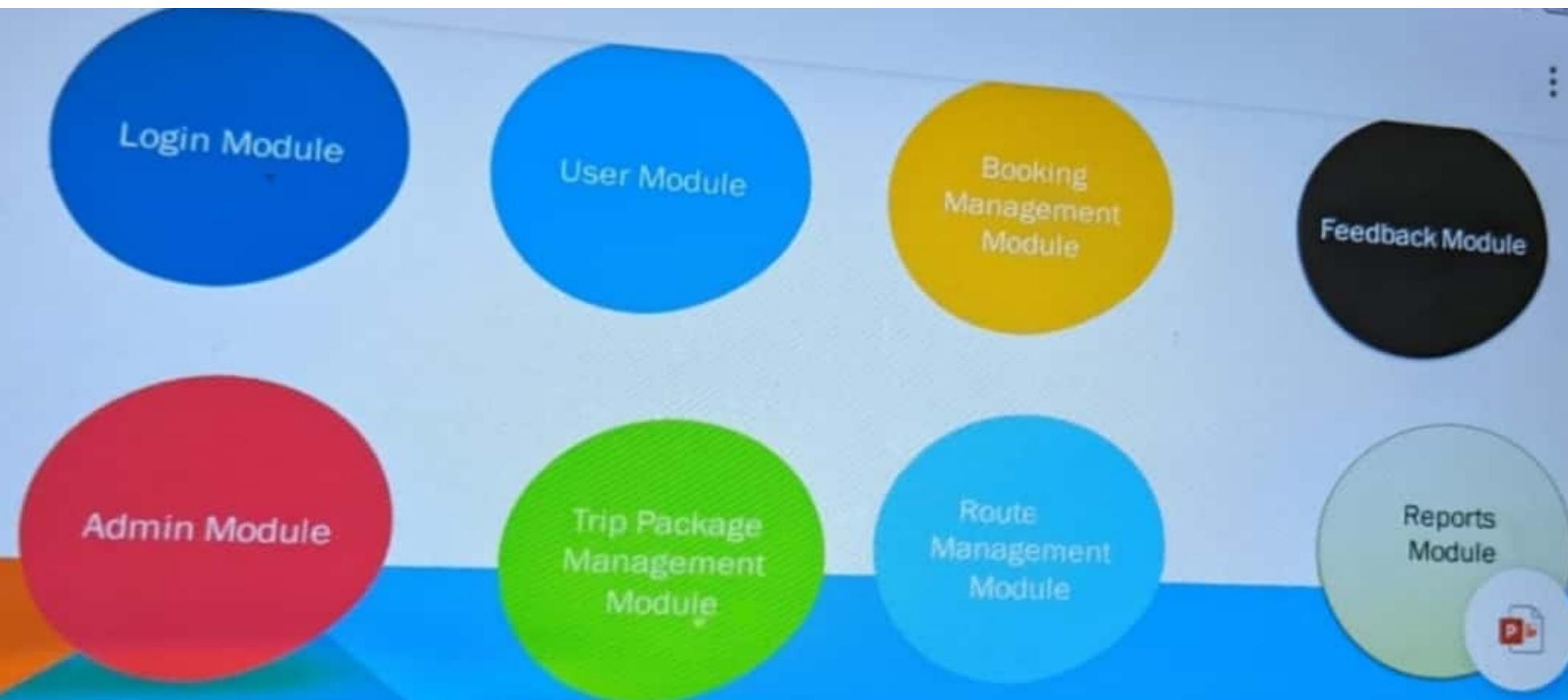
## **1. Design**

1. Generate the skeleton as per class design provided

## **2. TDD approach**

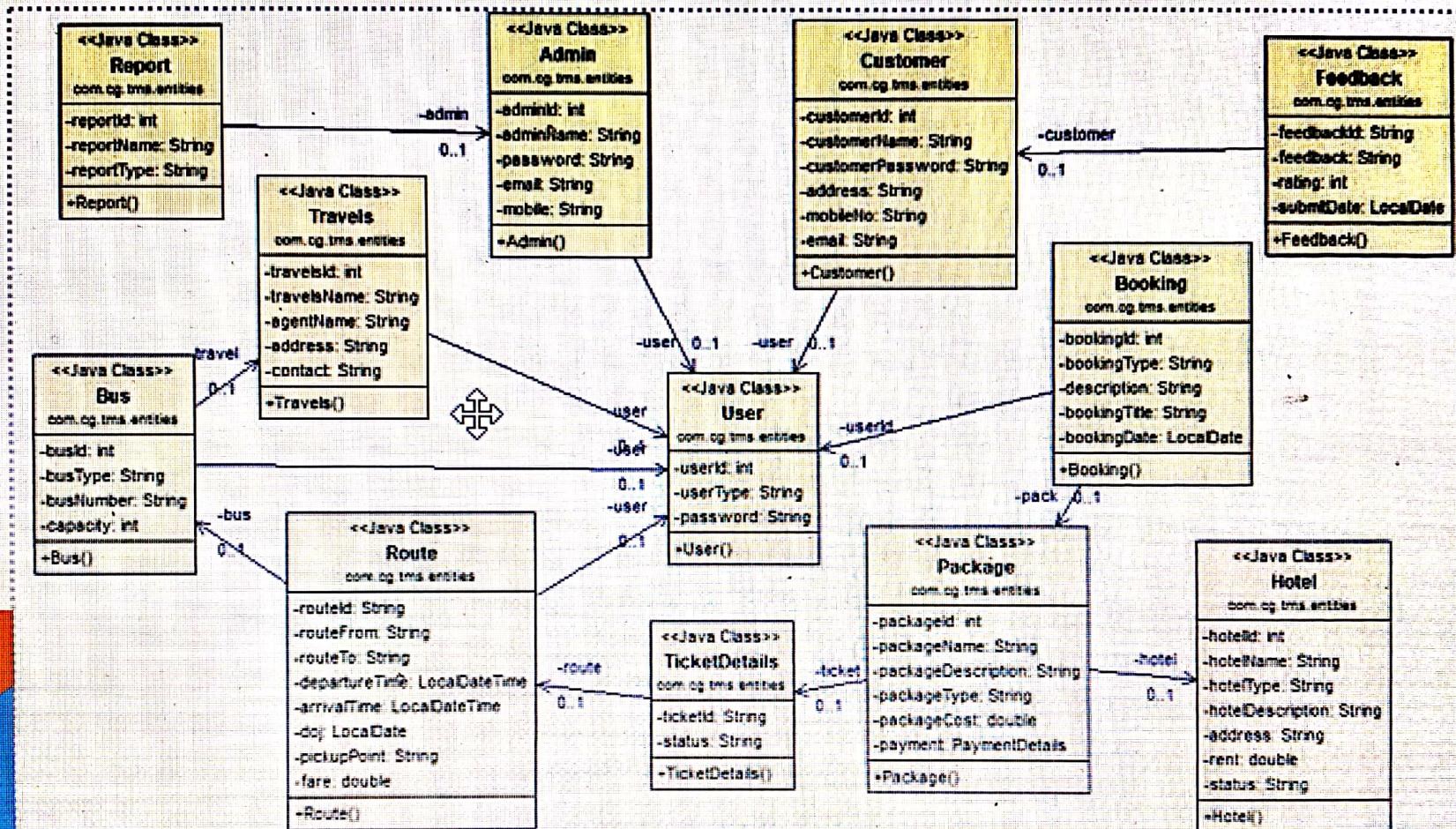
1. Identify test cases for each module
2. Write Failing Test cases
3. Convert the Test Cases in GREEN

## **3. Implement the case study in incremental manner**



# Class Design

## POJO Classes:



**<<Java Interface>>**  
**ICustomerService**  
com.og.tms.service

+addCustomer(Customer):Customer  
+updateCustomer(Customer):Customer  
+deleteCustomer(Customer):Customer  
+viewCustomer(int):Customer  
+viewAllCustomers():List<Customer>  
+viewCustomerList(int):List<Customer>

**<<Java Interface>>**  
**IUserService**  
com.og.tms.service

+addNewUser(User):User  
+signIn(User):User  
+signOut(User):User

**<<Java Interface>>**  
**IBooking Service**  
com.og.tms.service

+makeBooking(Booking):Booking  
+cancelBooking(int):Booking  
+viewBooking(int):Booking  
+viewAllBookings():List<Booking>

**<<Java Interface>>**  
**IPackageService**  
com.og.tms.service

+addPackage(Package):Package  
+deletePackage(int):Package  
+searchPackage(int):Package  
+viewAllPackages():List<Package>

**<<Java Interface>>**  
**IFeedback Service**  
com.og.tms.service

+addFeedback(Feedback):Feedback  
+findByFeedbackId(int):Feedback  
+findByCustomerId(int):Feedback  
+viewAllFeedbacks():List<Feedback>

**<<Java Interface>>**  
**IReportService**  
com.og.tms.service

+addReport(Report):Report  
+deleteReport(int):Report  
+viewReport(int):Report  
+viewAllReports():Report

**<<Java Interface>>**  
**ITravels Service**  
com.og.tms.service

+addTravels(Travels):Travels  
+updateTravels(Travels):Travels  
+removeTravels(int):Travels  
+searchTravels(int):Travels  
+viewTravels():List<Travels>

**<<Java Interface>>**  
**IRouteService**  
com.og.tms.service

+addRoute(Route):Route  
+updateRoute(Route):Route  
+removeRoute(int):Route  
+searchRoute(int):Route  
+viewRouteList():List<Route>

<<Java Interface>>

### ICustomerRepository

com.cg.tms.repository

- +addCustomer(Customer):Customer
- +updateCustomer(Customer):Customer
- +deleteCustomer(Customer):Customer
- +viewCustomer(int):Customer
- +viewAllCustomers(int):List<Customer>
- +viewCustomerList(int):List<Customer>

<<Java Interface>>

### IUserRepository

com.cg.tms.repository

- +addNewUser(User):User
- +signIn(User):User
- +signOut(User):User

<<Java Interface>>

### IBookingRepository

com.cg.tms.repository

- +makeBooking(Booking):Booking
- +cancelBooking(int):Booking
- +viewBooking(int):Booking
- +viewAllBookings():List<Booking>

<<Java Interface>>

### IPackageRepository

com.cg.tms.repository

- +addPackage(Package):Package
- +deletePackage(int):Package
- +searchPackage(int):Package
- +viewAllPackages():List<Package>

<<Java Interface>>

### IFeedbackRepository

com.cg.tms.repository

- +addFeedback(Feedback):Feedback
- +findFeedbackId(int):Feedback
- +findbyCustomerId(int):Feedback
- +viewAllFeedbacks():List<Feedback>

<<Java Interface>>

### IReportRepository

com.cg.tms.repository

- +addReport(Report):Report
- +deleteReport(int):Report
- +viewReport(int):Report
- +viewAllReports():Report

<<Java Interface>>

### ITravelsRepository

com.cg.tms.repository

- +addTravels(Travels):Travels
- +updateTravels(Travels):Travels
- +removeTravels(int):Travels
- +searchTravels(int):Travels
- +viewTravels():List<Travels>

<<Java Interface>>

### IRouteRepository

com.cg.tms.repository

- +addRoute(Route):Route
- +updateRoute(Route):Route
- +removeRoute(int):Route
- +searchRoute(int):Route
- +viewRouteList():List<Route>

