Members: Anupkumar Bochare (002306798) Krittivasan Vishnampet Jagannathan (002341559) Kaushik Jayaprakash (002300709) **Boston Tourism Management System (BTMS)** Main Class private static BookingService instance; **User Credentials** private List<Attraction> attractions; private List<Hotel> hotels; _..._... private List<Restaurant> restaurants; private List<TransportationRoute> routes; User Credentials Manager private List<Tour> tours; private List<Booking> bookings; private static UserCredentialsManager instance; private List<TourGuide> guides; private Map<String, UserCredentials> userCredentials; private List<Event> events; private Map<String, String> userOrganizations; private List<Tourist> tourists; private Map<String, String> userEnterprises; private List<HospitalityProperty> properties; private List<EventManager> eventManagers; private void initializeDefaultCredentials() private List<TransportManager> transportManagers; blic boolean validateUser(String username, String password) private List<ViewAttractionAndEventPanel> touristPanels = new ArrayList<>(); public boolean updatePassword(String username, String newPassword) private List<ServiceFeedback> serviceFeedbacks; private List<UserManagementJPanel> userManagementPanels = new ArrayList<>(); public static synchronized BookingService getInstance() private void initializeEventManagerData() public List<EventManager> getEventManagers() User Session private void initializeData() private static UserSession instance; private void initializeGuides() private String username; private void initializeEvents() private String organization; private void initializeHospitalityData() private String enterprise; private void initializeTransportManagerData() public void setEnterprise(String enterprise) public void setOrganization(String organization) public void setUsername(String username) + · · - · · - · · - Data Analyst Market Researcher private List<BookingService> bookingservice; private List<Attraction> attractions; private static UserCredentialsManager instance; private void initializeData() private List<Booking> bookings; private void initializeGuides() private Map<String, UserCredentials> userCredentials; private List<Event> events; private void initializeEvents() private Map<String, String> userOrganizations; private void initializeTourists() private Map<String, String> userEnterprises; private void setupCustomLayout() private void initializeHospitalityData() private void loadAttractionAnalytics() private void initializeTransportManagerData() private void initializeDefaultCredentials() private void loadEventAnalytics() public boolean validateUser(String username, String password) private void loadData() **Transportation** ~··—··—··—··—··—··+··—··—··+ private int eventId; private String name; Transportation Route _____ Public Transport Manager private String location; private int managerId; private String description; private int routeId; private String name; private int managerId; private String routeName; private double ticketPrice; private String username; private String name; private String startLocation; private String date; private String password; private String username; private String endLocation; private String time; private String contactInfo; private String password; private double price; private int capacity; private String specialization; private boolean active; private int frequency; private int initialCapacity; // Add this field private boolean isActive; private boolean isActive; private int capacity; public List<TransportationRoute> getRoutes() private String category; private boolean routeActiveStatus; public void setUsername(String username) public void addRoute(TransportationRoute route) private String organizer; public void setPassword(String password) public void setRouteName(String routeName) { public void deleteRoute(String routeName) this.routeName = routeName; } public void setEventId(int eventId) { this.eventId = eventId; } public void updateRoute(TransportationRoute updatedRoute) public void setFrequency(int frequency) { public void setName(String name) { this.name = name; } public void setLocation(String location) { this.location = location; } this.frequency = frequency; } · + · · - · · - · · - · · - · · + | · - · · - · · - · · - · · - · · - · · - · · Hospitality Manager private int hospitalmanagerId; private String name; private String username; private String password; private boolean active; private void initializeHospitalityData() private List<HospitalityProperty> properties; Hospitality Property private int propertyId; private String name; private String type; private double floorPrice; private double ceilingPrice; private boolean isActive; private String managerType; Tour Guide Manager public void setPropertyId(int propertyId) { this.propertyId = propertyId; } private int guideld; public void setName(String name) { this.name = name; } private String name; public void setType(String type) { this.type = type; } private String username; private String password; private String contactInfo; private boolean active; public void setGuideId(int guideId) public void setName(String name) Restaurant private int hotelld; private int restaurantId; private String name; private String name; Tourist private String location; private String cuisine; Attraction private String description; private String location; private List<Booking> bookings; private int totalRooms; private int capacity; private int attractionId; private String tourName; private List<Attraction> attraction; private String name; private String guide; private List<Hotel> hotel; oublic void setHotelId(int hotelId) { this.hotelId = hotelId; } public void setRestaurantId(int restaurantId) private String location; private int capacity; private List<Restaurant> restaurant; public void setName(String name) { this.name = name; } public void setName(String name) private String description; private double price; private List<Tour> tour; public boolean bookRoom() public void setCuisine(String cuisine) private double ticketPrice; private boolean isActive; private List<Events> events; public boolean cancelBooking() public void setLocation(String location) private String hours; private int availableSpots; public boolean hasVacancy() public void setCapacity(int capacity) private int capacity; private String schedule; public List<Booking> getbookings; private boolean isActive; private int tourId; public List<Attraction> getattraction; private String category; public List<Hotel>gethotel; private String imageUrl; public List<Restaurant> getrestaurant; public boolean cancelSpots(int spots) private int currentVisitors; Dependencies public List<Tour> gettour; public boolean bookSpots(int spots) private String contactInfo; public List<Events> getevents; private int bookingCount; private int initialCapacity; private List<Attraction> attractions; public void setImageUrl(String imageUrl) QR Code Generator Weather Service public void setCurrentVisitors(int currentVisitors) public class QRCodeGenerator public class WeatherService public static void public JSONObject generateAndShowQRCode(String getWeatherData() throws Exception bookingDetails) private int bookingId; private String touristId; private int itemId; // attraction or event id private String itemType; // "ATTRACTION" or "EVENT" private String date; private int quantity; private boolean isActive; private List<Booking> bookings; public void setItemType(String itemType) public void setQuantity(int quantity) Dependencies