Class Diagram for Travel With Me

Security
- users: Map<String, User>
- loggedInUsers: Set<User>

+ authenticate(username: String, password: String): boolean
+ authorize(user: User, role: String): boolean
+ addUser(user: User): void
+ removeUser(userId: String): void
+ encrypt(data: String): String
+ decrypt(encryptedData: String): String

SignUp
- users: Map<String, User>

+ signUp(username: String, password: String, email: String): boolean
+ addUser(user: User): void
+ isUsernameAvailable(username: String): boolean
+ isEmailAvailable(email: String): boolean

Dashbord
- bookings: List<Booking>
- statistics: Statistics
- touristInfo: Map<String, TouristInfo>

+ displayBookings(): void
+ displayTouristInfo(): void
+ generateStatistics(): void
+ exportReports(): void

Forgot Passward
- requestId: String
- userId: String
- requestTime: Date
- isExpired: boolean

+ createResetRequest(userId: String)
+ validateRequest(requestId: String)
+ resetPassword(requestId: String, newPassword: String)
+ markRequestAsExpired(requestId: String)

Destination
- destinationId: int
- destinationName: string
- description: string

+exploreDestination()

View Package
- packageId: int
- packageName: string
- destination: string
- price: float

+viewPackageDetails()
+checkAvailability()

Add User
- userId: String
- username: String
- password: String
- email: String
- firstName: String
- lastName: String
- address: String
- phoneNumber: String
- dateOfBirth: Date
- gender: String

+ createUser()
+ updateUser()
+ deleteUser()
+ getUserDetails()
+ authenticateUser()

Log In
- username: String
- password: String
- isLoggedIn: boolean

+ authenticate(username: String, password: String): boolean
+ logout(): void

View Booked Hotel
- bookedHotels: List<HotelBooking>

+ displayBookedHotels(userId: String): void
+ viewHotelDetails(bookingId: String): void

Package Booking
- bookingId: int
- userId: int
- packageId: int
- bookingDate: date

+bookPackage()
+viewBookedPackage()

View Booked Package
- packageId: String
- name: String
- price: double

+ viewPackageDetails(): String

Update User
- userId: String
- username: String
- password: String
- email: String
- firstName: String
- lastName: String
- address: String
- phoneNumber: String
- dateOfBirth: Date
- gender: String

- securityQuestions: List<String>

+ updateUserEmail(email: String): void
+ updateUserPassword(password: String): void
+ updateUserProfile(firstName: String, lastName: String, address: String, phoneNumber: String, dateOfBirth: Date, gender: String, profilePicture: Image): void
+ updateSecurityQuestions(questions: List<String>): void

User
-userId: int
-username: string
-password: string
-email: string

+login()
+logout()
+signup()
+updateProfile()
+deleteAccount()

Payment
-paymentId: int
-userId: int
-bookingId: int
-amount: float
-paymentDate: date

+makePayment()
+viewPaymentDetails()

Delete User
- userId: String
- username: String
- password: String

+ deleteUser(userId: String): void

Hotel Booking
- customerId: String
- name: String
- email: String
- hotelId: String
- name: String
- address: String
- roomsAvailable: int

+ checkAvailability(): int
+ bookRoom(customer: Customer, dates: Date): Booking
+ getHotelDetails(): String
+ makeBooking(hotel: Hotel, dates: Date): Booking
+ cancelBooking(bookingId: String): void
+ getCustomerDetails(): String

Feedback
-feedbackId: int
-userId: int
-packageId: int
-comment: string

+submitFeedback()
+viewFeedback()

View Hotel
-hotelId: int
-hotelName: string
-location: string

+viewHotelDetails()

Transportation
-transportation_id:int
-transportation_name: string
-transportation_tour_id: int

+addTransportation()
+editTransportation()
+deleteTransportation()
+searchTransportation()