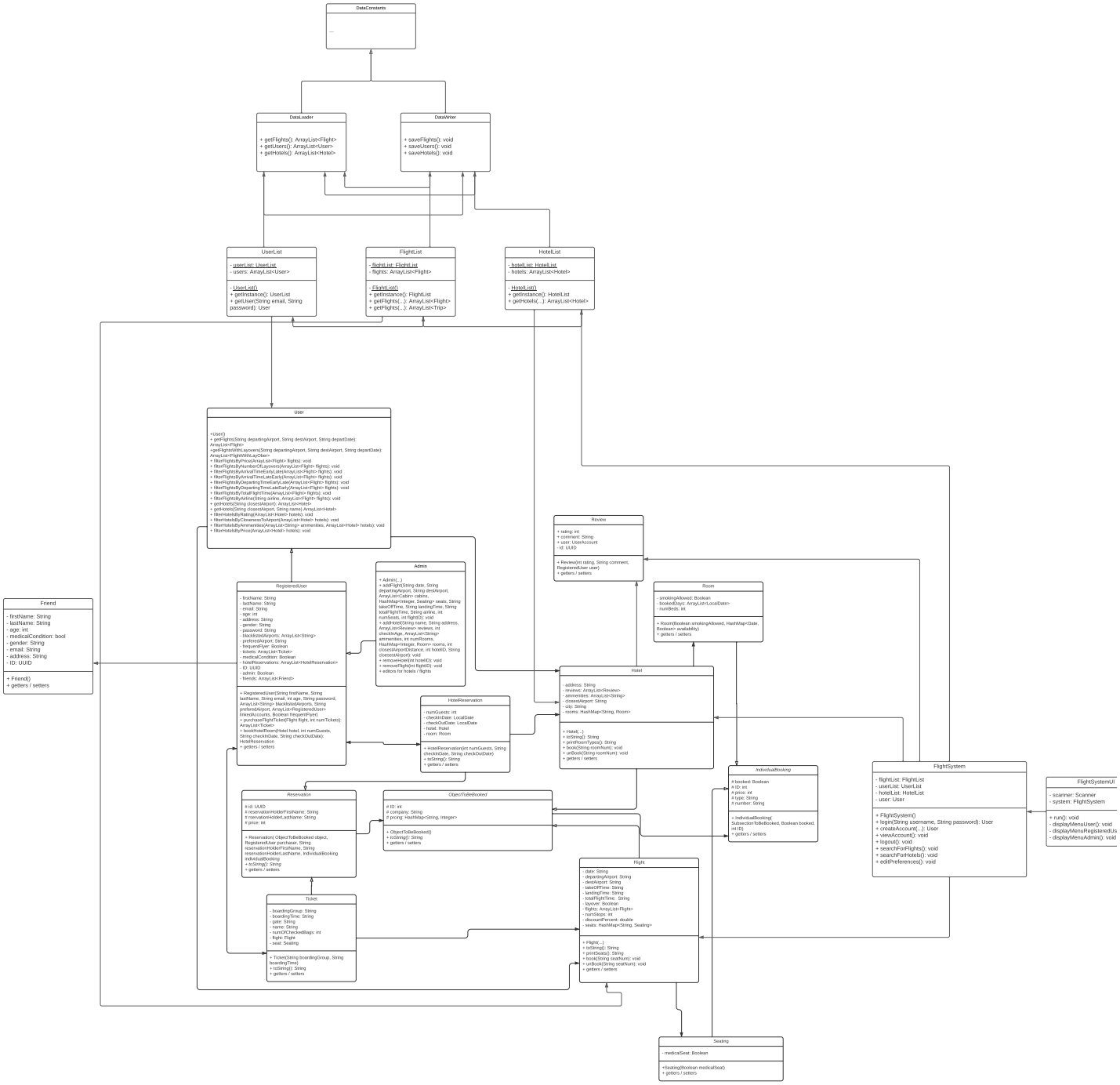
DataConstants
...
DataLoader
+ getFlights(): ArrayList<Flight>
+ getUsers(): ArrayList<User>
+ getHotels(): ArrayList<Hotel>
DataWriter
+ saveFlights(): void
+ saveUsers(): void
+ saveHotels(): void
UserList
- userList: UserList
- users: ArrayList<User>
- UserList()
+ getInstance(): UserList
+ getUser(String email, String password): User
FlightList
- flightList: FlightList
- flights: ArrayList<Flight>
- FlightList()
+ getInstance(): FlightList
+ getFlights(...): ArrayList<Flight>
+ getFlights(...): ArrayList<Trip>
HotelList
- hotelList: HotelList
- hotels: ArrayList<Hotel>
- HotelList()
+ getInstance(): HotelList
+ getHotels(...): ArrayList<Hotel>
User
+User()
+ getFlights(String departingAirport, String destAirport, String departDate): ArrayList<Flight>
+getFlightsWithLayovers(String departingAirport, String destAirport, String departDate): ArrayList<FlightWithLayOver>
+ filterFlightsByPrice(ArrayList<Flight> flights): void
+ filterFlightsByNumberOfLayovers(ArrayList<Flight> flights): void
+ filterFlightsByArrivalTimeEarlyLate(ArrayList<Flight> flights): void
+ filterFlightsByArrivalTimeLateEarly(ArrayList<Flight> flights): void
+ filterFlightsByDepartingTimeEarlyLate(ArrayList<Flight> flights): void
+ filterFlightsByDepartingTimeLateEarly(ArrayList<Flight> flights): void
+ filterFlightsByTotalFlightTime(ArrayList<Flight> flights): void
+ filterFlightsByAirline(String airline, ArrayList<Flight> flights): void
+ getHotels(String closestAirport): ArrayList<Hotel>
+ getHotels(String closestAirport, String name): ArrayList<Hotel>
+ filterHotelsByRating(ArrayList<Hotel> hotels): void
+ filterHotelsByCleannessToAirport(ArrayList<Hotel> hotels): void
+ filterHotelsByAmmenities(ArrayList<String> ammenities, ArrayList<Hotel> hotels): void
+ filterHotelsByPrice(ArrayList<Hotel> hotels): void
Review
+ rating: int
+ comment: String
+ user: UserAccount
- id: UUID
+ Review(int rating, String comment, RegisteredUser user)
+ getters / setters
Friend
- firstName: String
- lastName: String
- age: int
- medicalCondition: bool
- gender: String
- email: String
- address: String
- ID: UUID
+ Friend()
+ getters / setters
RegisteredUser
- firstName: String
- lastName: String
- email: String
- age: int
- address: String
- gender: String
- password: String
- blacklistedAirports: ArrayList<String>
- preferedAirport: String
- frequentFlyer: Boolean
- tickets: ArrayList<Ticket>
- medicalCondition: Boolean
- hotelReservations: ArrayList<HotelReservation>
- ID: UUID
- admin: Boolean
- friends: ArrayList<Friend>
+ RegisteredUser(String firstName, String lastName, String email, int age, String password, ArrayList<String> blacklistedAirports, String preferedAirport, ArrayList<RegisteredUser> linkedAccounts, Boolean frequentFlyer)
+ purchaseFlightTicket(Flight flight, int numTickets): ArrayList<Ticket>
+ bookHotelRoom(Hotel hotel, int numGuests, String checkInDate, String checkOutDate): HotelReservation
+ getters / setters
Admin
+ Admin(...)
+ addFlight(String date, String departingAirport, String destAirport, ArrayList<Cabin> cabins, HashMap<Integer, Seating> seats, String takeOffTime, String landingTime, String totalFlightTime, String airline, int numSeats, int flightID): void
+ addHotel(String name, String address, ArrayList<Review> reviews, int checkinAge, ArrayList<String> ammenities, int numRooms, HashMap<Integer, Room> rooms, int hotelID, String closestAirport, int hotelID, String closestAirport): void
+ removeHotel(int hotelID): void
+ removeFlight(int flightID): void
+ editors for hotels / flights
Room
- smokingAllowed: Boolean
- bookedDays: ArrayList<LocalDate>
- numBeds: int
+ Room(Boolean smokingAllowed, HashMap<Date, Boolean> availability)
+ getters / setters
Hotel
- address: String
- reviews: ArrayList<Review>
- ammenities: ArrayList<String>
- closestAirport: String
- city: String
- rooms: HashMap<String, Room>
+ Hotel(...)
+ toString(): String
+ printRoomTypes(): String
+ book(String roomNum): void
+ unBook(String roomNum): void
+ getters / setters
HotelReservation
- numGuests: int
- checkInDate: LocalDate
- checkOutDate: LocalDate
- hotel: Hotel
- room: Room
+ HotelReservation(int numGuests, String checkInDate, String checkOutDate)
+ toString(): String
+ getters / setters
IndividualBooking
booked: Boolean
ID: int
price: int
type: String
number: String
+ IndividualBooking(SubsectionToBeBooked, Boolean booked, int ID)
+ getters / setters
FlightSystem
- flightList: FlightList
- userList: UserList
- hotelList: HotelList
- user: User
+ FlightSystem()
+ login(String username, String password): User
+ createAccount(...): User
+ viewAccount(): void
+ logout(): void
+ searchForFlights(): void
+ searchForHotels(): void
+ editPreferences(): void
FlightSystemUI
- scanner: Scanner
- system: FlightSystem
+ run(): void
+ displayMenuUser(): void
+ displayMenuRegisteredUs
+ displayMenuAdmin(): void
Reservation
id: UUID
reservationHolderFirstName: String
reservationHolderLastName: String
price: int
+ Reservation(ObjectToBeBooked object, RegisteredUser purchaser, String reservationHolderFirstName, String reservationHolderLastName, IndividualBooking individualBooking)
+ toString(): String
+ getters / setters
ObjectToBeBooked
ID: int
company: String
pricing: HashMap<String, Integer>
+ ObjectToBeBooked()
+ toString(): String
+ getters / setters
Flight
- date: String
- departingAirport: String
- destAirport: String
- takeOffTime: String
- landingTime: String
- totalFlightTime: String
- layover: Boolean
- flights: ArrayList<Flight>
- numSteps: int
- discountPercent: double
- seats: HashMap<String, Seating>
+ Flight(...)
+ toString(): String
+ printSeats(): String
+ book(String seatNum): void
+ unBook(String seatNum): void
+ getters / setters
Ticket
- boardingGroup: String
- boardingTime: String
- gate: String
- name: String
- numOfCheckedBags: int
- flight: Flight
- seat: Seating
+ Ticket(String boardingGroup, String boardingTime)
+ toString(): String
+ getters / setters
Seating
- medicalSeat: Boolean
+Seating(Boolean medicalSeat)
+ getters / setters