





AirlineDriver

Instance Variables:
private List<Customer> customers;
private List<Airline> airlines;
private List<Review> reviews;
private List<Flight> flights;
private List<Ticket> tickets;

Responsibilities:
- Import data from file structure
- Manage the User Input
- Handle the manu system/navigation

Methods:
public AirlineDriver();
-retireves saved data and updates instance variables accordingly
public static void main(args String[]);
- handles user input, where the program is run

User implements Saveable

Instance Variables:
private String username;
private String password;

Responsibilities:
- Parent Class for Customer & Airline
- Saving User Data
- Look at all avaiable Flights

Methods:
public User(String username, String pass);
- creates a new user with the specified username and password
public void save();
- saves the User's information in .txt file in data/Customer or data/Airline

Flight implements Saveable

Instance Variables:
private Map<Integer, Ticket> seats;
private String date;
// format = "mmddyyy"
private String time;
// format = "hr:min"
private String startingLocation;
private String endingLocation;
private double cost;
private String[] layovers;
private int flightTime;
private Airline airline;
private int miles;

Responsibilities:
- Contains all information about a Flight
- Generates tickets for the flight
-

Methods:
public Flight();
- generates a new Flight
public save();
- from Saveable

Review implements Saveable

Instance Variables:
private String message;
private int rating;
//rating 0-5
private Airline airline;
private Ticket ticket;
private Customer customer;

Responsibilities:
- Hold information for a review including who its from, what Airline its for, rating and message

Methods:
public Review();
- generates a new Review
public save();
- from Saveable

Customer extends User implements Saveable

Instance Variables:
private List<Flight> flights;
private List<Review> reviews;
private int milePoints;

Responsibilities:
- Holds information about the Customer
- Add reviews
- Add Flights to bookedFlights
- Get Reviews
- Get Old Flights
- Update Booked Flights into Old Flights

Methods:
public Customer();
- super(); then creates a new Customer and adds it to the file system
public void bookFlight(Flight f);
- adds the booked flight
public save();
- from Saveable

Airline extends User implements Saveable

Instance Variables:
private String name;
private List<Flight> availableFlights;
private List<Flight> pastFlights;
private List<Review> reviews;

Responsibilities:
- Store/Display All Past Flights
- Store/Display All Current Flights
- Store/Display All Reviews
- Manage Airline Blacklist

Methods:
public Airline();
- super(); then creates a new Airline and adds it to the file system
public void bookFlight(Flight f);
- adds the booked flight
public save();
- from Saveable

Ticket implements Saveable

Instance Variables:
private Flight flight;
private int seat;
private double cost;
private boolean available;
private Airline airline;
private Customer customer;
//null if not purchased

Responsibilities:
- Holds all ticket information
- Updates customers milePoints when purchased
- Updates avaiability when purchased/canceled

Methods:
public Ticket();
- creates a new Ticket and adds it to the file system
public void updateMilePoints(Flight f);
- called whenever a Ticket is purchased or canceled, adds or subtracts the miles from the custommer's milePoints
public save();
- from Saveable

Saveable<>

Instance Variables:
N/A

Responsibilities:
- Allows for a Class to be saved into the file structure so that information is not lost each time the program is terminated

Methods:
public save();
- Unique for each Class, inside it will describe how the object will be saved into a text file