

Abstract	
<b>travel.Travel</b>	
SingleTravel, Itinerary	
Final arrival date and time Starting departure date and time Origin Destination Total cost Total travel time Format times into string representations	TimeFormat

Abstract	
<b>travel.SingleTravel</b>	
Travel, Identifiable	
Flight	
Unique ID (number)	

<b>travel.Flight</b>	
SingleTravel	
Airline Create string representation for files	

<b>database.TravelDatabase</b> IdentifiableMap	
Get travel by ID or origin Search travel by time, origin, destination Add travel information	SingleTravel

<b>database.MainDatabase</b>	
Map all TravelType to TravelDatabase Search travels by time, origin, destination Get travel information by ID or origin Give access to the UserDatabase by privilege Allow access to adding or modifying travel info Order search results (by time or cost)	UserDatabase TravelDatabase TravelType UserType Privileges Constants

<b>travel.Itinerary</b> Travel	
Sequence of trips Add a trip to the sequence Calculate total cost Calculate travel time	SingleTravel

Interface		Identifiable	
users.User			
		RegisteredUser	
Unique Identifier (Email or username) Privileges (Accessible information)		UserType	

Abstract	
users.RegisteredUser	
Client, Administrator	
Password (Encrypted) First names, last name Address Credit card number, expiry date Book Itinerary Remove booked Itinerary List booked Itineraries Create string representation for file	Itinerary TimeFormat

<div>RegisteredUser</div> <div>users.Client</div>	
Privileges (client)	UserType

<div>RegisteredUser</div> <div>users.Administrator</div>	
Privileges (admin)	UserType

<div>IdentifiableMap</div> <div>database.UserDatabase</div>	
Get user by Email Verify an entered Password for a registered user Register an Email and Password Access and edit any user's information	RegisteredUser SaveOperations

<div>Enum</div> <div>users.UserType</div> <div>LineParse</div>	
List privilege constants for each user subclass Create user subclass by privilege	Client Administrator Privileges

Enum	LineParse
<b>travel.TravelType</b>	
List all travel classes Create Travel subclasses by type	Flight

<b>driver.UserControl</b>	
Load data on start Log in with Email and Password Register a new User Save data on close Allow User to modify personal attributes Allow User to book or remove Itineraries Search databases for Itineraries by travel info Modify databases (if user has privileges) Get information from files for the databases	User RegisteredUser UserDatabase MainDatabase SaveOperations InputOperations Privileges UserType

<b>io.SaveOperations</b>	
Save all data in main database to a file Load a file's data to main database Encrypt and decrypt save files Encrypt passwords	MainDatabase

<b>io.InputOperations</b>	
Get travel information from file (input) Get client information from file (input)	MainDatabase RegisteredUser SingleTravel TravelType UserType

Enum <b>util.TimeFormat</b>	
List possible date and time formats Format strings to dates Get string representations from dates	

<b>util.Privileges</b>	
List privilege constants for accessing databases	

util.Constants	
List miscellaneous constants	

Enum <b>travel.TravelComparator</b>	
Order Travel by multiple fields Order in descending or ascending order	Travel

Interface <b>interfaces.LineParse&lt;T&gt;</b> TravelType, UserType	
Allows parsing of objects from a single line	

Interface	
<b>interfaces.Identifiable&lt;T&gt;</b>	
User,SingleTravel	
Uses a unique key identifier	

<b>database.IdentifiableMap&lt;K, V&gt;</b>	
TravelDatabase, UserDatabase	
Uses a unique key identifier to map K to V	V extends Identifiable

<b>driver.Starter</b>	
Starts the program Saves and loads data from files	UserControl SaveOperations



