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| Abstract |  |
| **travel.Travel**  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 |

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| Abstract | Travel, Identifiable |
| **travel.SingleTravel**  Flight | |
| Unique ID (number) |  |

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|  | SingleTravel |
| **travel.Flight** | |
| Airline  Create string representation for files |  |
|  | IdentifiableMap |
| **database.TravelDatabase** | |
| Get travel by ID or origin Search travel by time, origin, destination  Add travel information | SingleTravel |

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| **database.MainDatabase** | |
| 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 |

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|  | Travel |
| **travel.Itinerary** | |
| 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 |

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| 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 |

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|  | RegisteredUser |
| **users.Client** | |
| Privileges (client) | UserType |
|  | RegisteredUser |
| **users.Administrator** | |
| Privileges (admin) | UserType |

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|  | IdentifiableMap |
| **database.UserDatabase** | |
| 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 |

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| Enum | LineParse |
| **users.UserType** | |
| List privilege constants for each user subclass  Create user subclass by privilege | Client  Administrator  Privileges |

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| Enum | LineParse |
| **travel.TravelType** | |
| List all travel classes  Create Travel subclasses by type | Flight |

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| **driver.UserControl** | |
| 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 |

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| **io.SaveOperations** | |
| 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 |
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| **io.InputOperations** | |
| Get travel information from file (input)  Get client information from file (input) | MainDatabase  RegisteredUser  SingleTravel  TravelType  UserType |

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| Enum |  |
| **util.TimeFormat** | |
| List possible date and time formats  Format strings to dates  Get string representations from dates |  |

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| **util.Privileges** | |
| List privilege constants for accessing databases |  |

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| **util.Constants** | |
| List miscellaneous constants |  |

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| Enum |  |
| **travel.TravelComparator** | |
| Order Travel by multiple fields  Order in descending or ascending order | Travel |

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| Interface |  |
| **interfaces.LineParse<T>**  TravelType, UserType | |
| Allows parsing of objects from a single line |  |

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| Interface |  |
| **interfaces.Identifiable<T>**  User,SingleTravel | |
| Uses a unique key identifier |  |

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| **database.IdentifiableMap<K, V>**  TravelDatabase, UserDatabase | |
| Uses a unique key identifier to map K to V | V extends Identifiable |

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| **driver.Starter** | |
| Starts the program  Saves and loads data from files | UserControl  SaveOperations |