Administrator	User
 edit any Client's information (other than email) edit any Flight's information book an Itinerary for any Client 	UserClientFlightAdminActivityLoginActivity

	BookItineraryActivity		
•	on creation, display all of a selected Itinerary's information allow an Administrator to book a selected Itinerary for any Client allow a Client to book themselves a selected Itinerary do the booking with the click of a button	AdministratorClientDisplayltinerariesActivityItinerary	

Client	User
 keep track of personal and billing info edit personal and billing info (other than email) keep track of booked itineraries be able to book an Itinerary for itself 	UserClientManagerClientActivityBookItineraryActivity
	Administrator

ClientActivity

- create and keep track of a 'submit' and 'back' button
- on creation, display all of a Client's personal and billing information
- allow an Administrator to edit all of a Client's personal and billing information other than email
- allow a Client to edit their own personal and billing information other than email
- save changes and display a message when the 'submit' button is pressed
- go back to the main menu when 'back' is pressed

- Client
- Administrator
- MenuActivity
- ClientManager

ClientManager

- keep track of the file path where files are saved
- load Client information from a text or serialized file
- keep track of a HashMap of Client email to the corresponding Client
- save Client information to a serialized file

- Client
- ClientActivity

DisplayBookedItineraries

- on creation, display all of a given Client's booked Itineraries if an Administrator is signed in or the Client's own booked Itineraries if a Client is signed in, determined beforehand in MenuActivity
- Client
- ClientManager
- Itinerary
- MenuActivity

DisplayFlightsActivity		
 display all existing Flights display Flights matching previous search criteria 	FlightFlightManagerMenuActivitySearchFlightsActivityUser	

DisplayItinerariesActivity			
	ries matching search criteria ether to sort by cost or time	•	BookltineraryActivity Itinerary
sort Itineraries by cost or tallow a User to select an Iti		•	MenuActivity User

Flight	
 keep track of and edit departure and arrival dates and times keep track of and edit flight number, origin, destination, number of available seats and airline keep track of and edit the travel time and cost calculate the layover time between two dates compare flight numbers of two Flights 	ItineraryUser

	FlightActivity		
•	create and keep track of a 'submit' and 'back' button	•	Administrator
•	display a Flight's information	•	Flight
•	allow an Admin to edit any of the Flight's information	•	FlightManager
•	save changes to a file	•	MenuActivity

FlightManager		
 keep track of the file path where files are saved load Flight information from a text or serialized file keep track of a Graph of Flights save Flight information to a serialized file find matching Flights given origin, destination, and departure date 	FlightFlightActivityGraph	

	Graph	
keep track of a Map of Flightadd Flights and connecting p		FlightItinerary

Itinerary		
keep track of Flightscalculate cost	Flight User	
keep track of overall cost	• User	
calculate travel timekeep track of travel time		
compare itinerary timescompare itinerary costs		

LoginActivity

- create and keep track of a 'submit' button
- load credentials from file
- allow a User to submit an email and password
- authenticate credentials
- take an authenticated User to the main menu

- User
- MenuActivity

MenuActivity

- create buttons to other Activities and keep track of their clicks
- keep track of the email of the User who is logged in
- figure out whether an Administrator or Client is logged in
- if the User is an Administarator, show a button to UploadActivity
- send relevant information to corresponding selected Activities

- Administrator
- ClientActivity
- DisplayBookedItineraries
- Flight
- FlightManager
- Itinerary
- LoginActivity
- SearchFlightsActivity
- SearchItinsActivity
- UploadActivity
- User

SearchFlightsActivity

- on creation, create input fields
- allow the User to search Flights with matching date, origin, and destination
- DisplayFlightsActivity
- Flight
- FlightManager
- MenuActivity

	SearchItinsActivity		
•	allow a User to input a departure date, origin and destination search for and create Itineraries that match the input take the User to a DisplayItinsActivity	•	DisplayItinsActivity User Flight Itinerary MenuActivity

UploadActivity		
•	allow an Administrator to upload Flight and Client information save the uploaded information	FlightsUserMenuActivity

Abstract	User	Client, Admin
keep track of username and password		LoginActivityClientAdministrator