Flight Business Layer

* Get all destinations
* Get flights for a destination
* Get flights for a day, range of dates
* Check availability
* Book Flight
* Make payment
* Group booking

Hotel Business Layer

* Get all hotels by destinations
* Get room details
* Check room availability for a range of dates
* Book room
* Make payment
* Get Package details
* Group booking

Tour Business Layer (internal)

* Get itinerary details for destination
* Check availability on range of days
* Book the package

Service Layer –

1. Singleton session – for database query related retrieval operations / Availability
   1. Async Service (retrieval)
   2. Binding – basicHttp
   3. Authentication - anonymous
2. Session based with Transaction – Availability /Booking / Payment / Group Booking
   1. Encryption for payment
   2. Binding – wsHttp
   3. Authentication – Certificate + Message Level
   4. Exception handling – SoapFaultContract
   5. Message Construction – Document
3. Tour (internal) –
   1. Binding – tcp
   2. Transaction – 2-phase commit and internal database commit
4. Tour (external)
   1. Binding – as above

Entity

1. Flight Layer
   1. Flight
      1. Flight id
      2. Capacity
   2. Destinations
      1. City Name
   3. Route
      1. Route id
      2. Flight id
      3. Flight time
      4. Start City
      5. End City
   4. Flight Reservation
      1. Reservation id
      2. Passenger id
      3. Route id
      4. Date
   5. Passenger Details
      1. Passenger id
      2. Name
      3. Passport no
2. Hotel Layer
   1. Rooms Type
      1. Room Type
      2. Capacity
   2. Room
      1. Room no
      2. Room Type
   3. Room Reservation
      1. Room no
      2. Passenger id
      3. Start Date
      4. End Date
      5. No of people
   4. Passenger Details
      1. Same as above
3. Tour
   1. Packages
      1. Package Code
      2. Package Name
      3. Duration
      4. Capacity
      5. Hotel name
      6. Flight id
   2. Bookings
      1. Package Code
      2. Booking code
      3. List of Passengers
      4. Start Date
   3. Passengers
      1. Same as above
   4. Users
      1. Name
      2. Password
4. Flight bookings alone
5. Hotel bookings alone
6. Flight + hotel booking
7. Flight +hotel booking as tour package (assumes x reservations are free)
8. Flight +hotel booking as tour package (assumes x reservations are not free)
9. Payment security masked
10. Message transformation
11. Security – Message level
12. Security at Service level (least priority) - certificate
13. Async connection (wsDual)