Flight Booking System

Our system allows clients to search and checkout flight tickets. We have 2 sides: administrator and client.

List of Tables:

1. Cities
2. Companies
3. Flights
4. Orders
5. Passengers
6. Planes
7. Timezones
8. Users

If we are signed in as administrator we can add, update or delete information in all tables providing clients with appropriate data for searching available flights.

If we are clients and using this site first time we should register first and then as we login we can search flights and buy available tickets using checkout procedures.

get /flight?startIndex=0&size=5  
lists a set of specific flights   
  
get /flight/2  
(getting the detail of a specific flight)  
  
put /flight/2 + xml doc that provides details for the flight  
(updates the resource)  
  
post /flight + xml doc that provides details for the course  
(creates a new flight and returns an xml + generated url for that flight )

get /plane?startIndex=0&size=5  
lists a set of specific planes   
  
get /plane/5  
(getting the detail of a specific plane)  
  
put /plane/5 + xml doc that provides details for the plane  
(updates the resource)  
  
post /plane + xml doc that provides details for the plane  
(creates a new plane and returns an xml + generated url for that plane )

GET http://ticketsales.com/flight/  
                will return list of flights   
                <flights>  
                    <flight id="1">  
                        <flightName>KL349</flightName>

<arrivalDate>10.05.15</arrivalDate>

<arrivalTime>13:30</arrivalTime>

<cityFrom>Toronto</cityFrom>

<cityTo>Boston</cityTo>

<companyName>KLM</companyName>

<departureDate>10.05.15</departureDate>

<departureTime>12:00</departureTime>

<plane>Airbus A320</plane>

<price>200</price>                      
                    </flight>  
                </flights>

GET http://ticketsales.com/city/2  
                will return city with specified id

<cityID="2">

<cityname>Toronto</cityname>

<timezone>UTC -5</timezone>

</city>

DELETE http://ticketsales.com/city/2  
                will delete city with specified id

<cityID="2">

<cityname>Toronto</cityname>

<timezone>UTC -5</timezone>

</city>

POST http://ticketsales.com/city  
                will create new city

<cityID="10">

<cityname>Boston</cityname>

<timezone>UTC -5</timezone>

</city>

PUT http://ticketsales.com/flight/{1}  
                will update flight with specified id  
                <flights>  
                    <flight id="1">  
                        <flightName>KL349</flightName>

<arrivalDate>10.05.15</arrivalDate>

<arrivalTime>13:30</arrivalTime>

<cityFrom>Toronto</cityFrom>

<cityTo>Boston</cityTo>

<companyName>KLM</companyName>

<departureDate>10.05.15</departureDate>

<departureTime>12:00</departureTime>

<plane>Airbus A320</plane>

<price>200</price>                      
                    </flight>  
                </flights>

GET, PUT, DELETE, UPDATE operations will be performed with Cities, Companies, Flights, Users, Planes, Passengers, Orders tables (if appropriate) depending on which result we want to get.

In part B of assignment we try to implement service to get all flights ( with servlet) and get list of cities with JAX-RS.