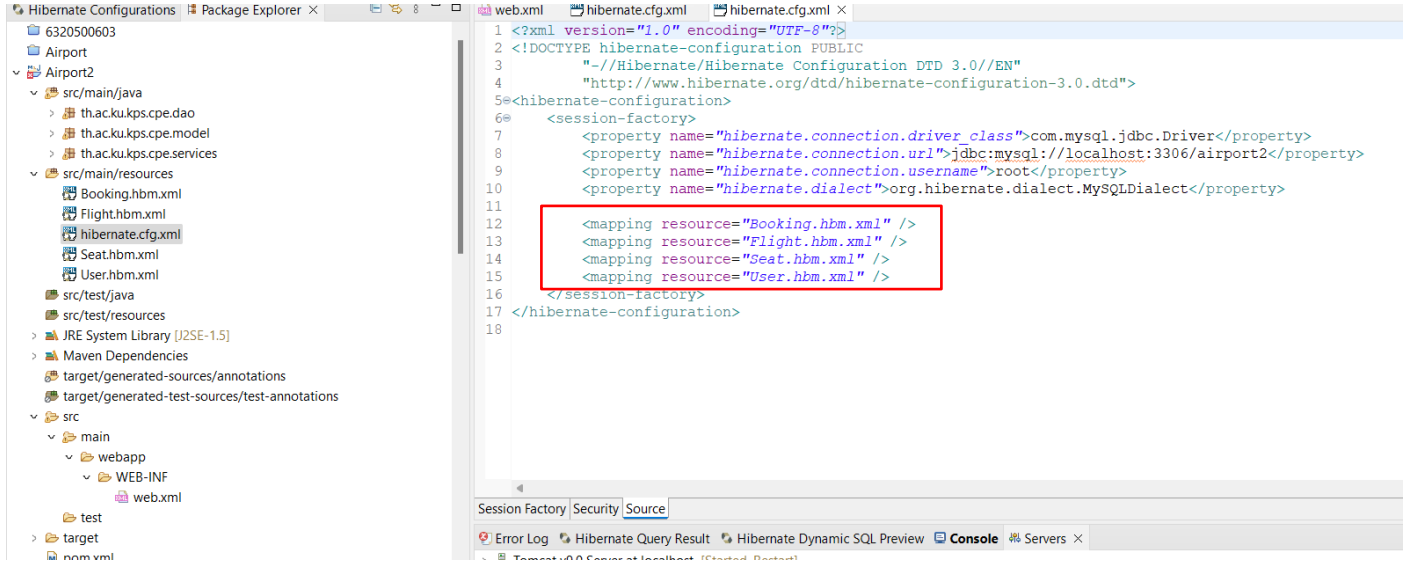


ดูที่ hibernate source และเพิ่ม



ไปที่ model เพิ่ม JsonIgnore ที่เป็น foreign key

```
1 package th.ac.ku.kps.cpe.model;
2 // Generated Mar 28, 2023, 10:13:40 AM by Hibernate Tools 6.1.3.Final
3
4 import java.sql.Date;
5
6 /**
7  * Booking generated by hbm2java
8  */
9 public class Booking implements java.io.Serializable {
10
11     private Integer bookingId;
12     @JsonIgnore
13     private Seat seat;
14     @JsonIgnore
15     private User user;
16     @JsonIgnore
17     private Flight flight;
18     private Date date;
19
20     public Booking() {
21     }
22
23     public Booking(Seat seat, User user, Flight flight, Date date) {
24         this.seat = seat;
25         this.user = user;
26         this.flight = flight;
27         this.date = date;
28     }
29 }
```

ตัวอย่าง query Booking

```
public List<Booking> getAllUser() {
    Session session = SessionUtil.getSession();
    Query query = session.createQuery("from Booking");
    ArrayList<Booking> booking = (ArrayList<Booking>) query.list();
    session.close();
    return booking;
}

public Booking getBookingById(int bookingId) {
    Session session = SessionUtil.getSession();
    String hql = "from Booking where bookingId = :bookingId";
    Query query = session.createQuery(hql).setParameter("bookingId", bookingId);
    List<Booking> booking = (List<Booking>) query.list();
    session.close();
    return booking.get(0);
}

public List<Booking> getAllBookingByUserId(int userId) {
    Session session = SessionUtil.getSession();
    String hql = "from Booking where userId = :userId";
    Query query = session.createQuery(hql).setParameter("userId", userId);
    List<Booking> bookings = (List<Booking>) query.list();
    session.close();
    return bookings;
}

public void addBooking(Booking booking) {
    Session session = SessionUtil.getSession();
    Transaction tx = session.beginTransaction();
    //tx.begin();
    session.save(booking);
    tx.commit();
    session.close();
}

public void update(Booking booking) {
    Session session = SessionUtil.getSession();
    Transaction tx = session.beginTransaction();
    session.update(booking);
    tx.commit();
    session.close();
}

public void delete(Booking booking) {
    Session session = SessionUtil.getSession();
    Transaction tx = session.beginTransaction();
    session.delete(booking);
    tx.commit();
    session.close();
}
```

BookingService

```
@Path("services")
public class BookingServices {

    BookingDAO bookingDAO = new BookingDAO();
    UserDAO userDAO = new UserDAO();
    FlightDAO flightDAO = new FlightDAO();
    SeatDAO seatDAO = new SeatDAO();
```

GET

```
@GET
@Path("/bookings")
@Produces(MediaType.APPLICATION_JSON)
public String getAllBooking() throws JsonProcessingException{
    ObjectMapper obj = new ObjectMapper();
    ArrayList<Booking> booking = (ArrayList<Booking>) bookingDAO.getAllUser();

    return obj.writeValueAsString(booking);
}

@GET
@Path("/bookings/{bookingId}")
@Produces(MediaType.APPLICATION_JSON)
public String getUserById(@PathParam("bookingId") int bookingId) throws JsonProcessingException{
    ObjectMapper obj = new ObjectMapper();
    Booking booking = bookingDAO.getBookingById(bookingId);

    return obj.writeValueAsString(booking);
}

@GET
@Path("/users/{userId}/bookings")
@Produces(MediaType.APPLICATION_JSON)
public String getAllBookingByUserId(@PathParam("userId")int userId) throws JsonProcessingException {
    ArrayList<Booking> bookings = (ArrayList<Booking>) bookingDAO.getAllBookingByUserId(userId);
    ObjectMapper obj = new ObjectMapper();
    return obj.writeValueAsString(bookings);
}
```

POST

```
@POST
@Path("/bookings/create")
@Consumes(MediaType.APPLICATION_JSON)
public Response addBooking(@QueryParam("userId") int userId, @QueryParam("flightId") int flightId, @QueryParam("seatId") int seatId)
    throws JsonMappingException, JsonProcessingException {

    User user = userDao.getUserById(userId);
    Flight flight = flightDAO.getFlightById(flightId);
    Seat seat = seatDAO.getSeatById(seatId);
    long millis = System.currentTimeMillis();

    bookingDAO.addBooking(new Booking(seat, user, flight, new Date(millis)));

    return Response.status(201).entity(" create successfully").build();
}
```

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://localhost:8080/Airport2/rest/services/bookings/create?userId=3&flightId=2&seatId=53
- Params:** Query Params table with 3 entries:

Key	Value	Description
userId	3	
flightId	2	
seatId	53	
- Body:** Pretty view showing "1 | create successfully"
- Status:** 201 Created, 51 ms, 175 B
- Buttons:** Send, Bulk Edit, Save as Example, etc.

PUT

```
@PUT
@Path("/bookings/update/{bookingId}")
@Consumes(MediaType.APPLICATION_JSON)
public Response updateBooking(@QueryParam("userId") int userId, @QueryParam("flightId") int flightId,
    @QueryParam("seatId") int seatId, @PathParam("bookingId") int bookingId) throws JsonMappingException, JsonProcessingEx
    Booking booking = bookingDAO.getBookingById(bookingId);
    User user = userDao.getUserById(userId);
    Flight flight = flightDAO.getFlightById(flightId);
    Seat seat = seatDAO.getSeatById(seatId);
    booking.setFlight(flight);
    booking.setSeat(seat);
    booking.setUser(user);
    bookingDAO.update(booking);

    return Response.status(201).entity(" update successfully").build();
}
```

The screenshot shows a REST client interface with the following details:

- Method:** PUT
- URL:** http://localhost:8080/Airport2/rest/services/bookings/update/6?userId=2&flightId=2&seatId=53
- Params:** Query Params table with 3 entries:

Key	Value	Description
userId	2	
flightId	2	
seatId	53	
- Body:** Pretty view showing "1 | update successfully"
- Status:** 201 Created, 19 ms, 175 B
- Buttons:** Send, Bulk Edit, Save as Example, etc.

DELETE

```
@DELETE
@Path("/bookings/delete/{bookingId}")
@Consumes(MediaType.APPLICATION_JSON)
public Response deleteUser(@PathParam("bookingId")int bookingId) {

    Booking booking = bookingDAO.getBookingById(bookingId);
    bookingDAO.delete(booking);

    return Response.status(201).entity(" delete successfully").build();
}
```

ตัวอย่าง query User

```
public List<User> getAllUser() {
    Session session = SessionUtil.getSession();
    Query query = session.createQuery("from User");
    ArrayList<User> users = (ArrayList<User>) query.list();
    session.close();
    return users;
}

public User getUserById(int userId) {
    Session session = SessionUtil.getSession();
    String hql = "from User where userId = :userId";
    Query query = session.createQuery(hql).setParameter("userId", userId);
    List<User> users = (List<User>) query.list();
    session.close();
    return users.get(0);
}

public User getUserByUsername(String username) {
    Session session = SessionUtil.getSession();
    String hql = "from User where username = :username";
    Query query = session.createQuery(hql).setParameter("username", username);
    List<User> users = (List<User>) query.list();
    session.close();
    return users.get(0);
}

public void addUser(User user) {
    Session session = SessionUtil.getSession();
    Transaction tx = session.beginTransaction();
    //tx.begin();
    session.save(user);
    tx.commit();
    session.close();
}

public void update(User user) {
    Session session = SessionUtil.getSession();
    Transaction tx = session.beginTransaction();
    session.update(user);
    tx.commit();
    session.close();
}

public void delete(User user) {
    Session session = SessionUtil.getSession();
    Transaction tx = session.beginTransaction();
    session.delete(user);
    tx.commit();
    session.close();
}
```



```

1 package th.ac.ku.kps.cpe.services;
2
3 import java.io.IOException;
4 import java.util.ArrayList;
5
6 import javax.ws.rs.Consumes;
7 import javax.ws.rs.DELETE;
8 import javax.ws.rs.GET;
9 import javax.ws.rs.POST;
10 import javax.ws.rs.PUT;
11 import javax.ws.rs.Path;
12 import javax.ws.rs.PathParam;
13 import javax.ws.rs.Produces;
14 import javax.ws.rs.core.MediaType;
15 import javax.ws.rs.core.Response;
16
17 import com.fasterxml.jackson.core.JsonProcessingException;
18 import com.fasterxml.jackson.databind.JsonMappingException;
19 import com.fasterxml.jackson.databind.ObjectMapper;
20
21
22 import th.ac.ku.kps.cpe.dao.UserDAO;
23 import th.ac.ku.kps.cpe.model.User;

```

```

    @Path("services")
    public class UserService {

```

```

        UserDAO userDAO = new UserDAO();

```

```

        @GET
        @Path("/users")
        @Produces(MediaType.APPLICATION_JSON)
        public String getAllUsers() throws JsonProcessingException{
            ObjectMapper obj = new ObjectMapper();
            ArrayList<User> users = (ArrayList<User>) userDAO.getAllUser();
            for(User user : users) {
                System.out.println(user.getName());
            }
            return obj.writeValueAsString(users);
        }

```

```

//findById

```

```

@GET
@Path("/users/{userId}")
@Produces(MediaType.APPLICATION_JSON)
public String getUserById(@PathParam("userId") int userId) throws JsonProcessingException{
    ObjectMapper obj = new ObjectMapper();
    User user = userDAO.getUserById(userId);

    return obj.writeValueAsString(user);
}

```

```

@GET
@Path("/users/username/{username}")
@Produces(MediaType.APPLICATION_JSON)
public String getUserByUsername(@PathParam("username") String username) throws JsonProcessingException{
    ObjectMapper obj = new ObjectMapper();
    User user = userDAO.getUserByUsername(username);

    return obj.writeValueAsString(user);
}

```

POST

```
@POST
@Path("/users/create")
@Consumes(MediaType.APPLICATION_JSON)
public Response addUser(String value) throws IOException {

    ObjectMapper obj = new ObjectMapper();
    User user = obj.readValue(value, User.class);
    userDao.addUser(user);
    return Response.status(201).entity("create successfully").build();
}
```

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://localhost:8080/Airport2/rest/services/users/create
- Body:** A JSON object:

```
{
  "username": "iceeee",
  "password": "111",
  "name": "phat8"
}
```
- Response:** 201 Created, 97 ms, 174 B. The response body is "create successfully".

PUT

```
@PUT
@Path("/users/update/{userId}")
@Consumes(MediaType.APPLICATION_JSON)
public Response updateUser(String value, @PathParam("userId") int userId) throws JsonMappingException, JsonProcessingException {
    ObjectMapper obj = new ObjectMapper();
    User user = obj.readValue(value, User.class);
    User u = userDao.getUserById(userId);

    u.setName(user.getName());
    u.setPassword(user.getPassword());
    u.setUsername(user.getUsername());
    userDao.update(u);

    return Response.status(201).entity(" update successfully").build();
}
```

The screenshot shows a REST client interface with the following details:

- Method:** PUT
- URL:** http://localhost:8080/Airport2/rest/services/users/update/4
- Body:** A JSON object:

```
{
  "username": "icePhat",
  "password": "111",
  "name": "phat8"
}
```
- Response:** 201 Created, 20 ms, 175 B. The response body is "update successfully".

```
@DELETE
@Path("/users/delete/{userId}")
@Consumes(MediaType.APPLICATION_JSON)
public Response deleteUser(@PathParam("userId") int userId) {

    User user = userDAO.getUserById(userId);
    userDAO.delete(user);

    return Response.status(201).entity(" delete successfully").build();
}
```