

- ▼ test\_final
  - > Deployment Descriptor: test\_final
  - > JAX-WS Web Services
  - ▼ Java Resources
    - ▼ src/main/java
      - ▼ controller
        - > ApplicationConfig.java
        - > BookService.java
        - > hello.java
      - ▼ DAO
        - > BookDAO.java
        - > SessionUtil.java
      - > model
      - > Book.hbm.xml
      - > BookStudent.hbm.xml
      - > hibernate.cfg.xml
      - > Student.hbm.xml
    - > src/main/resources
    - > src/test/java
    - > src/test/resources
    - > Libraries
  - > Deployed Resources
  - ▼ src
    - ▼ main
      - > java
      - > resources
    - ▼ wehann

```

1 package DAO;
2 import org.hibernate.Criteria;
3 import javax.persistence.criteria.CriteriaBuilder;
4 import javax.persistence.criteria.CriteriaQuery;
5 import javax.persistence.criteria.Root;
6 import java.util.ArrayList;
7 import java.util.List;
8
9 import org.hibernate.Query;
10 import org.hibernate.Session;
11 import org.hibernate.SessionFactory;
12 import org.hibernate.Transaction;
13 import org.hibernate.TransactionException;
14
15
16 import model.Book;
17
18 public class BookDAO {
19
20     public ArrayList<Book> getAllBooks() {
21         Session session = SessionUtil.getSession();
22         Query query = session.createQuery("from Book");
23         ArrayList<Book> books = (ArrayList<Book>) query.list();
24
25         System.out.println("Total Books: " + books.size());
26         for (Book book : books) {
27             System.out.println("Book ID: " + book.getIdBook() + ", Name: " + book.getName());
28         }
29         session.close();
30         return books;
31     }
32
33     public int addBook(Book b) {
34         try {
35             System.out.println("Saving Book: " + b.getName());
36             Session session = SessionUtil.getSession();
37             Transaction tx = session.beginTransaction();
38
39             session.save(b);
40             tx.commit();
41             System.out.println("Saving Book: " + b.getName());
42             session.close();
43

```

```

1 package controller;
2
3 import java.io.IOException;
4
5 import java.util.ArrayList;
6 import java.util.List;
7
8 import javax.ws.rs.ApplicationPath;
9 import javax.ws.rs.Consumes;
10 import javax.ws.rs.DELETE;
11 import javax.ws.rs.GET;
12 import javax.ws.rs.POST;
13 import javax.ws.rs.PUT;
14 import javax.ws.rs.Path;
15 import javax.ws.rs.PathParam;
16 import javax.ws.rs.Produces;
17 import javax.ws.rs.core.Application;
18 import javax.ws.rs.core.MediaType;
19 import javax.ws.rs.core.Response;
20
21 import model.Book;
22 import DAO.BookDAO;
23
24
25 @ApplicationPath("/eiei")
26 @Path("/services")
27 public class BookService extends Application {
28
29     BookDAO bookDao = new BookDAO();

```

```

28
29 BookDAO bookDao = new BookDAO();
30
31 @GET
32 @Path("/books")
33 @Produces({MediaType.APPLICATION_JSON + ";charset=UTF-8"})
34 public Response getBooks() {
35     try {
36         List<Book> books = bookDao.getAllBooks(); // ✓ ดึงข้อมูลจาก DAO
37
38         // ✓ Debug Log เพื่อตรวจสอบข้อมูลก่อนส่งออก
39         System.out.println("Sending JSON Response: " + books);
40
41         if (books == null || books.isEmpty()) {
42             return Response.status(Response.Status.NOT_FOUND)
43                 .entity("No books found")
44                 .build();
45         }
46
47         return Response.ok().entity(books).build(); // ✓ ส่งข้อมูลเป็น JSON
48     } catch (Exception e) {
49         e.printStackTrace(); // ✓ แสดง Error ใน Console
50         return Response.status(Response.Status.INTERNAL_SERVER_ERROR)
51             .entity("Error retrieving books: " + e.getMessage())
52             .build();
53     }
54 }
55
56
57 @GET
58 @Path("/test")
59 @Produces(MediaType.TEXT_PLAIN)
60 public String testEndpoint() {
61     return "test";
62 }

```

```

2
3
4
5 @POST
6 @Path("/books")
7 @Consumes(MediaType.APPLICATION_JSON)
8 public Response createCustomer(Book book) throws IOException {
9     int i = bookDao.addBook(book);
10    if (i == 1)
11        return Response.status(201).entity(" create successfully").build();
12    else
13        return Response.status(201).entity(" create fail").build();
14 }
15
16 @PUT
17 @Path("/books/{param}")
18 @Produces(MediaType.APPLICATION_JSON)
19 public Book updateCustomer(@PathParam("param") Integer id , Book book)
20 {
21     Book newbook = bookDao.updateBook(book, id);
22     return newbook;
23 }
24
25 //
26 @DELETE
27 @Path("/books/{param}")
28 @Produces(MediaType.APPLICATION_JSON)
29 public Book deleteCustomer(@PathParam("param") Integer id)
30 {
31     Book books = new Book();
32
33     books = bookDao.deleteBook(id);
34     return books;
35 }
36
37
38

```

```

1 @GET
2 @Path("/BooksName/{param}")
3 @Produces(MediaType.APPLICATION_JSON)
4 public Book getCustomerByname(@PathParam("param") String name ){
5     return bookDao.getBookByName(name);
6 }
7
8 @GET
9 @Path("/BooksId/{param}")
10 @Produces(MediaType.APPLICATION_JSON)
11 public Book getCustomerByname(@PathParam("param") Integer id ){
12     return bookDao.getBookById(id);
13 }

```

```

33 public int addBook(Book b) {
34     try {
35         System.out.println("Saving Book: " + b.getName());
36         Session session = SessionUtil.getSession();
37         Transaction tx = session.beginTransaction();
38
39         session.save(b);
40         tx.commit();
41         System.out.println("Saving Book: " + b.getName());
42         session.close();
43
44     } catch (TransactionException e) {
45         e.printStackTrace();
46         return 0;
47     }
48     return 1;
49 }
50
51 public Book findCustomer(String userName) {
52     Session session = SessionUtil.getSession();
53     Criteria cr = (Criteria) session.createQuery("from Book where name="+userName);
54     return (Book) cr.list().get(0);
55 }
56
57 public Book updateBook(Book book, Integer id) {
58     Session session = SessionUtil.getSession();
59     Transaction tx = session.beginTransaction();
60     List<Book> booklist = getAllBooks();
61     for (Book b : booklist) {
62         if (b.getIdBook() == id) {
63             b.setIdBook(id);
64             b.setName(book.getName());
65             session.update(b);
66             tx.commit();
67
68             session.close();
69
70             return b;
71         }

```



```

27 public Book getBookByName(String name) {
28     Session session = SessionUtil.getSession();
29     Transaction tx = session.beginTransaction();
30     List<Book> booklist = getAllBooks();
31     for (Book b : booklist) {
32         if (b.getName().equals(name))
33         {
34             tx.commit();
35             session.close();
36
37             return b;
38         }
39     }
40     tx.commit();
41     session.close();
42     return null;
43 }

```

```

15 public Book getBookById(Integer id) {
16     Session session = SessionUtil.getSession();
17     Transaction tx = session.beginTransaction();
18     List<Book> booklist = getAllBooks();
19     for (Book b : booklist) {
20         if (b.getIdBook() == id)
21         {
22             tx.commit();
23             session.close();
24
25             return b;
26         }
27     }
28     tx.commit();
29     session.close();
30     return null;
31 }

```

```

57 public Book updateBook(Book book, Integer id) {
58     Session session = SessionUtil.getSession();
59     Transaction tx = session.beginTransaction();
60     List<Book> booklist = getAllBooks();
61     for (Book b : booklist) {
62         if (b.getIdBook() == id) {
63             b.setIdBook(id);
64             b.setName(book.getName());
65             session.update(b);
66             tx.commit();
67
68             session.close();
69
70             return b;
71         }
72     }
73     session.close();
74     return null;
75 }
76
77
78
79 public Book deleteBook(Integer id) {
80     Session session = SessionUtil.getSession();
81     Transaction tx = session.beginTransaction();
82     List<Book> booklist = getAllBooks();
83     for (Book b : booklist) {
84         if (b.getIdBook() == id) {
85
86             session.delete(b);
87             tx.commit();
88
89             session.close();
90
91             return b;
92         }
93     }
94     session.close();
95     return null;
96 }

```

```
1 package model;
2 // Generated Mar 20, 2025, 3:27:53 PM by Hibernate Tools 5.5.9.Final
3
4+ import java.util.HashSet;
10
11- /**
12  * Book generated by hbm2java
13  */
14 @XmlRootElement
15 @JsonIgnoreProperties({"bookStudents"})
16 public class Book implements java.io.Serializable {
17
18     private Integer idBook;
19     private String name;
20     private Set bookStudents = new HashSet(0);
21
22- public Book() {
23     }
24
25- public Book(String name) {
26     this.name = name;
27     }
28
29- public Book(String name, Set bookStudents) {
30     this.name = name;
31     this.bookStudents = bookStudents;
32     }
33
34- public Integer getIdBook() {
35     return this.idBook;
36     }
37
38- public void setIdBook(Integer idBook) {
39     this.idBook = idBook;
40     }
41
42- public String getName() {
43     return this.name;
44     }
45
46- public void setName(String name) {
47     this.name = name;
48     }
```