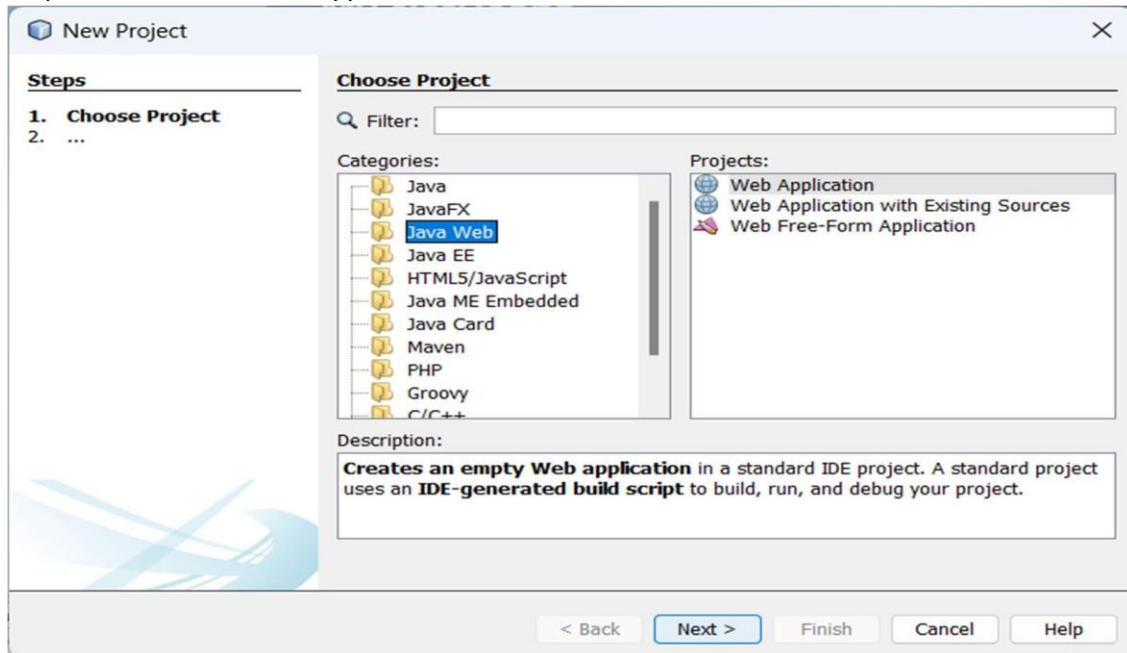**Roll no:** 18
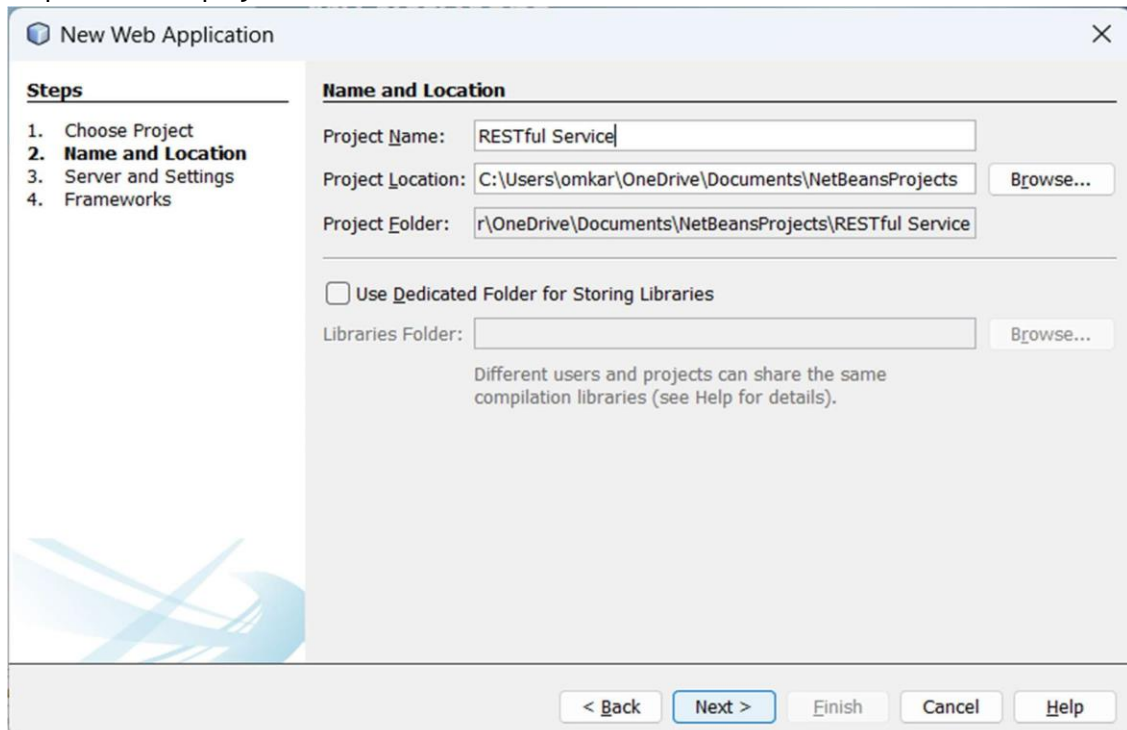
Practical 3 - Create RESTful Web service:

Aim: Define a RESTful web service that accepts the details to be stored in a database and performs CRUD operation.
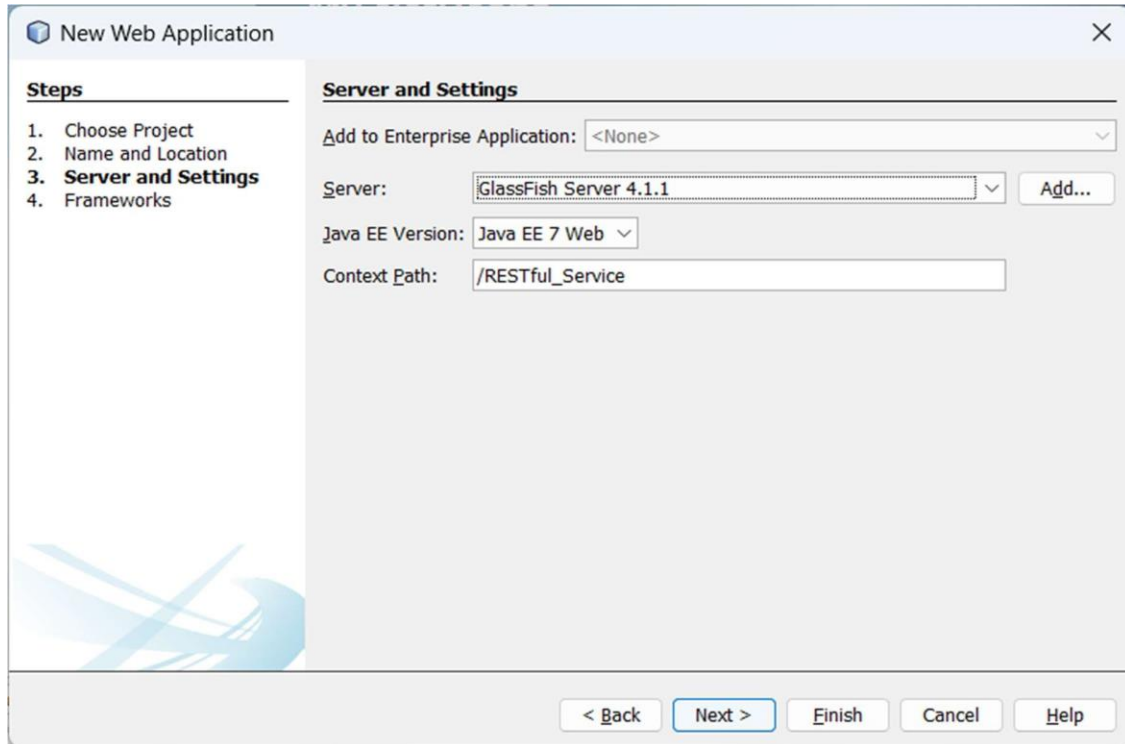
Steps:

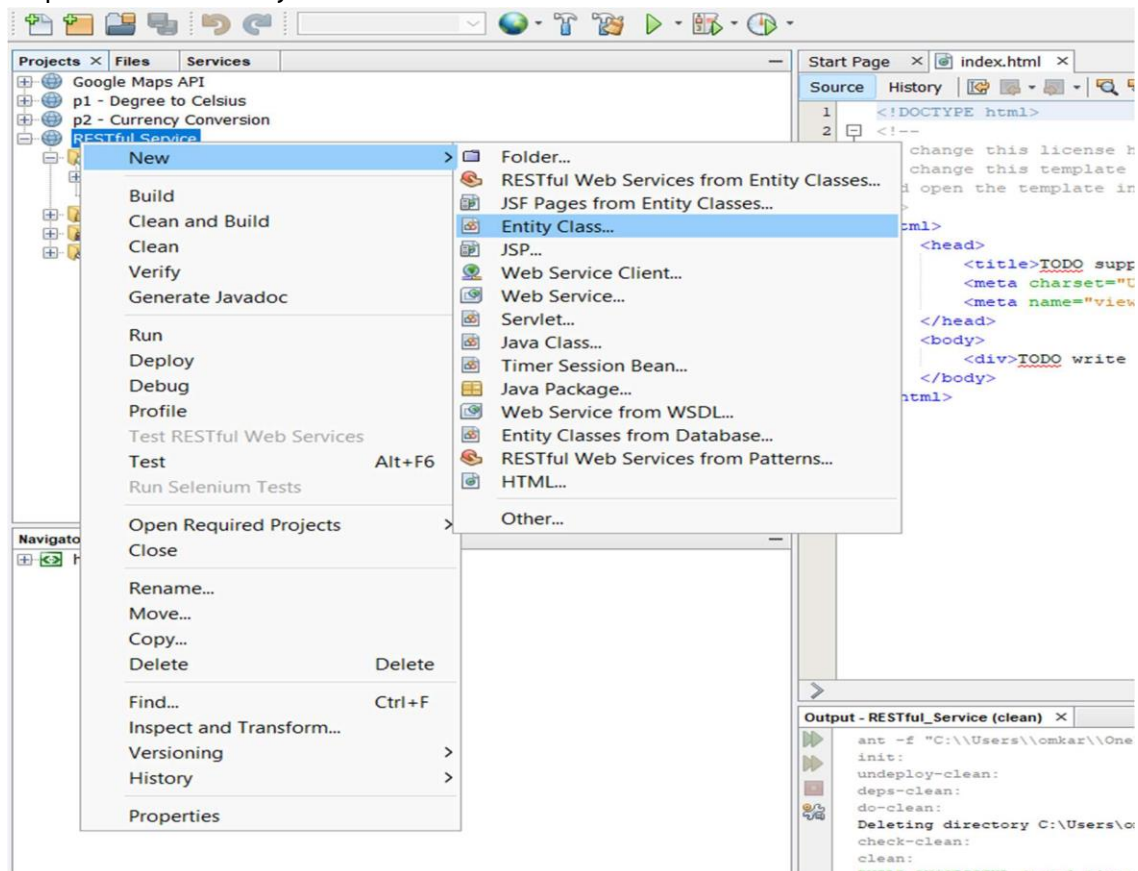Step 1: Create a new web application in Java net beans and name its RESTful Service.

Step 2: Create a project name.

Step 3: Click on next.

Step 4: Create an entity class.

Step 5: Insert code after set id property.

Step 6: Highlighted text below in the image will be generated.

```
public int hashCode() {
    int hash = 0;
    hash += (id != null ? id.hashCode() : 0);
    return hash;
}

private String sname;

/**
 * Get the value of sname
 *
 * @return the value of sname
 */
public String getSname() {
    return sname;
}

/**
 * Set the value of sname
 *
 * @param sname new value of sname
 */
public void setSname(String sname) {
    this.sname = sname;
}
```
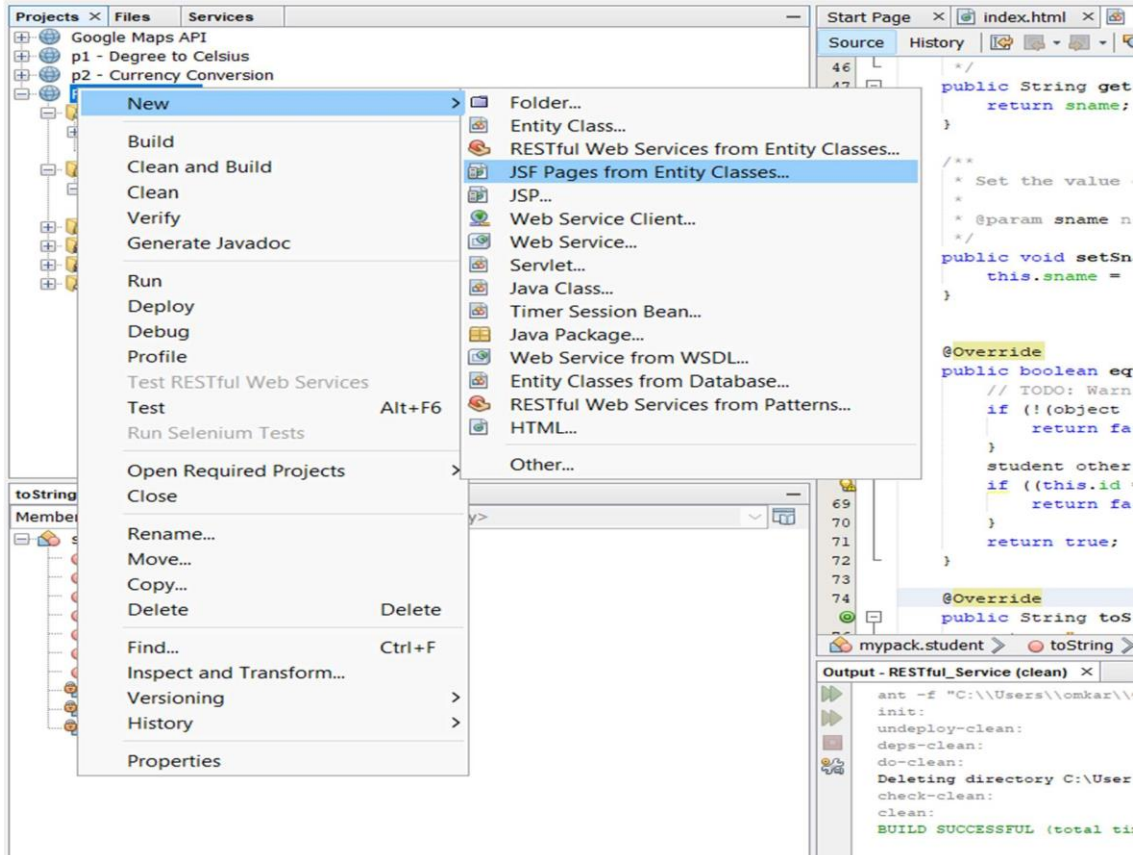
Step 7: Add JSF pages from the entity class.

New JSF Pages from Entity Classes

Steps

1. Choose File Type
2. **Entity Classes**
3. Generate JSF Pages and Classes
4. JavaServer Faces Configuration

Entity Classes

Available Entity Classes:

Selected Entity Classes:

mypack.student

Add >

< Remove

Add All >>

<< Remove All

☑ Include Referenced Classes

< Back   Next >   Finish   Cancel   Help

New JSF Pages from Entity Classes

Steps

1. Choose File Type
2. Entity Classes
3. **Generate JSF Pages and Classes**
4. JavaServer Faces Configuration

Generate JSF Pages and Classes

Specify the package of existing or new EJBs and the package of JSF classes.

Project: RESTful Service
Location: Source Packages
Session Bean Package: mypack
JSF Classes Package: mypack

Specify the location of new JSF pages.

JSF Pages Folder: [   ] Browse...
Localization Bundle Name: /Bundle
☐ Override existing files

Choose Templates: Standard JavaServer Faces   Customize Template

< Back   Next >   Finish   Cancel   Help

New JSF Pages from Entity Classes

Steps

1. Choose File Type
2. Entity Classes
3. Generate JSF Pages and Classes
4. **JavaServer Faces Configuration**

JavaServer Faces Configuration

Specify JavaServer Faces configuration and library information.

| Libraries | Configuration | Components |

⦿ Server Library: JSF 2.2
◯ Registered Libraries: JSF 2.2
◯ Create New Library
    JSF Folder or JAR: [   ] Browse...
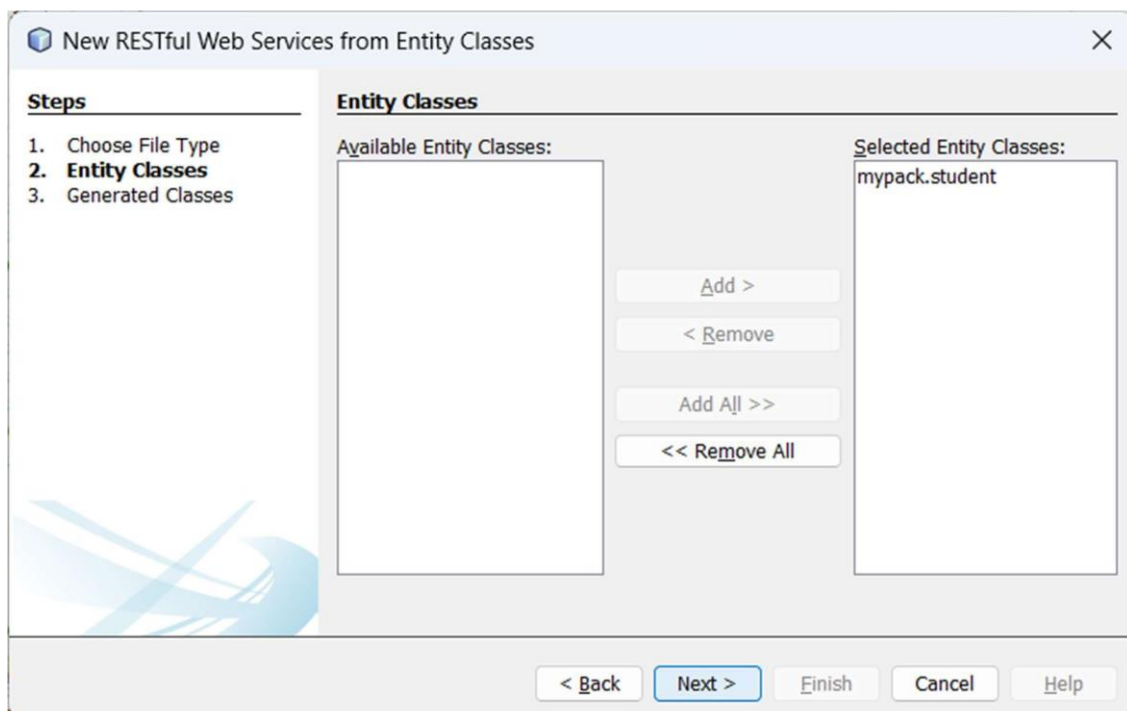   Library Name: [   ]

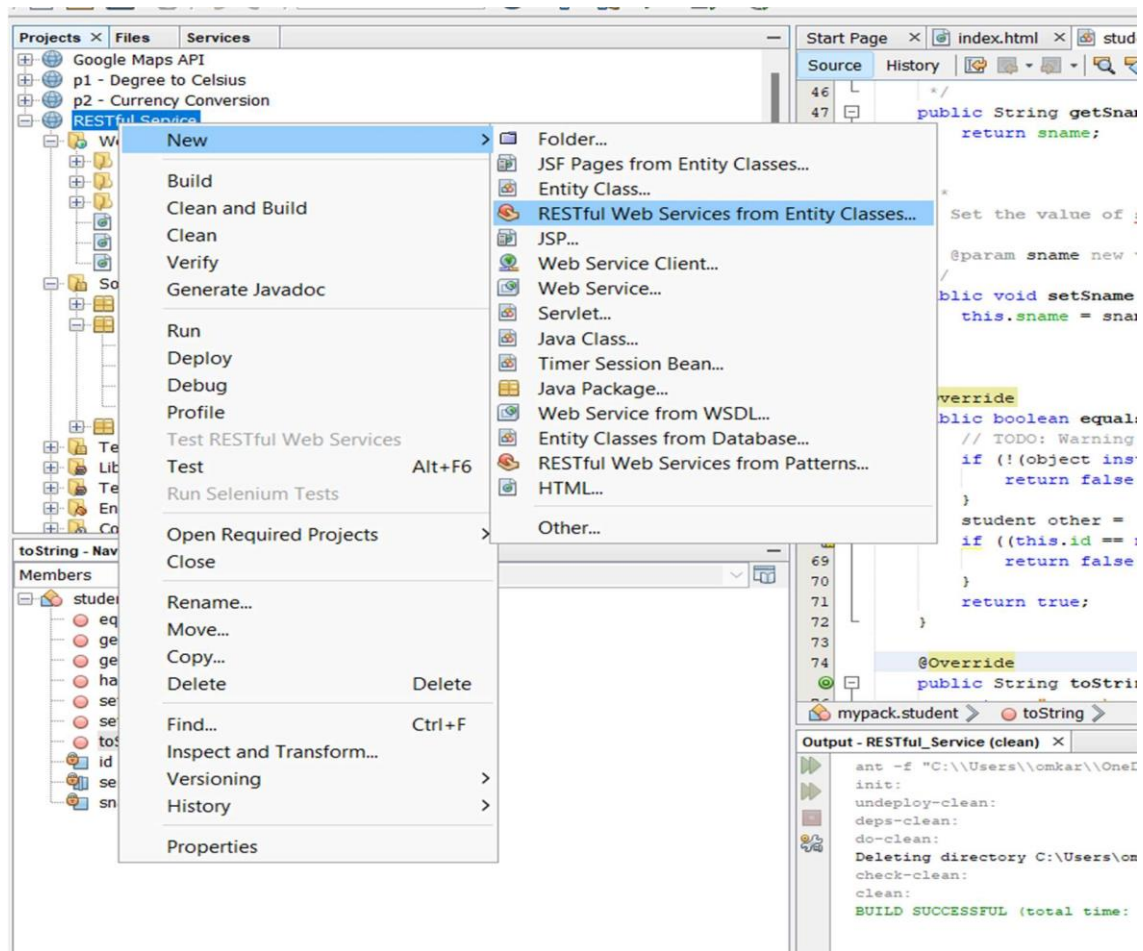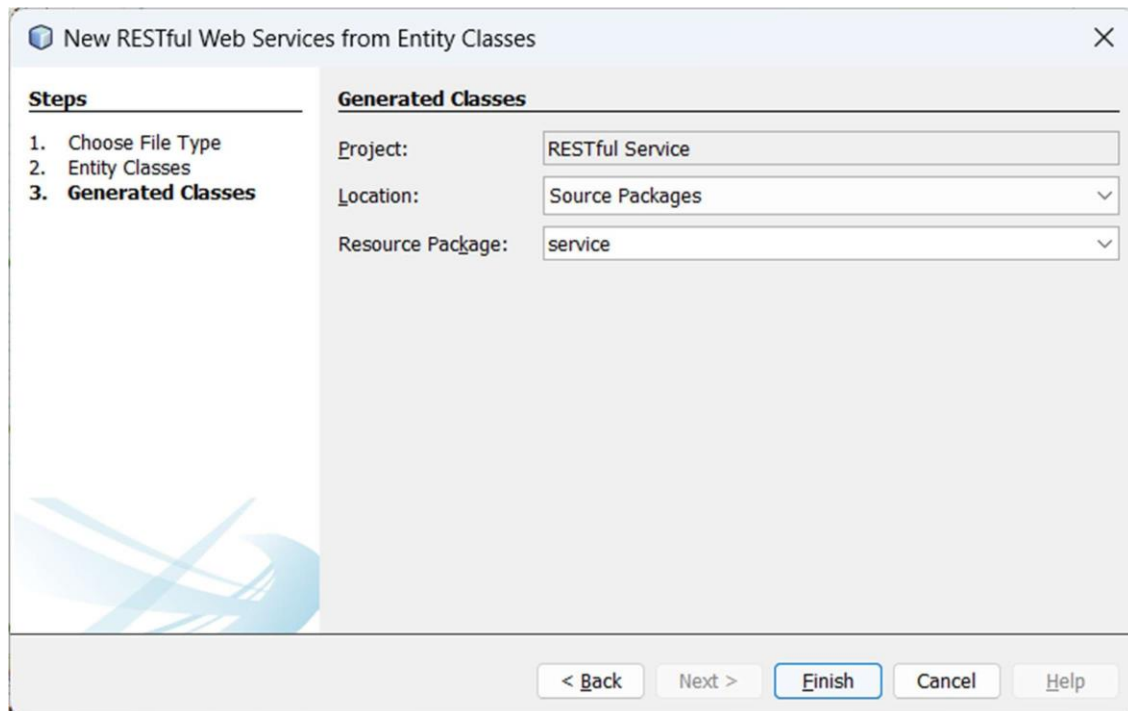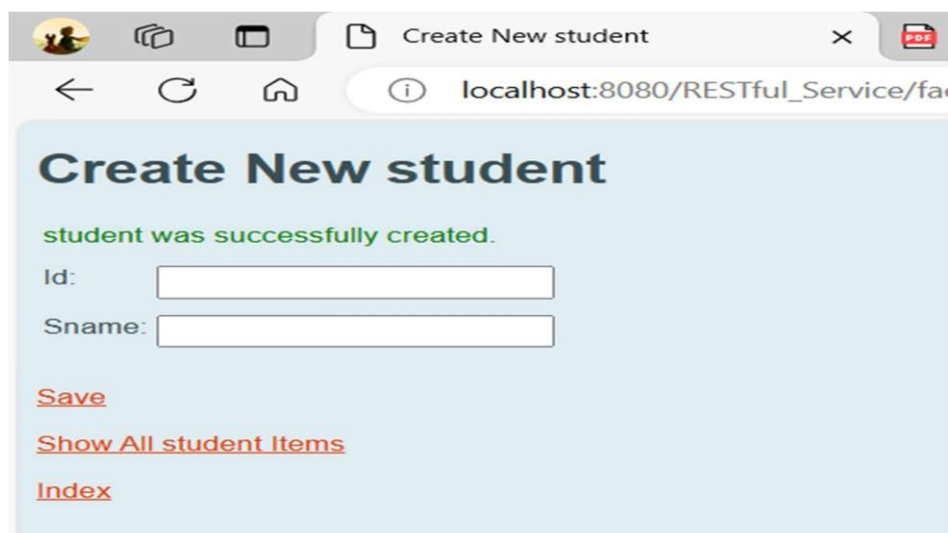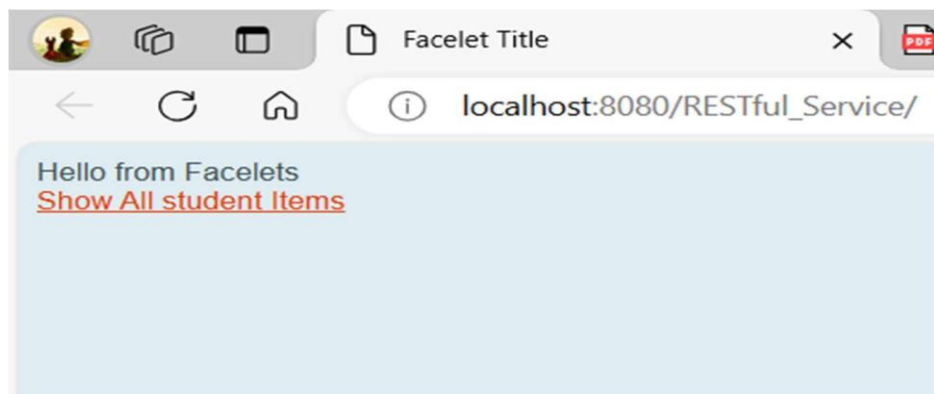< Back   Next >   Finish   Cancel   Help

Step 8: Now add RESTful web services from entity class as shown below in the image.

Step 9: Now deploy and run the project (make sure Oracle is shut on port 8080.

Hello from Facelets
Show All student Items

Create New student

student was successfully created.

Id:

Sname:

Save

Show All student Items

Index

List

1..4/4

Id	Sname	
22107	Pradeep Nishad	View Edit Destroy
22109	Omkar Sawardekar	View Edit Destroy
22117	Dixita Tandel	View Edit Destroy
22126	Roshan Gupta	View Edit Destroy

Create New student

Index

Step 10: Conclusion: we have successfully defined a RESTful web service that accepts the details to be stored in a database and performs CRUD operations. We are not storing data in DBMS we are just accepting in the list as we have to accept details.