

## Lab 2.4 – Interceptor

- Keep working in the same project
- Create a class StudentInterceptor in the package com.student.dao
- This will be our Interceptor Class,
- it will have once method; public Object log(InvocationContext inv) throws Exception
- Your method is to be annotated with @AroundInvoke

```
public class StudentInterceptor {  
  
    @AroundInvoke  
    public Object log(InvocationContext inv) throws Exception {...}  
  
}
```

# Associate your Interceptor with an EJB

- Provide an implementation to your method printing out some details about the InvocationContext using System.out.println i.e.
  - ❑ inv.getTarget().getClass().getName()
  - ❑ inv.getMethod().getName()
  - ❑ DO NOT FORGET to execute Object get Name = inv.proceed() the object from this method as the methods last statement
- Now annotate the class StudentDaoBean with the @Interceptors annotation pointing to your Interceptor. All methods of the EJB will be intercepted

```
@Interceptors(value=StudentInterceptor.class)  
public class StudentDaoBean implements StudentDao {
```

- Restart your server
- Run your Java client and you should see console output confirming your Interceptor is triggered when retrieving a single Student over the remote Interface

## Access another Method in the EJB

- You have another method in StudentDaoBean,
- `public Collection<Student> getAll()`
- In StudentServlet change your doGet so that if the QueryString parameter of "id" is null we want to call the method `getAll()` from the injected StudentDaoBean and place the returned Collection into the request

```
String strId = request.getParameter("id");
if(Objects.isNull(strId)){
    Collection<Student> students = studentDao.getAll();
    request.setAttribute("students", students);
} else {
    Student objectional = studentDao.getOne(Long.parseLong(strId));
    request.setAttribute("student", student);
}
request.getRequestDispatcher("home.jsp").forward(request, response);
```

# New Web Page

- In the lab setup directory for this lab, we have a new home.jsp
- Copy it and replace the jsp page in your project with this new file
- Restart your project
- Launch your project, select root project node on your server -> Run As -> Run on server that will display the jsp. Now test the application out, Your Interceptor is being used for both EJB methods (Check your console)

