## Phase 2

Day 5

Using cascade property through primary table ie Trainer object we can do specific operation to secondary table ie Student.

@OneToMany(cascade = CascadeType.ALL)

## **Auto increment:**

ORM tool or Hibernate allow us to create the tables automatically base upon some property set in Hiberante.cfg.xml file.

In one project many employee can be work : one to many relationship

One employee has one address: one to one relationship

**Projects** 

Pid (auto\_increment), pname

List<Employees> listOfEmployee

**Employees** 

Empid (pk), empname, salary

Address address

Address

Addid (PK)

City

State

Create table projects(pid int primary key auto_increment, pname varchar(10	)));
Web Application	
JDBC and Hibernate done	
Servlet and JSP	

## JEE: Java Enterprise Edition

Using JEE we can create web application using java technologies.

https://www.google.com --- URL

req (http/https)---→

Client Server

←--Res (http/https)
HTML – hyper text markup

language

CSS

Cascading style sheet.

JS (JavaScript)

Server side technologies

JEE (Servlet, JSP and EJB)

Asp.net

Php

CGI

Node JS

Python

To run these server side technologies we need server.

Because Inside Servlet, JSP or EJB no main method.

Application point of view server is mainly divided into two types.

- 1. Web Server : Tomcat part Apache etc.
- 2. Application Server: Web Logic, Jboss, Glashfish etc.

If server is type of web server which contains only one type of container.

Contains even also known as engine or run time environment. Web Server contains web container which is responsible to execute servlet and jsp program. Web server are light weighted server. Generally we use in development mode. They are generally open source.

If server is type of application server which can contains more than one different types of container. Like web container, ejb container, jms container etc. application server are heavy weighted. Generally they are paid version. Application server we use in production environment.

We will downloads web server ie tomcat 9.x / 10.x

Servlet: Servlet is normal java program which help to create dynamic web page on server side.

Servlet API.

servlet: java provided pre defined package is servlet. This package is part o javax.servlet.\*;

Servlet: Servlet is an interface part of sevlet package. This interface contains totally 5 methods.

javax.servlet.Servlet;

```
init
                                 only once get called at beginning
service
                                 again and again whenever client send request
destroy
                                 at last to destroy the object
                          life cycle method.
getServletInfo
getServletConfig
1<sup>st</sup> Option
class MyServlet implements Servlet {
                                 we need to override all 5 methods mandatory.
}
GenericSevlet: it is a type of abstract class which internally implements Servlet
                                 interface and provided body for 4 method
                                 except service method.
2<sup>nd</sup> options
class MyServlet extends GenericServlet {
we need to provide the body for service method mandatory. Other methods
                                 optional
}
HttpServlet: it is a type of abstract class which internally extends
                                 GenericServlet and provided body for service
                                 method. It also provide few extra method in
                                 the form of doXXX like doGet, doPost etc.
3<sup>rd</sup> option:
class MyServlet extends HttpServlet {
                                 service or doGet or doPost method which help
                                 to provide service for client.
}
```

