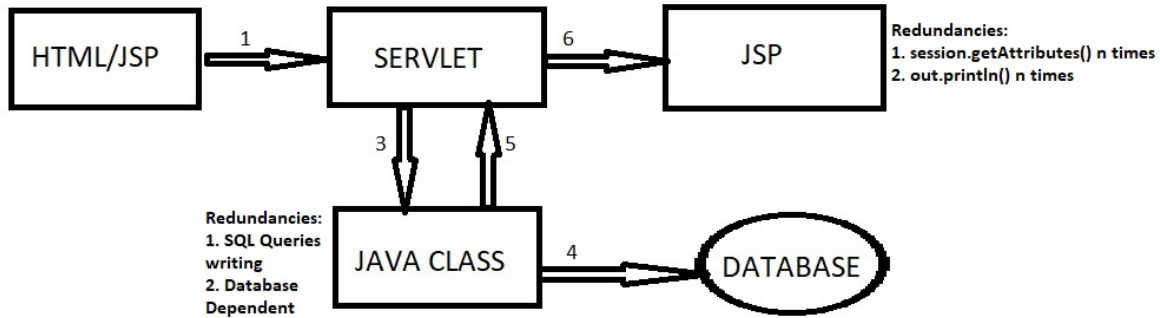


SESSION 20 PROGRAMS(SPRING BOOT)

REDUNDANCIES:

1. request.getParameter() n times
2. session.setAttribute() n times
3. Multiple actions cannot call 1 servlet



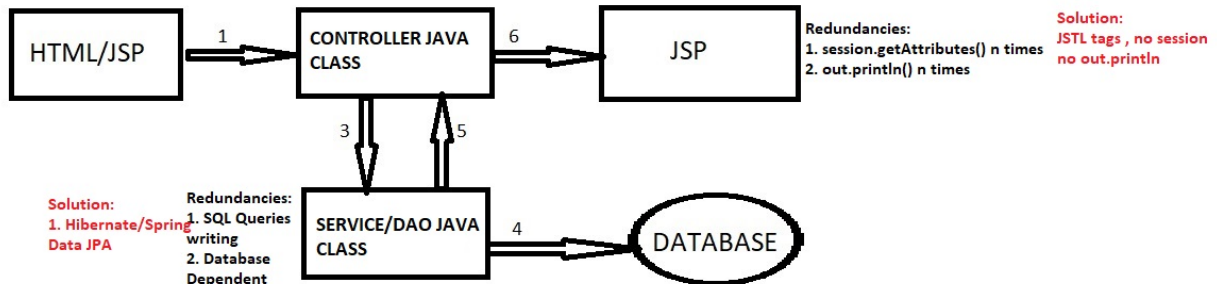
MVC 1

REDUNDANCIES:

1. request.getParameter() n times
2. session.setAttribute() n times
3. Multiple actions cannot call 1 servlet

Solution:

1. @RequestParam
2. @SessionAttributes
3. 1 Controller called by multiple actions



MVC 2

Spring Annotations:

@RequestParam : Request Objects Parameter. Use at method parameter level

@SessionAttributes : Session Objects Attributes . Use above Class

@GetMapping : Form action url Mapping method=get . Use above corresponding method called

@PostMapping Form action url Mapping method=post . Use above corresponding method called

@ModelAttribute : Auto transfer forms data to a Java bean object. Use at method parameter level.

@Autowired: Create object of another class without new keyword. Use inside class. Also called as Dependency Injection .Handled by Spring Container .

Spring Stereotypes(Use above Class Name):

@Component : Represents Spring Class

@Controller : Represents Spring Controller Class

@Repository : Represents Data Class with database access methods.

Program1 customerlogin.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title> Customer Login Form</title>
</head>
<body>

<form action="customerview" method="post">
<table>
<tr><td>Customer Login Form </td></tr>
<tr><td>Customer Id : </td><td><input type="text" name="cid"></td></tr>
<tr><td>Customer Name : </td><td><input type="text" name="cname"></td></tr>
<tr><td>Customer Email : </td><td><input type="text" name="cemail"></td></tr>
<tr><td></td><td><input type="submit" value="Submit"></td></tr>
</table>
```

```
</form>
</body>
</html>
```

Program2:CustomerController

```
import java.util.Iterator;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Controller;
```

```
import org.springframework.web.bind.annotation.GetMapping;
```

```
import org.springframework.web.bind.annotation.ModelAttribute;
```

```
import org.springframework.web.bind.annotation.PostMapping;
```

```
import org.springframework.web.bind.annotation.RequestParam;
```

```
import org.springframework.web.bind.annotation.SessionAttributes;
```

```
import org.springframework.web.servlet.ModelAndView;
```

```
@Controller
```

```
@SessionAttributes({"cid","cname","cemail"})
```

```
public class CustomerController
```

```
{
```

```
    @Autowired
```

```
    CustomerInt impl;
```

```
    @GetMapping("customerlogin")
```

```
    public String custLogin()
```

```
    {
```

```
        return "customerlogin";
```

```
    }
```

```
    @PostMapping("customerview")
```

```
    public ModelAndView custDetails(@RequestParam("cid") String cid,
```

```
    @RequestParam("cname") String cname, @RequestParam("cemail") String cemail ,
```

```
    @ModelAttribute Customer cust)
```

```
    {
```

```
        ModelAndView mv = new ModelAndView();
```

```
        mv.addObject("cid", cid);
```

```
        mv.addObject("cname", cname);
```

```
        mv.addObject("cemail", cemail);
```

```
        mv.setViewName("CustomerView");
```

```
        int cid1 = cust.getCid();
```

```

        System.out.println("The id is :" + cid1);
        String cname1 = cust.getCname();
        System.out.println("The name is :" + cname1);
        String cemail1 = cust.getCemail();
        System.out.println("The email is :" + cemail1);

        return mv;
    }

    @GetMapping("customersessionview")
    public String custSession()
    {

        return "CustomerSessionview";
    }
}

```

Program3: CustomerView.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Customer View</title>
</head>
<body>
<h1> View Customer Details </h1>

<h4>Customer Id : ${cid} </h4>

<h4>Customer Name : ${cname} </h4>

<h4>Customer Email : ${cemail} </h4>

<h4><a href="customersessionview"> Click here to get data into session page </a></h4>

</body>
</html>

```

Program 4: CustomerSessionView.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

```

```

    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1> View Customer Session Details </h1>

<h4>Customer Session Id : ${cid} </h4>

<h4>Customer Session Name : ${cname} </h4>

<h4>Customer Session Email : ${cemail} </h4>
</body>
</html>

```

SESSION 20 ASSIGNMENT

- **Write a Program to create Employee Controller class , employee jsp , employeeview jsp & employeesessionview jsp .**
- **Write 3 methods in Employee Controller class.**
- **1st method mapped to url="employee"**
- **2nd method mapped to url="employeeview"**
- **3rd method mapped to url="employeesessionview"**
- **Employee jsp should have fields like Name,Address,Mobile No & submit button.**
- **Display Request data in employeeview jsp . href to employeesessionview**
- **Display Session data in employeesessionview jsp .**
- **In EmployeeController Class use @RequestParam , @ModelAttribute & print the corresponding values in console .**