Servlet

Create Dynamic-web-application

Eclipse, navigate tomcat, new project => Dynamic Web project (with web.xml)

After submit url changes

http://localhost:8080/firstDinamicWeb/add?num1=2&num2=3 form action="add", input name="num1", "num2" so page not fount 404

```
New class (AddServlet.java)
(automatically placed within javaResource/src/package/)
public class AddServlet extends HttpServlet{
      @Override
      public void service(HttpServletRequest req, HttpServletResponse resp){
            int i = Integer.parseInt(req.getParameter("num1"));
            int j = Integer.parseInt(req.getParameter("num2"));
            int k = i + j;
            System.out.println("the sum is "+k);
Now we need to map that url with this servlet
Use web.xml (deployment descriptor)
<servlet>
      <servlet-name>add</servlet-name>
      <servlet-class>com.firstDinamicWeb.servlet.AddServlet</servlet-class>
                                just linker can be any same name
</servlet>
<servlet-mapping>
      <servlet-name>add</servlet-name>
      <url-pattern>/add</url-pattern>
</servlet-mapping>
http://localhost:8080/firstDinamicWeb/add?num1=2&num2=3
HttpServletRequest req
req.getParameter("num1")
To display result at browser (Making page for that /add link)
Alt+Shift+L => create variable in eclipse
PrintWriter writer = resp.getWriter();
writer.println("output is :"+k);
All type Http methods can Reach servlet service() method
      public void service(HttpServletRequest req, HttpServletResponse resp){
<form action="add" by default it is Get: /add>
      First Num: <input type="text" name="num1"/><br>
```

In order to Specific accessible http method

In above post case url will be

http://localhost:8080/firstDinamicWeb/add

number potion won't be there

Calling one Servlet form another Servlet

There is two way

Request Dispatcher

Redirect

```
public class AddServlet extends HttpServlet{
    @Override
    public void doPost(HttpServletRequest req, HttpServletResponse resp){
        RequestD ispatcher rd = req.getRequestDispatcher("sqr");
        rd.forward(req, resp);

public class SqrtServlet extends HttpServlet{ (web.xml /sqr is there)
    @Override
    public void doCet(HttpServletRequest req, HttpServletResponse resp){
        @Override
        public void doPost(HttpServletRequest req, HttpServletResponse resp){
```

But doPost() calls doPost()

If there is no matching no methods will be called (no display)

Parsing data one Servlet to another Servlet

```
Session management
Request dispatcher going to forward my req
Before that we setAttribute
public class AddServlet extends HttpServlet{
      @Override
      public void doPost(HttpServletRequest req, HttpServletResponse resp){
      req.setAttribute("key", k);
      RequestDispatcher rd = req.getRequestDispatcher("sqr");
      rd.forward(req, resp);
GetAttribute from other Servlet
public class SqrtServlet extends HttpServlet{
      @Override
      public void doPost(HttpServletRequest req, HttpServletResponse resp){
            int k = (int) req.getAttribute("key");
Req, Resp Objects
http://localhost:8080/firstDinamicWeb/index.html
First num:
Secound num:
   submit
<form action="add" method="get">
http://localhost:8080/firstDinamicWeb/add?num1=2&num2=3
<form action="add" method="post">
                                                                     Web
http://localhost:8080/firstDinamicWeb/add num1=2&num2=3
                                                                  Container
```

Creates req, resp objects

MVC

