

Phase 2

Day 6

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

1st Option

class MyServlet implements Servlet {

we need to override all 5 methods mandatory.

}

GenericServlet : it is a type of abstract class which internally implements Servlet interface and provided body for 4 method except service method.

2nd 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.

3rd option :

```
class MyServlet extends HttpServlet {
```

service or doGet or doPost method which help to provide service for client.

```
}
```

<http://localhost:8080/ProjectName/UrlMappingOrPattern>

Now we will create index.html (generally it first page consider in all application)

Using hyperlink we call the servlet program.

Now we will create login.html create and we will send emailed and password to servlet and servlet check emailed and password with hard coding if correct display successfully login or failure.

LoginServlet.java

By default browser, hyperlink or form always call doGet method.

If method is get the information send the URL using URL Rewriting technique

URL?key=value one information

URL?key=value&key=value&key=value

Get method is not secure. Max we can send 255 character data.

If we want data must be secure then we need to use post method.

If method is post data will send through request body part. Post is slower than get method.

RequestDispatcher : It is an interface which provided set of methods which help to navigate from one page to another page with or without conditions.

```
RequestDispatcher rd1 = request.getRequestDispatcher("path");
```

Target page

Servlet : path must be target page url pattern.

html : pageName.html

jsp :pageName.jsp

```
rd1.forward(request,response); we can see the output of only target page
```

```
rd1.include(request,response); source page + target page combine as one page
```

Servlet with JDBC using Maven Project

For SignIn and SignUp