# Working with Form and Query String Data



### Sekhar Srinivasan

@sekharonline4u - www.sekhartheguru.net

Handle HTTP-GET Request

```
package Demo.Fluralsight.com/
 [] noingest java.lo.ioExceptions
id . Serviet implementation class therinfollowist
10 Section relat ("/Owncladedervist")
1) public class UserInfutervist extends Stiptervist (
      private static final long serialVersionUTD - 11/
       * Hees HitpoorwisteRitpoorwist()
      gublic TeerInfoDerviet() |
           // MIDO Buto-processed constructor study
       * Seen StigServietSdojet(StipServietSequest request, StipServietSespune response)
      protected word doler HttpdervietRequest request, HttpdervietResponse response) throws ServietException, lokaception (
          response_setContentType("test/html");
          PrintWriter out a response getWriter();
          out.grintln("chi-Reading QueryString data using 'String getFarameter(String mame)' method : </hd>
          String firstSize = request.getParameter("firstSize"))
          String lastNone a request.getFarmmeter( "LastName" 1)
          mit-printing*wdlws*);
          out_printin(*cp)First Name : " + firstName + 4c/p)*);
          out-grintin("cpolart Name : " + lastSame + "c/go"):
          out_println("</60vo"):
          mut_ggintin("<h3rReading queryfitzing date using "Emmeration getFaranterName()" method </h3r*);
                  Engmeration-Otting) parantumes 2 report-getParameterNamen(1)
```

Handle HTTP-GET Request

Handle HTTP-POST Request

```
| BWebServlet("/Register")
public class Register extends HttpServlet (
    private static final long serialVersionUTD - 11.2
     * (see HttpServlet#HttpServlet()
    public Register() (
         // TODO Auto-generated constructor stub
     * čsem HilpServiet#doPost(HilpServietRequest request, HilpServietResponse response)
    protected void doPost (HttpServletRequest request, HttpServletResponse response) throws BeryletException, IOException (
        String username - request.getParameter("username");
        String password = request.getParameter("passwd");
        String gender = request.getParameter("gender");
        String[] hubbles = request.getParameterValues("hobbles");
        String country = request.getParameter("country");
        String() languages = request.getParameterValues("languages");
        response.setContentType("text/html")/
        PrintWriter out - response.getWriter();
        out.println(*cdiv>*);
        out.println("cp>User name : " + usermame + "c/p>");
        out.println("cp>Password : " + password + "c/p>");
        out.println(*Sex : * + gender + **);
        out.println(*Hobbies : ");
        for (int i = 0; i < hobbles.length; i++) (
            out.println(hobbies[i] + *c/hr>*);
        out.println("Country : " + country + "");
        out.println(*Languages Known : *);
        for (int 1 = 0; 1 < languages.length; 1++) {
            out.println(languages(i) + "<br>*);
```

Handle HTTP-GET Request

Handle HTTP-POST Request

Handle QueryString Data



Handle HTTP-GET Request

Handle HTTP-POST Request

Handle QueryString Data

Creating an HTML Page



Handle HTTP-GET Request

Handle HTTP-POST Request

Handle QueryString Data

Creating an HTML Page

Access HTML Page Form data from Servlet



## Why HttpServlet?

#### GenericServlet

GenericServlet is Protocol Independent

Service method handles all Requests

Can handle only Simple Requests

Can't track Session data

#### **HTTPServlet**

Specially designed for HTTP-Protocol

Supports all HTTP-Verbs

-HTTP-GET,HTTP-POST, HTTP-PUT,HTTP-DELETE

```
public class HttpServletName extends HttpServlet
  protected void doGet (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPost (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doDelete (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPut (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
```

```
public class HttpServletName extends HttpServlet
  protected void doGet (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPost (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doDelete (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPut (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
```

```
public class HttpServletName extends HttpServlet
  protected void doGet (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPost (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doDelete (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPut (HttpServletsRequest request, HttpServletResponse (response)
                                 throws ServletException, IOException
```

```
public class HttpServletName extends HttpServlet
  protected void doGet (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPost (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doDelete (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPut (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
```

```
public class HttpServletName extends HttpServlet
  protected void doGet (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPost (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doDelete (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
  protected void doPut (HttpServletsRequest request, HttpServletResponse response)
                                 throws ServletException, IOException
```

## HTTPServletRequest Variable Methods

For Accessing Form Data

getParameter (String name)

getParameterValues (String name)

getParameterMap()

getParameterNames()

## Demo



Handling GET Method in Servlets

## Demo



Handling Form Data Method in Servlets

# Handling POST Method in Servlets

#### **GET**

- Back Button / Reload Page is Harmless
- Requests can be bookmarked
- Requests can be Cached
- Parameter values will be maintained at the Browser's History
- Size of data is limited supports
   2048 characters
- Supports only ASCII Characters
- Less Secured

#### POST

- Data will be re-submitted and an alert is displayed
- Requests can't be book marked
- Cache is not supported
- Parameters are not saved in Browser's History
- No Size restrictions
- No Restrictions on type of data submitted
- Secured

# Summary



Handling GET Method in Servlets

Handling POST Method in Servlets

Handling Form Data Method in Servlets