



```

public class StaticFileServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest rq, HttpServletResponse rs) throws ServletException, IOException {
        String fileName = rq.getPathInfo(); ← related to the web
        System.out.println(fileName);
        try (ServletOutputStream os = rs.getOutputStream()) {
            Files.copy(Path.of(fileName), os);
        }
    }
}

```

related to OS
file request

```

+ ~ ls -al /ibm.jpg
ls: /ibm.jpg: No such file or directory

```

/a/.bm.jpg
/ibm.jpg

this is web request

```

handler.addServlet(new ServletHolder(new StaticFileServlet()), pathSpec "//*");

```

URL: http://localhost:8080/ibm.jpg

```

String requestedName = rq.getPathInfo(); /ibm.jpg
if (requestedName.startsWith("/")) requestedName = requestedName.substring(beginIndex: 1); ibm.jpg a/.bm.jpg
String fileName = getClass().getClassLoader().getResource(requestedName).getFile();

```

/Users/alexr/dev/abb/az-be5-classes/target/classes/ibm.png

data (HashMap) + HTML w/ placeholders
\$a \$b => HTML

```
Configuration conf = new Configuration(Configuration.VERSION_2_3_28);
conf.setDefaultEncoding(String.valueOf(StandardCharsets.UTF_8));
conf.setDirectoryForTemplateLoading(new File("src/main/java/lesson22web"));

HashMap<String, Object> data = new HashMap<>();
data.put("name", "Jim");
data.put("age", 33);
```

```
try (PrintWriter w = rs.getWriter()) {
    conf.getTemplate(name "test2.ftl").process(data, w);
} catch (TemplateException e) {
    throw new RuntimeException(e);
}
```

The screenshot shows the content of a file named 'test2.ftl'. The code is:

```
1 <html>
2   <body>
3     <p>Hello, ${name}</p>
4     <p>my age is ${age}</p>
5   </body>
6 </html>
```

Hello, Jim
my age is 33

localhost:8080/form

GET

```
/** showing form */
@Override
protected void doGet(HttpServletRequest rq, HttpServletResponse rs) throws ServletException, IOException {
    String fileName = getClass().getClassLoader().getResource("form.html").getFile();
}
```

```
<body>
<form method="post">
<input type="text" name="username">
<input type="text" name="password">
<input type="submit">
</form>
</body>
```

✓ POST

Request Data

```
MIME Type: application/x-www-form-urlencoded
username: alex
password: superpas
```

```
@Override
protected void doPost(HttpServletRequest rq, HttpServletResponse rs)
    try (PrintWriter w = rs.getWriter()){
        String username = rq.getParameter("username");
        String password = rq.getParameter("password");
        w.printf("user entered: %s, %s", username, password);
    }
```

GET

can be sent by any browser
cached

parameters attached in the URL
`http://localhost:8000/calc?x=5&y=7`

POST / PUT / PATCH / DELETE

only by form / programming way
never cached

parameters in the body
never shown in URL

