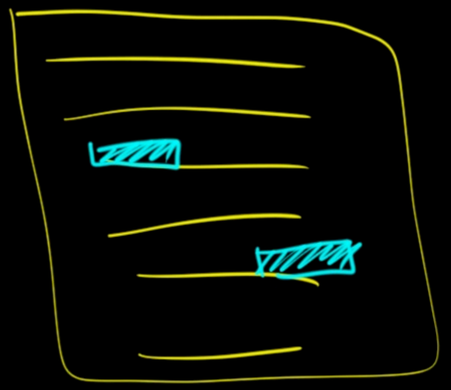
1) template



2) static content

js
css
img
=
=

/css/1.css
/js/2.js
/image/google.JPG

3) upload / download file

4) form + form handdle + <a href>

5) redirect

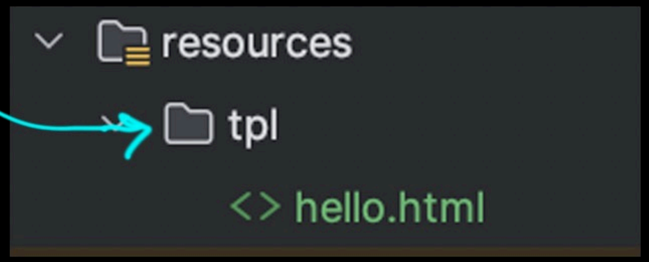
```java
@Override
protected void doGet(HttpServletRequest req, HttpServletResponse resp)
  Configuration cfg = new Configuration(Configuration.VERSION_2_3_33);
  cfg.setDirectoryForTemplateLoading(new File(
    ResourcesOps.dirUnsafe( prefix: "tpl")));

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

  try (Writer w = resp.getWriter()) {
    cfg.getTemplate( name: "hello.html")
      .process(data, w);
  } catch (TemplateException e) {
    throw new RuntimeException(e);
  }
```

```xml
<dependency>
    <groupId>org.freemarker</groupId>
    <artifactId>freemarker</artifactId>
    <version>2.3.33</version>
</dependency>
```

1




```html
<!doctype html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
          content="width=device-width, user-sca
    <meta http-equiv="X-UA-Compatible" content=
    <title>Document</title>
</head>
<body>
    Hello, ${name}!
</body>
</html>
```

Hello, Jim!

f:(template, data) → html

```
<img src="static/google.png">
```

URL

URL

http://localhost:8080/static/google.png

/.../java-web/resources/static0/google.png

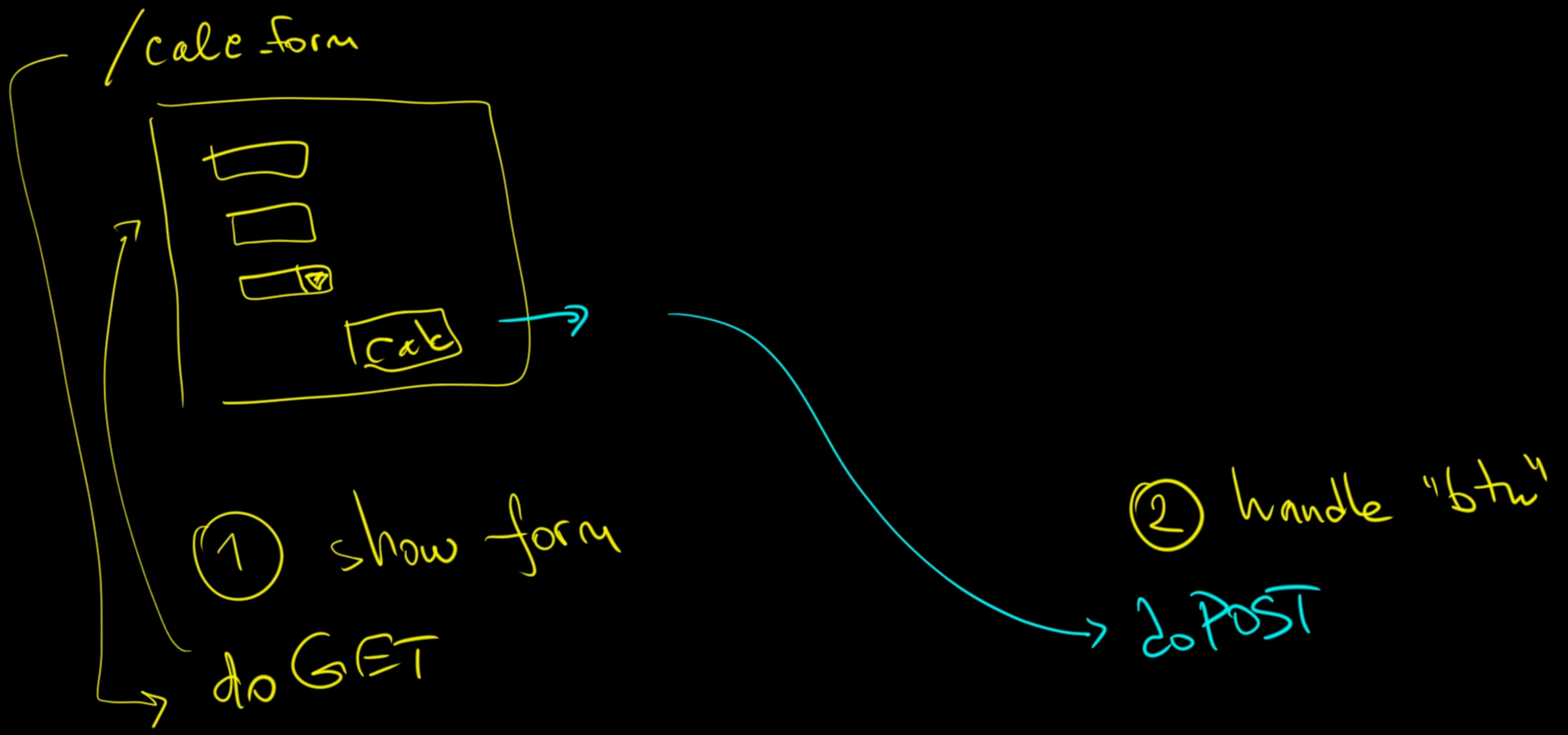
URL: http://localhost:8080/google.png

getPathInfo

```
public StaticContentServlet(String prefix) {
  this.prefix = ResourcesOps.dirUnsafe(prefix);
}

@Override
protected void doGet(HttpServletRequest req, Htt
  String fileName = req.getPathInfo();
  String fullName = prefix + fileName;
```

```
handler.addServlet(new ServletHolder(new StaticContentServlet( prefix: "static0")),  pathSpec: "/static/*");
```


/calc-form
Calc
① show form
doGET
② handle "btn"
doPOST

Summary

URL: http://localhost:8080/dfslkjvldfkjgndfkjv
http://localhost:8080/home
Status: 200 OK
Source: Network
Address: ::1:8080

Request

GET /dfslkjvldfkjgndfkjv
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: none
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/17.6 Safari/605.1.15

Redirect Response

302 Found
Date: Tue, 19 Nov 2024 19:59:24 GMT
Location: http://localhost:8080/home

Request

GET /home HTTP/1.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en-GB;q=0.9,en;q=0.8
Connection: keep-alive
Host: localhost:8080
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: none
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/17.6 Safari/605.1.15

Response

HTTP/1.1 200 OK
Date: Tue, 19 Nov 2024 19:59:24 GMT
Server: Jetty(9.4.56.v20240826)
Transfer-Encoding: Identity