

```
html> html
                                                                         use css
(head)
 k rel="stylesheet" href="template2.cs
 </head>
<body onload="loadDoc()">
          <div class="header">
                   <div class="header topmost"></div>
                   <div class="header spacing line thin"></div>
                   <div class="header logo">
                                                                                                                                                               <!DOCTYPE html>
                            <img src="Images/logo-aanbodkrant.png" align="left">
                                                                                                                                                                 ><html>
                            <img src="Images/logo-uwv.png" align="middle">
                                                                                                                                                                 ><head>
                            <img src="Images/logo-werkgevers-servicepunt4.png" align</pre>
                                                                                                                                                                  <meta charset="ISO-8859-1">
                   </div>
                                                                                                                                                                  <title>personForm</title>
                   <div class="header search">
                                                                                                                                                                  </head:
                            <form method="get" action="/search" id="search"><input n
                                                                                                                                                                 ><body>
                                                                                                                                                                                       Form for new person
                   </div>
          </div>
                                                                                                                                                                             <form id = "dataInputByForm" n
          <div class="header spacing_line_thick"></div>
          <div id="main-content-text">
                                                                                                                                                                              <fieldset>
                   <span>Ontmoet<a> Onze ICT Professionals</a></span>
                                                                                                                                                                               <legend>Information Candidate
                   <span><b>Van Frontend Developer tot Senior Network Engine
          </div>
                                                                                                                                                               \ \label for="filename">Photo (max 2
          <div id="main-content-candidates">
                                                                                                                                                                  <input id="upload" type="file" onC</pre>
          <script src = "mainContent.js"></script>
                                                                                                                                                                  <label for="filename">cv (max 1MB)
                                                                                                                                                                  <input id="upload" type="file" onC</pre>
                                       call Javascript
                                                                                                                                                                  <!-- <input id="filename" type="
                                                                                                                                                                  <div id="admin-bar
                                     <button onclick="getPersonForm()">Persoon toevoegen
          </div>
                                                                                                                                                                <input id="submit" onclick="formSubmit()"</pre>
          <div id="footer">
                                                                                                      present Form
                                                                <span>Contact of the contact of
                                                                                                                                                                </fieldset>
</body>
                                                                                                                                                                </form>
                                          JavaScript Resources

✓ M > WebContent

                                                                formSubmit()
                                                                 getPersonForm()
                                                                 loadDoc()
                                                                 loadPerson(id)
                                                                uploadOnChange(e, divName)

■ ECMAScript Built-In Library

                                                         ECMA 3 Browser Support Library
        template2.css
```

> WebContent

> 🛅 Images

✓ META-INF

→ Description
→ WEB-INF

Output

Description

Descri

> in beans.xml

> 时 web.xml

index3.html

mainContent.js

MANIFEST.MF

formSubmit()

loadDoc()

template2.css

getPersonForm()

loadPerson(id)

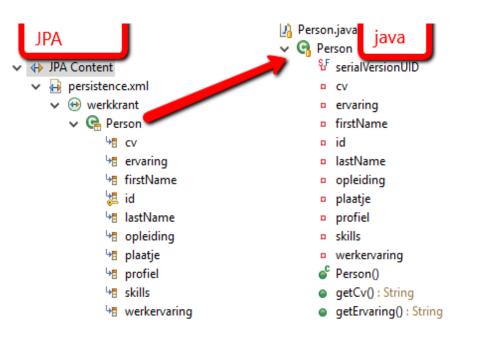
> personForm.html

uploadOnChange(e, divName)

> 🔓 CV

## Persistence

```
<?xml version="1.0" encoding="UTF-8"?>
<persistence version="2.1" xmlns="http://xmlns.jcp.org/xml/ns/persistence" xmlns:xsi="http://www.w3.org/2001/XMLSchem</pre>
   <persistence-unit name="werkkrant">
      org.hibernate.ejb.HibernatePersistence
      <jta-data-source>java:jboss/datasources/java8databaseDS</jta-data-source>
      <class>nl.java8cursus.rest.Person</class>
      cproperties>
         property name="javax.persistence.schema-generation.database.action"
             value="drop-and-create" />
         value="metadata" />
         property name="javax.persistence.schema-generation.drop-source"
             value="metadata" />
         property name="hibernate.show sql" value="true" />
         cproperty name="hibernate.format sql" value="true" />
         perty name="hibernate.dialect" value="org.hibernate.dialect.PostgreSQLDialect"/>
      </properties>
                      Hibernate
   </persistence-unit>
                                                              PostgreSQL
</persistence>
```



## **REST**: Representational State Transfer

**RESTful web services are one way of providing interoperability between computer systems on the Internet,** REST-compliant Web services allow requesting systems to access and manipulate textual representations of <u>Web resources</u> using a uniform and predefined set of <u>stateless</u> operations. Using HTTP, as is most common, the kind of operations available include those predefined by the HTTP verbs GET, POST, PUT, DELETE and so on.

JAX-RS: Java API for RESTful Web Services is a <u>Java programming language</u> <u>API</u> spec that provides support in creating <u>web services</u> according to the <u>Representational State Transfer</u> (REST) architectural pattern.<sup>1</sup>

JAX-WS: Java API for XML Web Services

**URI: Uniform Resource Identifier** 

**URL**: Uniform Resource Locator

**CSS: Cascading Style Sheets** 

HTML: HyperText Markup Language - creating web pages and web applications

AJAX : Asynchronous JavaScript and XML – a collection of related technologies based on JavaScript, XML and the DOM. Ajax is the ability to retrieve new data from the server without unloading the current page.

**DOM:** Document Object Model - The DOM enables Ajax because, once new data is retrieved, it can be used to insert the data into the page.

JSON: JavaScript Object Notation - JSON: The Fat-Free Alternative to XML

XML: Extensible Markup Language is a <u>markup language</u> that defines a set of rules for encoding <u>documents</u> in a <u>format</u> that is both human-readable and machine-readable.

JavaScript: the programming language of HTML and the Web - is a high-level, dynamic, untyped, and interpreted programming language.

Java Platforms, Enterprise Edition or Java EE is a widely used <u>computing platform</u> for <u>enterprise software</u>.

Java: an Object-Oriented programing language with its own runtime environment

**DAO**: Data Access Object is an object that provides an abstract interface to some type of database or other persistence mechanism.

Hibernate: provides a framework for mapping an object-oriented domain model to a relational database

JPA: Java Persistence API is a <u>Java application programming interface</u> specification that describes the management of <u>relational data</u> in applications using <u>Java Platform</u> SE / EE

PostgreSQL: an object-relational database (ORDBMS) – i.e. a RDBMS, with additional "object" features

Wildfly: (JBoss) Application Server authored by JBoss, now developed by Red Hat. WildFly is written in Java

The **Spring Framework** is an <u>application framework</u> and <u>inversion of controlcontainer</u> for the <u>Java platform</u>. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the <u>Java EE</u> platform.

Java Platform, Enterprise Edition or Java EE is a widely used <u>computing platform</u> for development and deployment of <u>enterprise software</u> (<u>network</u> and <u>web services</u>). [1] Java EE was formerly known as Java 2 Platform, Enterprise Edition or J2EE.