

O cem to bude?

- Java uvod
- Install java, eclipse, glassFish
- Hello world
- Server
- Konec

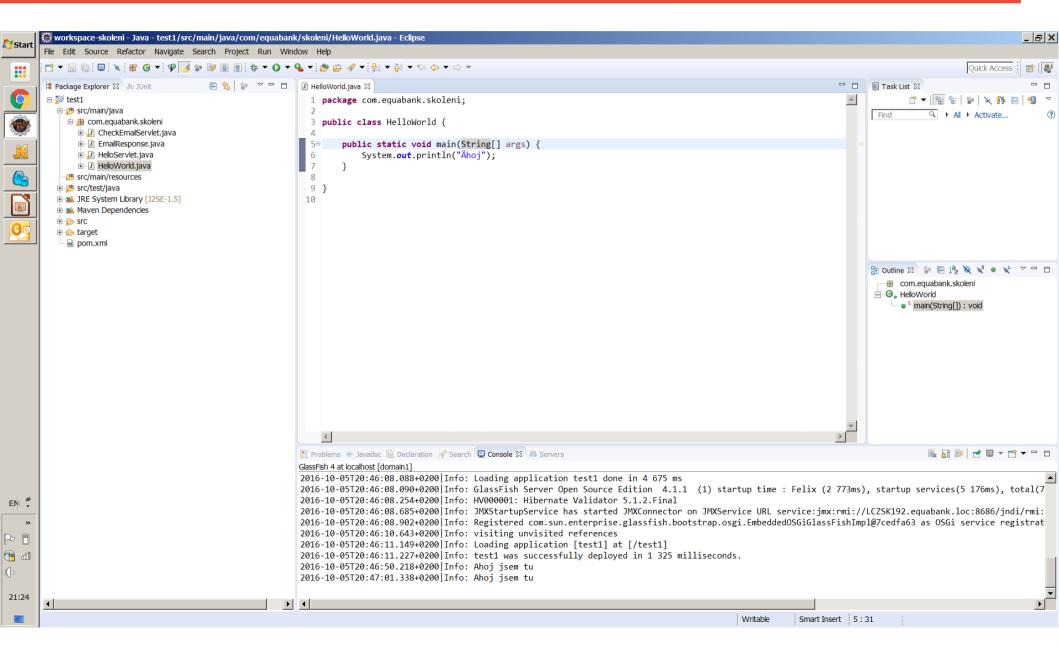
- Instalace
 - Java
 - *IDE eclipse*
 - Server Tomcat
- Priklady
 - HelloWorld
 - Napojeni na REST/JSON sluzbu
 - Servlety & JSP
 - REST/JSON

https://github.com/jajir/skoleni

Java & JVM

- Zdrojovy kod x binarni kod
- Kompilace .class → .java
- Javac (ukazat, kde je to na disku)
- JVM
- Proc je to uspesne (http://pypl.github.io/PYPL.html)
 - Google
 - Tooling ()
 - Knihovny

IDE - Eclipse



Zalozeni projektu ...

- New maven project -maven-archetype-webapp
- New package
- New class HelloWorld
- Pom.xml maven (vysvetlit)

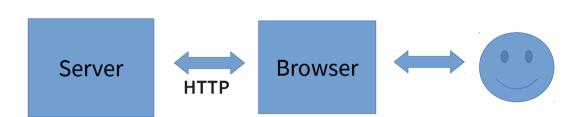
Hello World

```
package com.equabank.skoleni;
public class HelloWorld {
   public static void main(String[] args) {
      System.out.println("Ahoj");
```

Web Server

Server

- html (php)
- .js, .css .ico ...



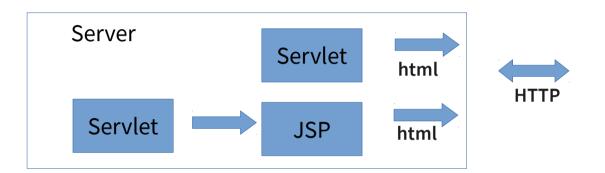
• HTTP

- Method get, post, delete ...
- Formular

```
<form name="checkEmailForm" method="post"
action="checkEmail">
Email: <input type="text" name="email"/> <br/>
<input type="submit" value="Odeslat" />
</form>
```

Web application

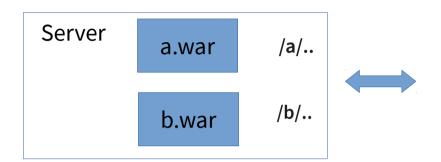
- Servlet
- Servlet JSP
- .war
- META-INF
- Web.xml
 - Servlet mapping
 - Welcome page



War

- .war projekt
- Web.xml
- Deploy nasazeni
- Redeploy aktualizace
- Server (enterprise, servlet container ...)

Mvn package → .war



Hello world servlet

System.out.println("Ahoj jsem tu");

requestDispatcher.forward(reg, resp);

Web.xml HelloServlet.java

```
<servlet>
                                         <servlet-name>helloServlet</servlet-name>
                                         <servlet-class>com.equabank.skoleni.HelloServlet</servlet-class>
                                         </servlet>
                                         <servlet-mapping>
                                         <servlet-name>helloServlet</servlet-name>
                                         <url-pattern>/index</url-pattern>
                                         </servlet-mapping>
                                         <welcome-file-list>
                                         <welcome-file>index</welcome-file>
                                         </welcome-file-list>
protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
 req.setAttribute("ahoj", "Ahoj vzacny hoste");
 RequestDispatcher requestDispatcher = req.getRequestDispatcher("/index.jsp");
```

@Override

Form – email (validace)

Servlet

- Get → form
- Post → result
- Jsp
 - form
 - result

Email – super validace

```
Client client = Client.create();
WebResource webResource = client
.resource("https://ajith-Verify-email-address-
v1.p.mashape.com/varifyEmail?email=" + email + "");
ClientResponse response =
webResource.getRequestBuilder().header("Accept", "application/json")
.header("X-Mashape-Key",
"c1CZ2L4YdimshRiXqsgHuCoJXfI2p1N4RLOjsn2zYu6JrPnBF9")
.accept("application/json").get(ClientResponse.class);
if (response.getStatus() != 200) {
throw new RuntimeException("Failed: HTTP error code: " +
response.getStatus());
return response.getEntity(EmailResponse.class);
```

Kde hledat pomoc?



- Gfo team
- http://stackoverflow.com/
- Google
 - Negativni odpoved je taky odpoved
- Dlasi znalosti
 - Oracle certifikace
 - Amazon treba:
 - https://www.amazon.com/Java-Beginners-Guide-Herbert-Schildt/dp/0071809252/ref=sr_ 1_1?s=books&ie=UTF8&qid=1474528527&sr=1-1&keywords=java+programming

O cem to nebylo

- Jazyk
- Logging
- IoC
- Tooling (...)
- kvalita kodu
- Release process
- DB (ORM)
- Messaging
- Navrh kodu design patterny
- Big data
- ... tuna dalsiho

- Do javy kompilovane jazyky
- SCM git ...
- Image processing
- Java.* libraries
- Navrh applikaci