

Iskustva u korištenju GWT frameworka

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Agenda

- GWT overview
- Izbor zanimljivih feature-a
- Pros & Cons

GWT overview

GWT's mission is:

to radically improve the web experience for users

by enabling developers

to use existing Java tools to build

no-compromise AJAX

for any modern browser.

Kako koristimo GWT

▲ GWTDemo

▲ src

▲ module

▲ client

▷ GWTDemo.java

server

GWTDemo.gwt.xml

▷ GWT SDK [GWT - 2.1.1]

▷ JRE System Library [jdk1.6.0_23]

▲ war

▷ WEB-INF

GWTDemo.html

```
package module.client;
import com.google.gwt.core.client.EntryPoint;

public class GWTDemo implements EntryPoint {
    public void onModuleLoad() {

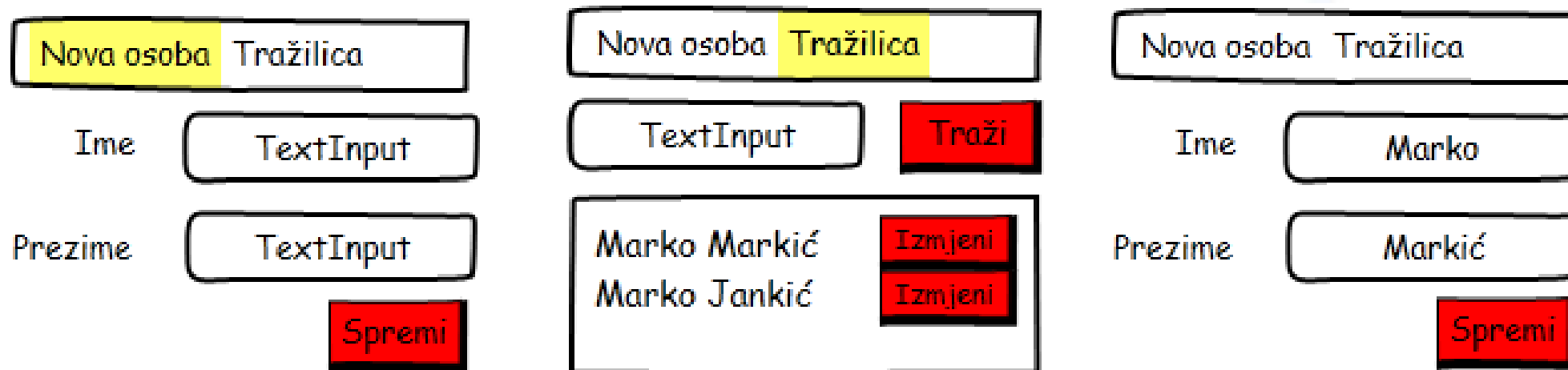
    }
}
```

```
<?xml version="1.0" encoding="UTF-8"?>
<module rename-to='gwt-demo'>
    <inherits name='com.google.gwt.user.User' />
    <entry-point class='module.client.GWTDemo' />
    <source path='client' />
</module>
```

Kako koristimo GWT

```
<!doctype html>
<html>
  <head>
    <meta http-equiv="content-type"
      content="text/html; charset=UTF-8"/>
    <script type="text/javascript"
      language="javascript"
      src="module/GWTDemo.nocache.js"/>
  </head>
  <body>
    <noscript><div>Uključite JavaScript</div></noscript>
    <div id="modulePlaceholder"></div>
  </body>
</html>
```

Cool stuff – Places



- 2 „mjesto” u aplikaciji:
 - Osoba(ID)
 - Tražilica

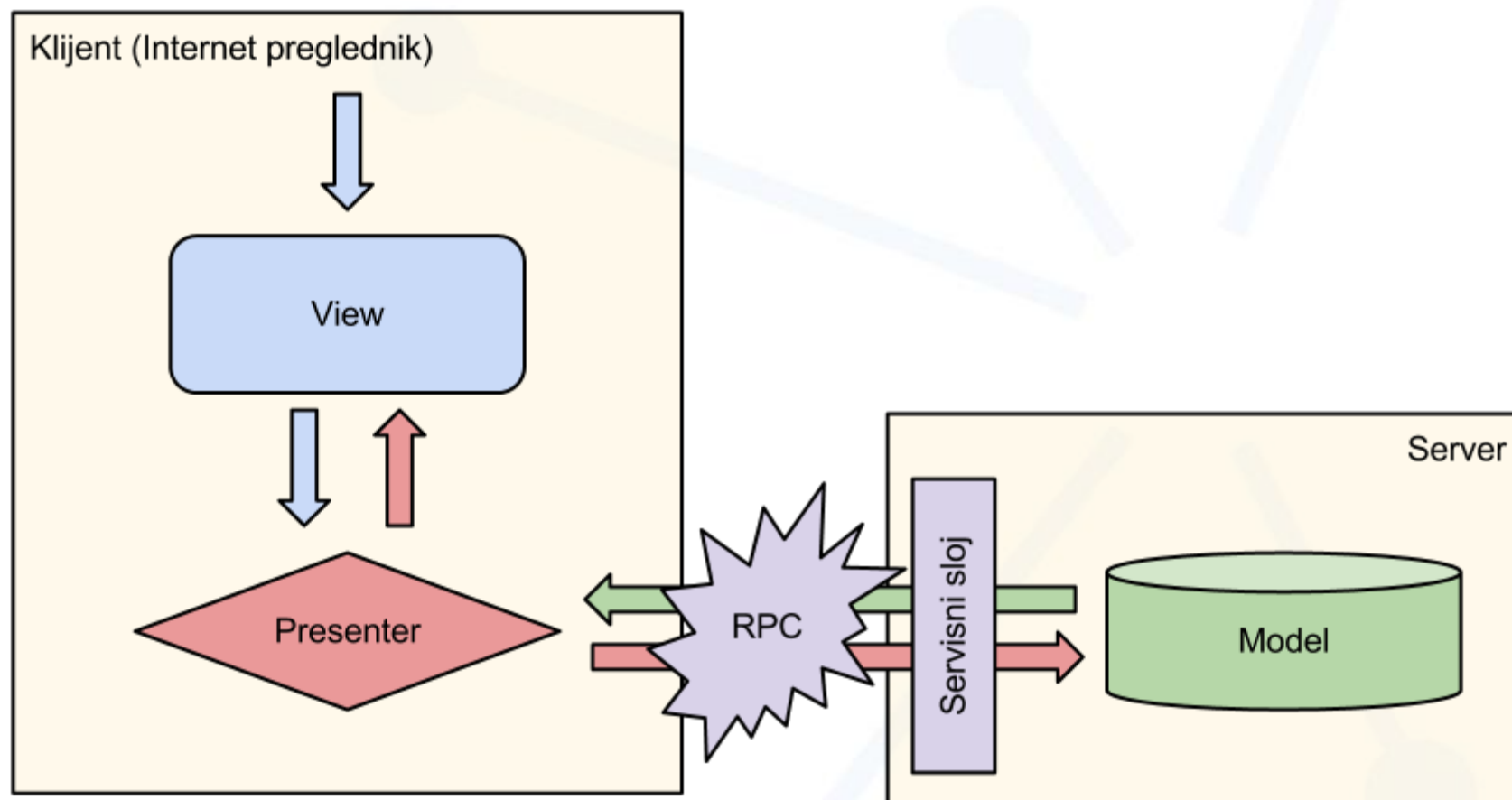
Cool stuff - Places

- Place
 - Bookmarkabilna pozicija unutar aplikacije (URL)
 - Predstavlja određeno stanje aplikacije
- PlaceTokenizer
 - Serijalizira/deserijalizira Place u „zadnji dio” URL-a (token)

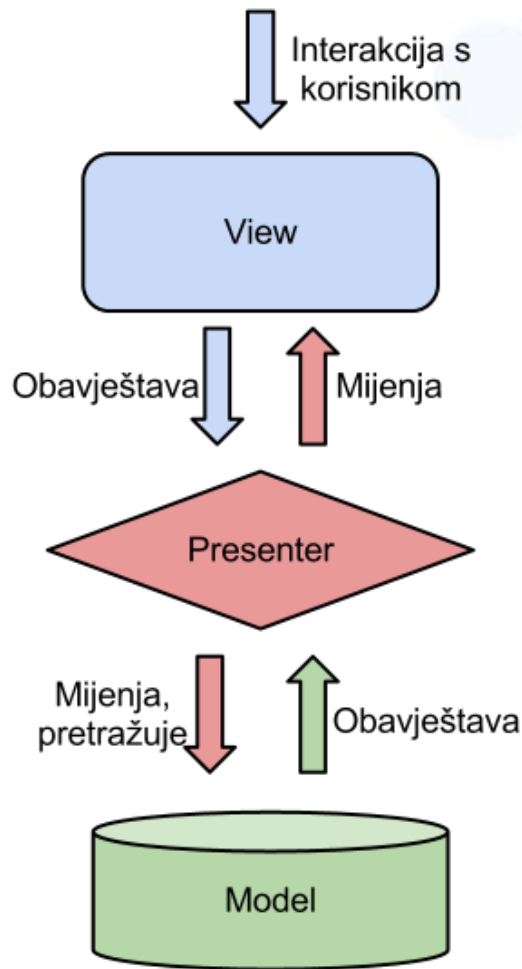
Cool stuff - Activities

- Activity
 - „Nešto što korisnik radi”
 - Obično:
 - Wake up – obnova stanja
 - Set up – inicijalizacija
 - Show up – postavljanje UI-ja
- ActivityMapper
 - Povezuje Activity i Place

Cool stuff – GWT RPC



Cool stuff: M(odel) V(iew) P(resenter)



View

prikaz sučelja

Presenter

koordinacija i povezivanje
aplikacije

Model

domenski podaci (dohvat,
pohrana)

Cool stuff - Validacija

- Dosad problematična
- Na serveru ? Ili na klijentu?

JSR 303

```
public class Car {  
  
    @NotNull  
    private String manufacturer;  
  
    @NotNull  
    @Size(min = 2, max = 14)  
    private String licensePlate;  
  
    public Car(String manufacturer, String licencePlate)  
    {  
        super();  
        this.manufacturer = manufacturer;  
        this.licensePlate = licencePlate;  
    }  
  
    //getters and setters ...  
}
```

- validacija na razini POJO beanova
- validacijske grupe
- prihvaćen standard

Cool stuff – ostalo

- UI Binder
- Cell Widgeti
- Editori
- HTML5
- Gin
- RequestFactory

GWT Pros



- čisti Java development
- Google
- promišljen proizvod
- community
- cross-browser
- optimizacija, obfuskacija
- istovremeni debugging klijenta i servera
- I18N i L10N

GWT Cons

- brzo se mijenja
- nije "zabavan,,
- neekspresivnost JAVA-e
- mnogo koda
- spora kompilacija
- knjige



Zaključak

- Java, Java, Java..
- red i organizacija
- nije isuviše zabavno, ali može biti vrlo korisno

Hvala na pažnji

- Pitanja