Vaadin 7

Worldwide Hack Day

@joonaslehtinen
Founder & CEO

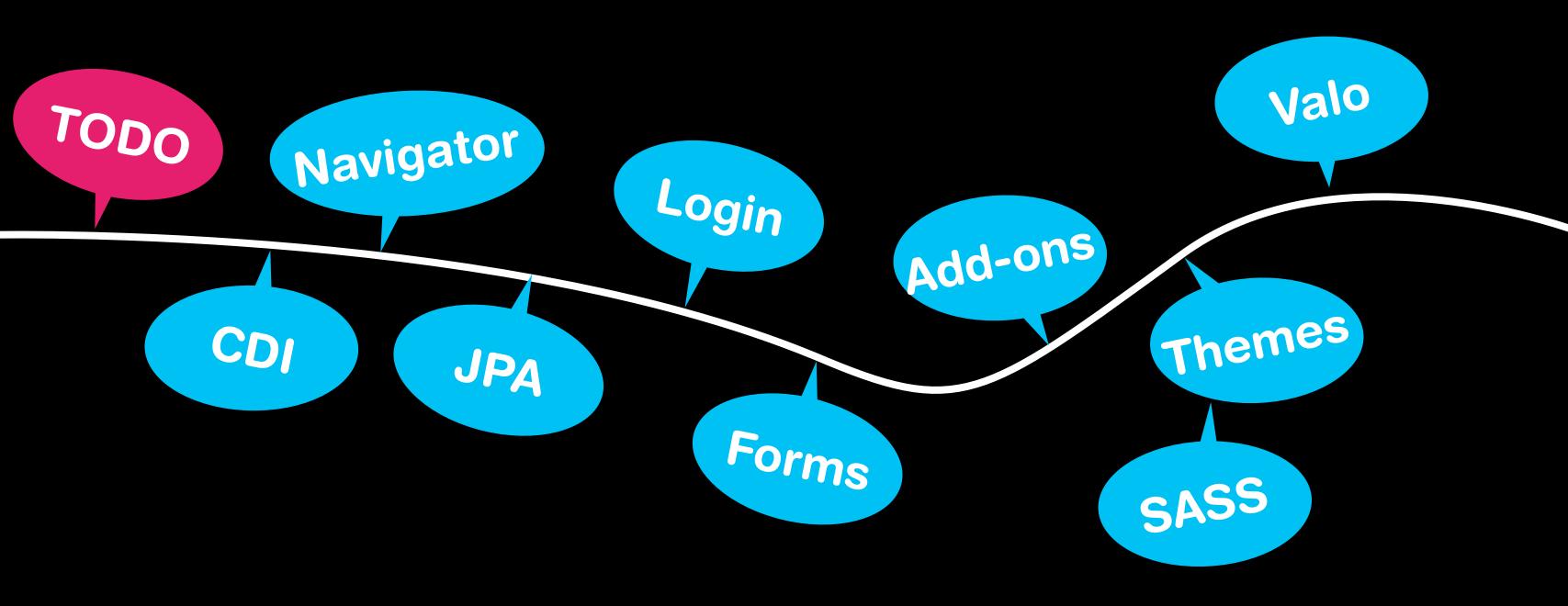vaadin }>

Learn to build full stack web apps in Java 8, JPA, CDI, responsive SCSS, ... with **Vaadin**
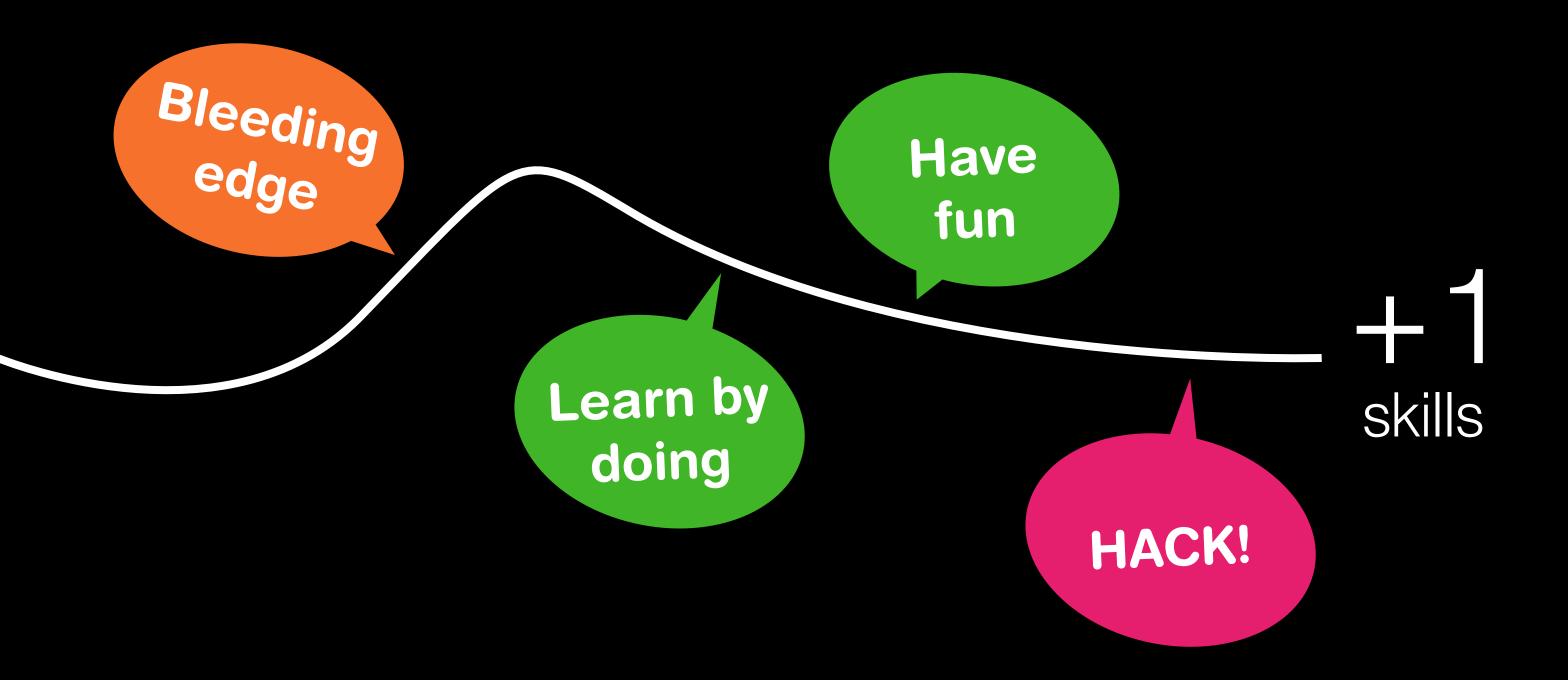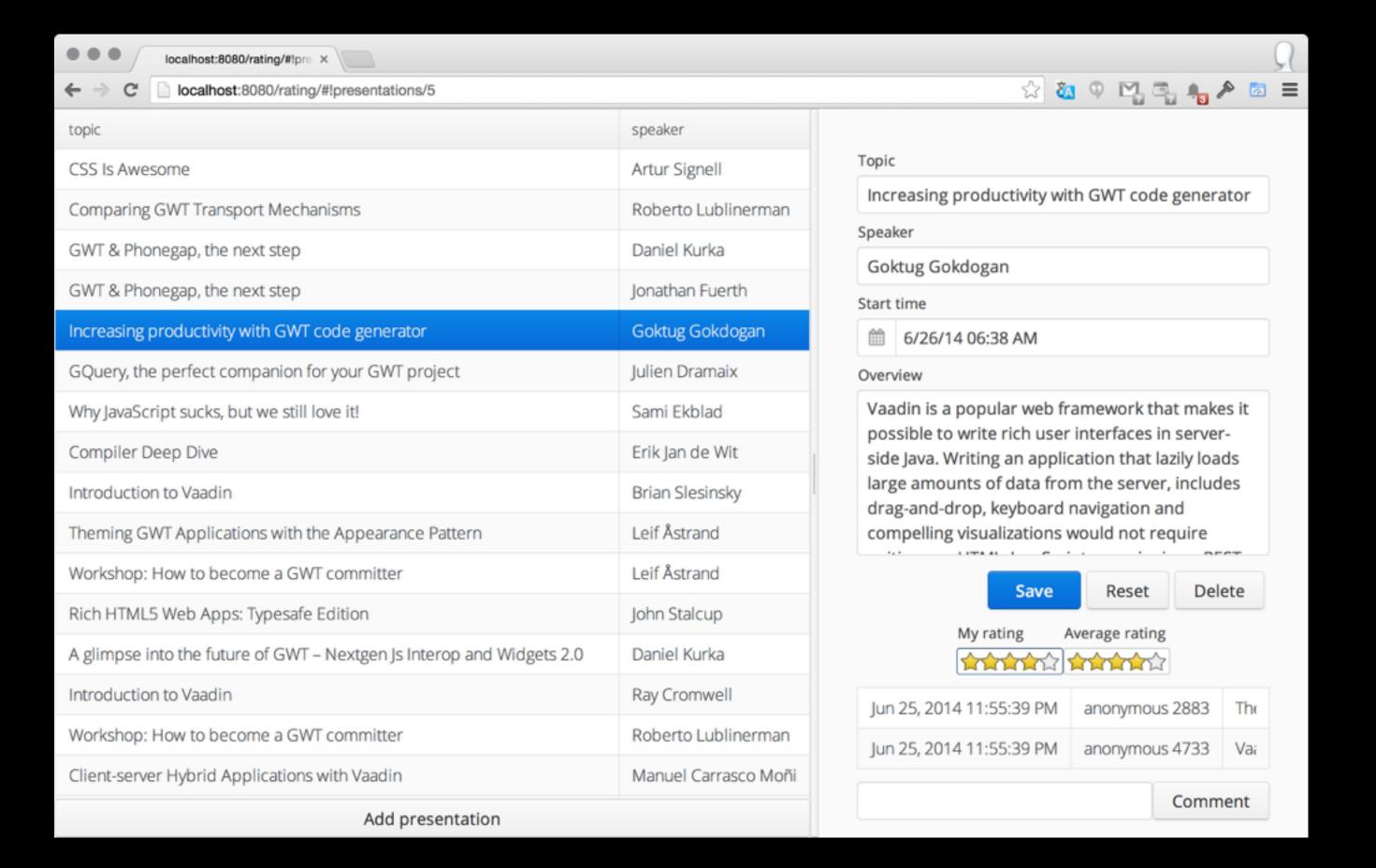
} 3h

vaadin }>

Source & these slides

https://github.com/jojule/rating

Questions?

#NightHacking #vaadin

vaadin }>

Shopping list…

Java 8
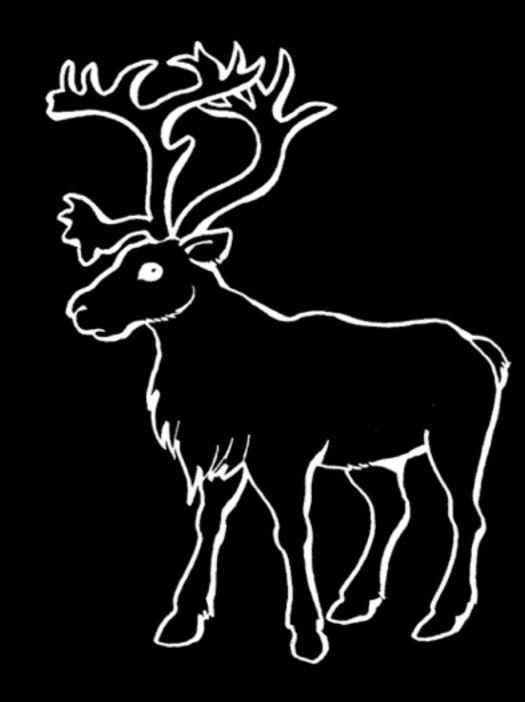
IDE - Netbeans 8.0 | IntelliJ 13 | Eclipse 4.4
The latest one with Java 8 support needed

JEE6 server - TomEE 1.7.0 | Glassfish 4.0.1 | Wildfly 8.1

➡ Download now
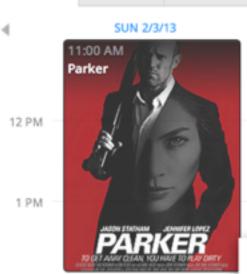
User interface framework for rich web **applications**

vaadin }>

Calendar   Catalog

SUN 2/3/13   MON 2/4/13   TUE 2/5/13   WED 2/6/13   THU 2/7/13   FRI 2/8/13   SAT 2/9/13

12 PM

1 PM

11:00 AM
Parker

11:00 AM
The Last Stand

11:00 AM
Gangster Squad

11:00 AM
The Guilt Trip

11:00 AM
Les Miserables

11:00 AM
Mama

11:00 AM
A Haunted House

2 PM

2:17 PM
Broken City

3 PM

4 PM

5 PM
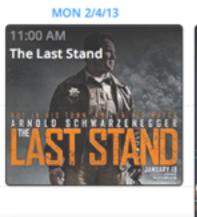
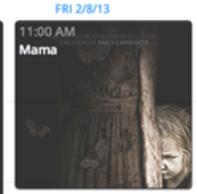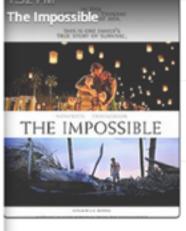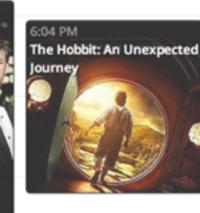**Les Miserables**

Date   07-00-2013
Starts   11:00 AM
Ends   01:50 PM
Duration   170 minutes
Synopsis   Set against the backdrop of 19th-century France, Les
            Miserables tells an enthralling story of broken dreams and
            unrequited love, passion, sacrifice and redemption-a
            timeless testament to the survival of the human spirit.
            Jackman plays ex-prisoner Jean Valjean, hunted for decades
            by the ruthless policeman Javert (Crowe) after he breaks
            parole. When Valjean agrees to care for factory worker
            Fantine's (Hathaway) young daughter, Cosette, their lives
            change forever. In December 2012, the world's longest-
            running musical brings its power to the big screen in Tom
            Hooper's sweeping and spectacular interpretation of Victor
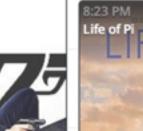   Hugo's epic tale. -- (C) Universal

1:52 PM
The Impossible

2:29 PM
Gangster Squad

6 PM

6:23 PM
Parental Guidance

Close

5:49 PM
Broken City

6:04 PM
The Hobbit: An Unexpected
Journey

7 PM

8 PM

8:24 PM
Parental Guidance

Skyfall

8:23 PM
Life of Pi

9 PM

8:53 PM
Zero Dark Thirty

A HAUNTED
HOUSE

SKYFALL
007

LIFE of PI

8:39 PM
The Impossible

Developer Productivity **+** **Rich UX**
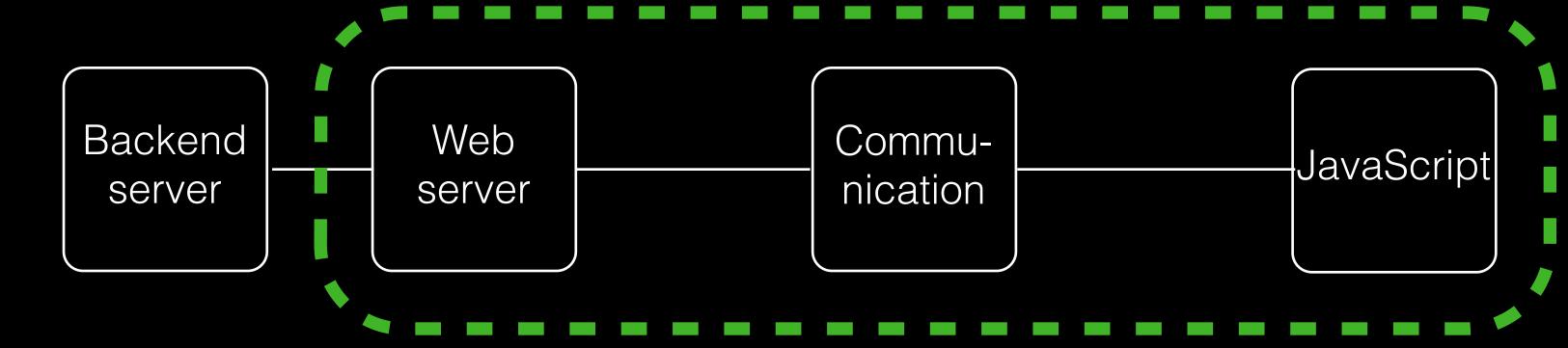
java } html >
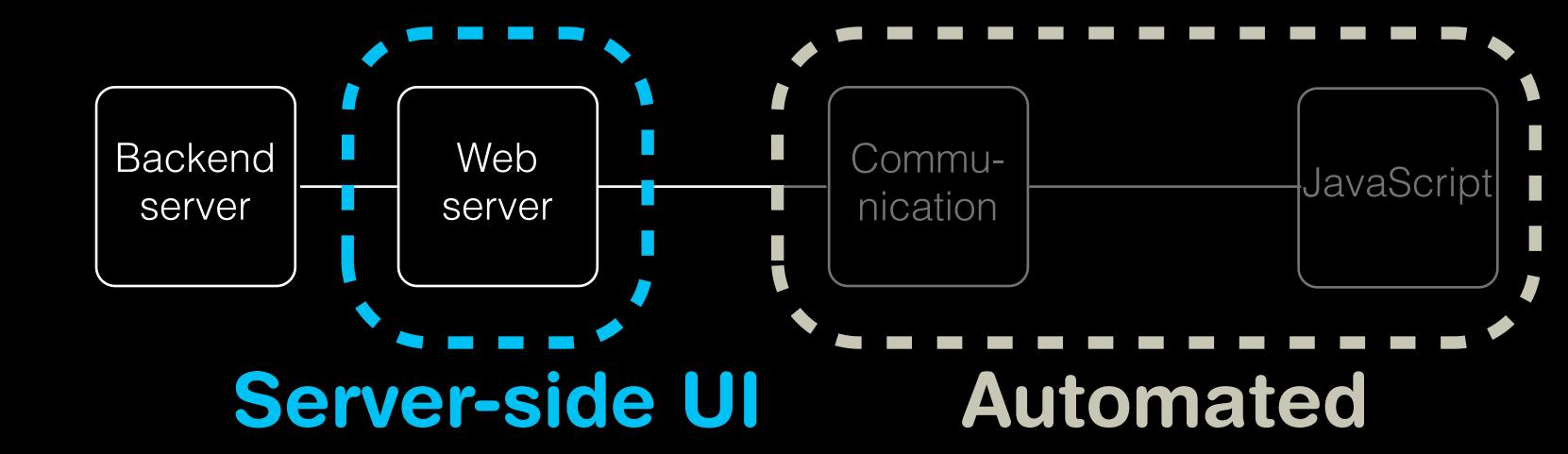
Web application layers

Client-side UI


```
Backend server — Web server — Commu-nication — JavaScript
```

vaadin }>

Web application layers

Backend server — Web server | Communication — JavaScript
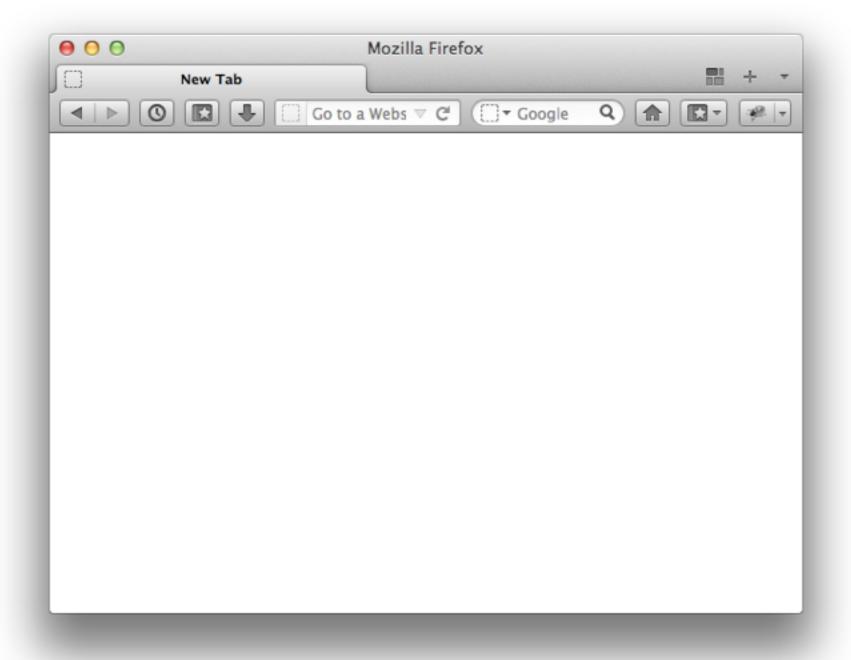
Server-side UI | **Automated**

How does server-side UI work, really?

vaadin }>

```java
TextField name = new TextField("Name");
Button greetButton = new Button("Greet");

layout.addComponents(name, greetButton);

greetButton.addClickListener(
        e -> Notification.show("Hi " + name.getValue()));
```

vaadin }>

- Initial HTML
- CSS (theme)
- Images
- JavaScript

1.2M total
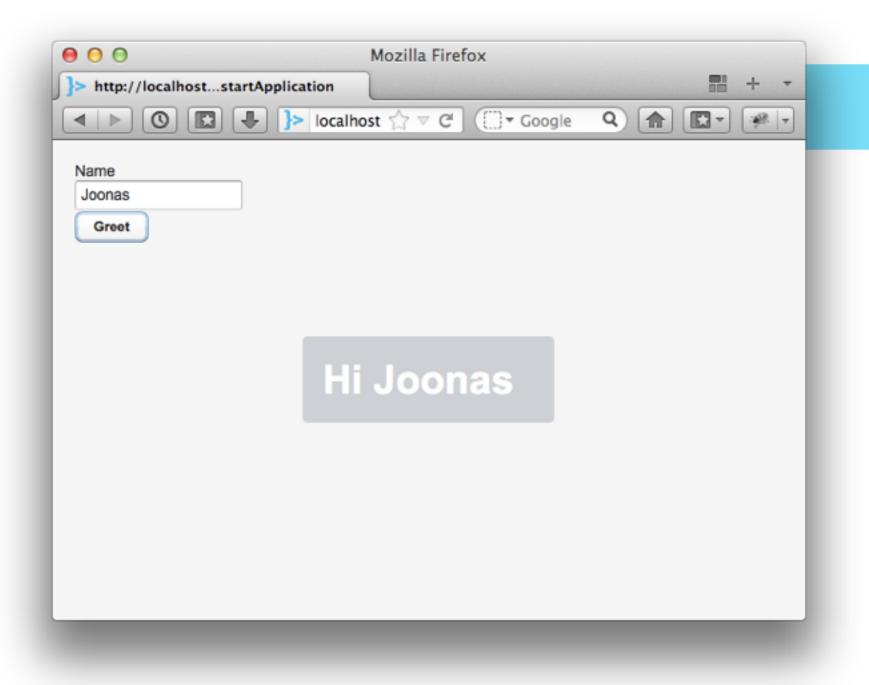
↓ compress

307k

↓ reduced widgetset

135k

- name="Joonas"
- button clicked

261 bytes

vaadin }>

```java
TextField name = new TextField("Name");
Button greetButton = new Button("Greet");

layout.addComponents(name, greetButton);

greetButton.addClickListener(
        e -> Notification.show("Hi " + name.getValue()));
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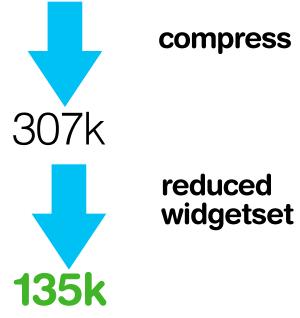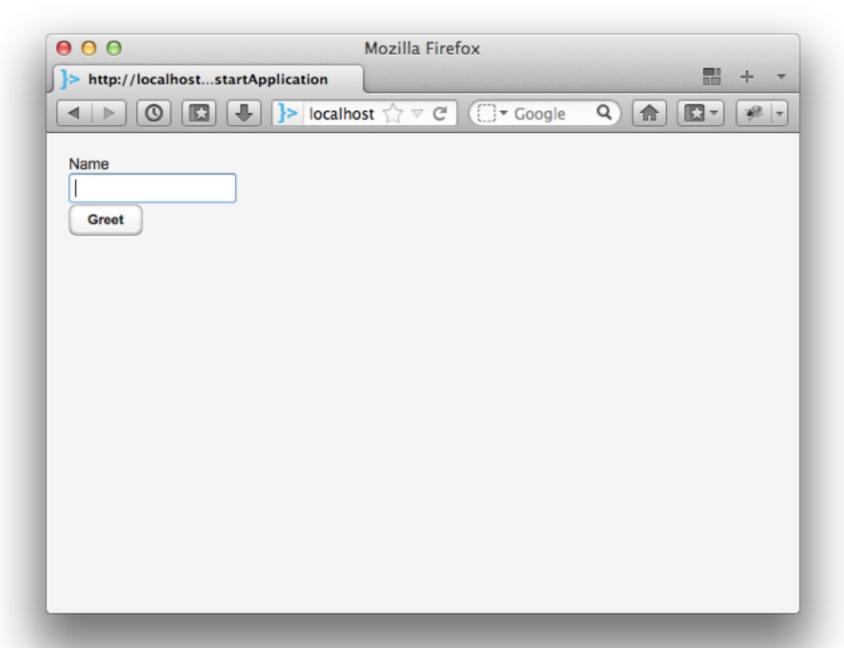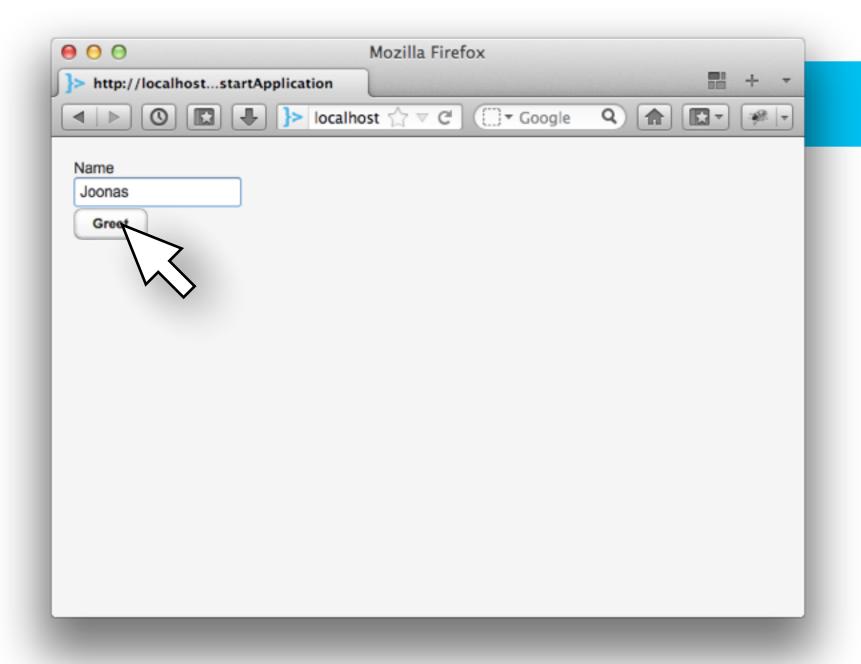
vaadin }>

- name="Joonas"
- button clicked

261 bytes

- Add notification

267 bytes

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New in 7

Add-ons

User interface

Foundation

Data binding

Pure Java

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Any language on JVM

vaadin }>

Internet Explorer
Chrome
Firefox
Safari
Opera
iOS
Android

}

vaadin }>

No browser plugins

Nothing to install

vaadin }>

Servlet
Portlet
(most) **clouds**
...

Anything Java

}

vaadin]>

Eclipse
IntelliJ IDEA
Netbeans
Maven / Gradle / Ant
. . .

Anything Java

vaadin }>
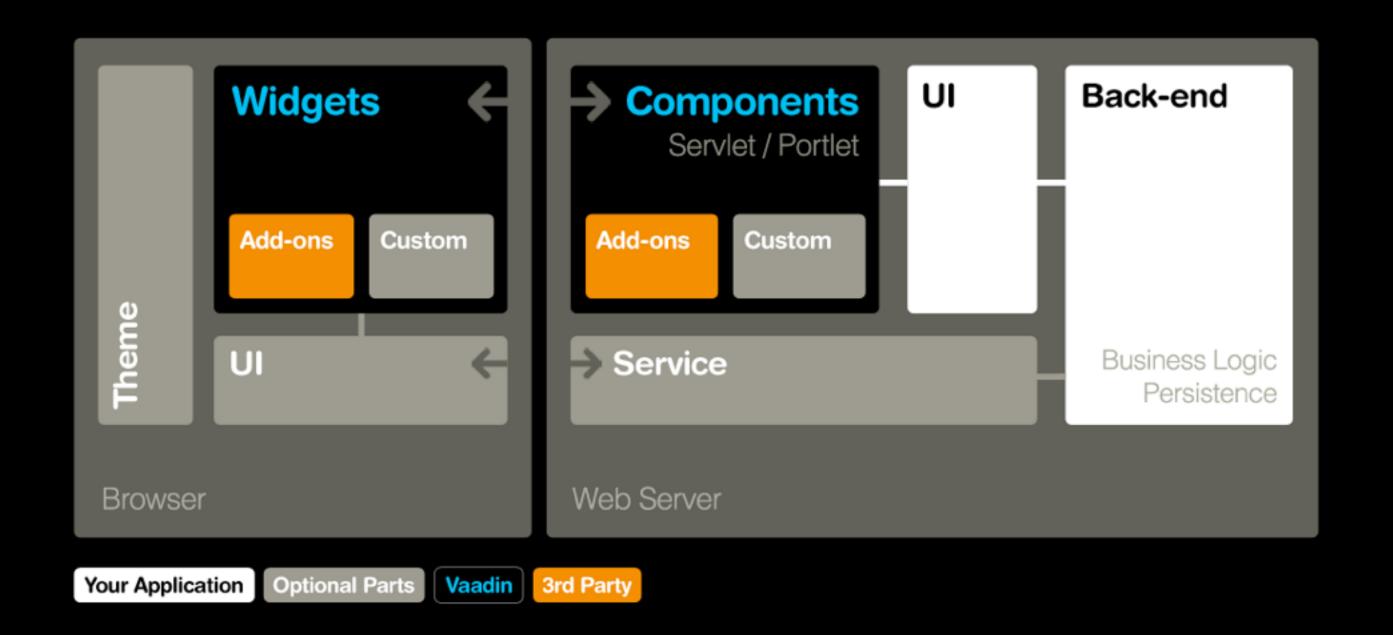
Java EE
Spring
OSGi
REST
. . .

Anything Java
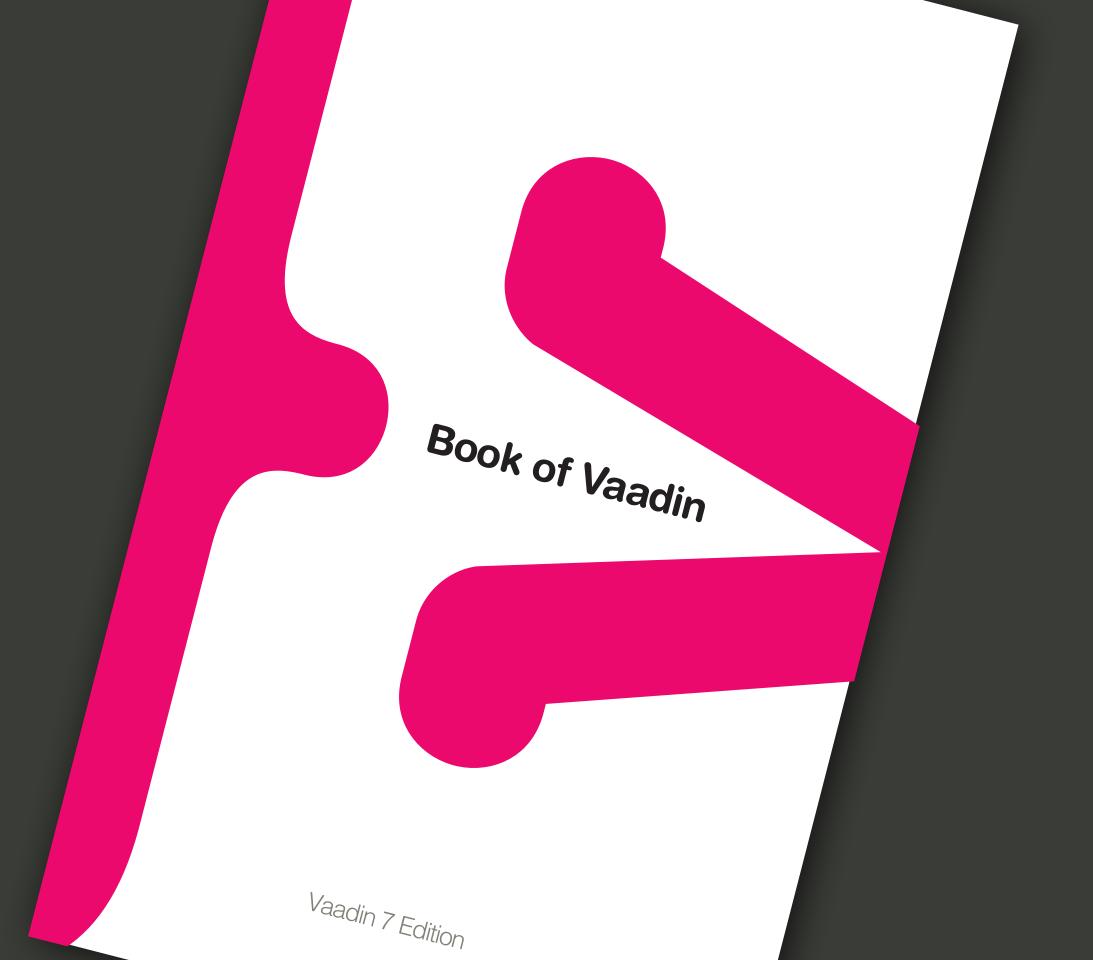
vaadin }>

Architecture

vaadin]>

Book of Vaadin

Vaadin 7 Edition

Apache License

LETS
HACK

Step 0: Hello World!

Source

https://github.com/jojule/rating

Branch

step-0

Challenge: TODO

vaadin }>

Get the tools ✖

git clone ✖

Figure it out :) ✖

✚

Source
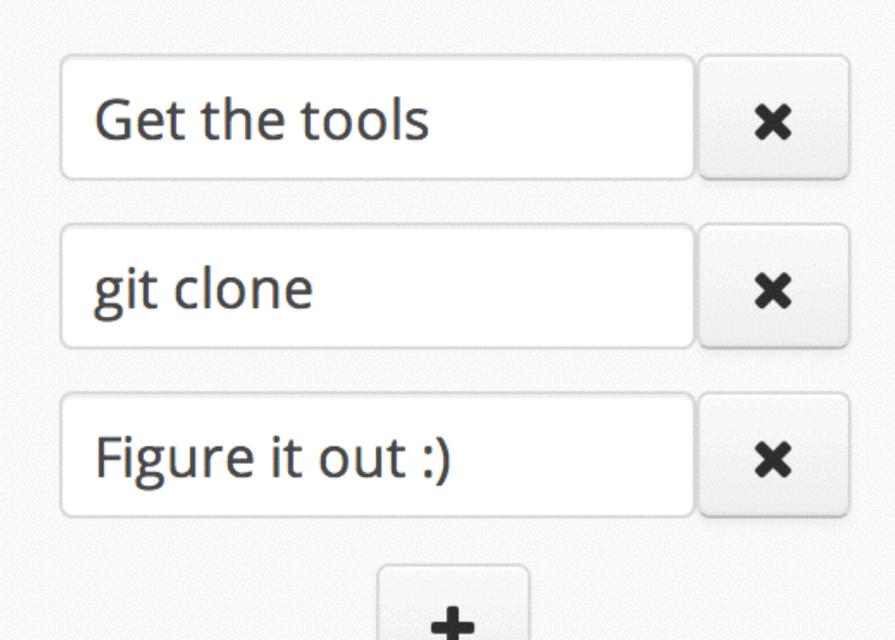
https://github.com/jojule/rating

Branch (if you really need to cheat)

step-0-todo

vaadin }>

Step 1: CDI & JPA

vaadin }>

Source

https://github.com/jojule/rating

Branch

step-1-cdi

vaadin }>

Source

https://github.com/jojule/rating

Branch

step-1

vaadin }>

Step 2: Login

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Source

https://github.com/jojule/rating

Branch

step-2

vaadin]>

Step 3: Form

vaadin }>

Source

https://github.com/jojule/rating

Branch

step-3

vaadin }>

Step 4: Add-ons

vaadin]>

Source

https://github.com/jojule/rating

Branch

step-4

vaadin }>

Step 5: Responsive

Source

https://github.com/jojule/rating

Branch

step-5

vaadin }>

Step+: Valo

vaadin]>

Source

https://github.com/jojule/rating

Branch

valo

vaadin }>

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@joonaslehtinen