

Digitizing Fintech

Vaadin + Liferay Portlet Showcase

Ryerson University – March 15 2017

CONNECTED PEOPLE & OBJECTS

COOPERATION & SUSTAINABLE
DEVELOPMENT

DIGITAL ECONOMY & INNOVATION



Download the VM

Download it now if you haven't already (link on the slip). (~4.4 GB)

Estimations for the download time (let's hope for 100+)

10 Mbps 1hr

24 Mbps 26min

100 Mbps 7min

Schedule

Vaadin Overview

Importing VM

Architecture of Our Solution

Hands On Programming

Deploying on the Cloud

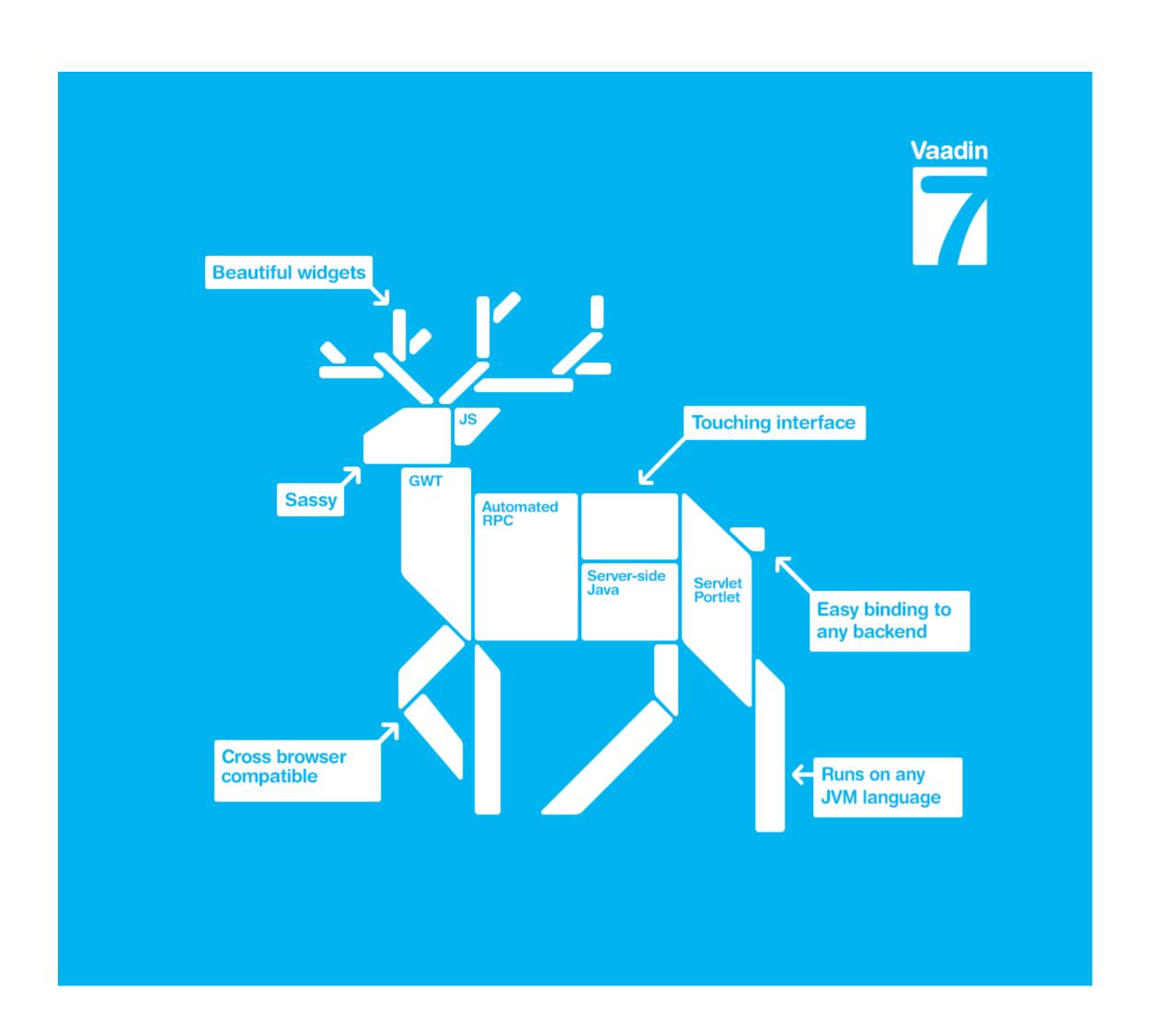
Homework/Contest



vaadin>



Vaadin Overview



Benefits

Open Source (Apache 2)
Written in Java (any JVM language works)
Extensible from Java or HTML ends
Large community with add-ons and extensions
Works well with Liferay (maven)

Who's Using Vaadin?

150K Developers Worldwide 40% of Fortune-100 Companies (Puma, CGI)

Importing VM

Oracle VM VirtualBox

- 1. File > Import Appliance
- 2. Select the .ova file
- 3. Next / Import as necessary
- 4. Double click to start it up
- 5. It might be necessary to change some virtualization settings (Windows users
- check the internet for your laptop model and what to change)
- 5. Password is ubuntu (on the slip)
- 6. Let's open up Intellij IDEA on the left menubar in preparation



Architecture of Our Solution

Master Server (with REST API)

Small REST API using <u>Apache Jersey</u> running on <u>Tomcat 7</u> written in <u>Java 8</u>

/rest/quote/add/

Liferay 6.2 CE (packaged with Tomcat 7)

The platform gives us a place for all of our content, the application server, and loads of APIs and abilities such as ACL.

Vaadin Portlet (Insurance Portlet)

Written in <u>Java 8</u>, interacts with our REST API and with Liferay using the exposed APIs.

Development tools and techniques used to build portlet:

- Analysis of Requirements + Considerations about Domain - Fundamentals of OOP + Design - Maven - Vaadin Designer for HTML/CSS Abstraction

Let's Dive In

- 1. Filling in the missing methods from here (as found on your VM): https://github.com/mkgorshkov/Ryerson_Presentation_March15_Learning So that it looks similar to the finished portlet here: https://github.com/mkgorshkov/Ryerson_Presentation_March15.
- 2. Creating a new page in Liferay.
- 3. Compiling our project with Maven.
- 4. Transferring and deploying our files on the cloud.
- 5. Adding the new portlet to the page we created.

Homework / Contest

~ 24 hours to generate data

1. At 3pm tomorrow (Thursday March 16th) the data will be available in a CSV file:

http://158.69.91.1:8080/ryerson_insurance_demo.csv

2. Data will be available on the fly through a REST call, before then (format not guaranteed):

http://158.69.91.1:8080/rest/datastore/getData/X-SECRET-RYERSON

- 3. Take the data and expand your portlet or create a new portlet to do something with it? Suggestions: create a chart, some sort of visualizations to see certain trends? If you're not sure about Vaadin, look into the docs.
- 4. Send me a link to your github account by Monday March 20th 9am. The project which has the most creative and technical components will win a Savoir-Faire Linux shirt and an interview for our summer internship program!

