Eclipse Scout

The new Java Web-framework

Olav.Lenz @ bsi-software.com

Agenda

- What's **Scout**
- **16 Years** of technology
- **Java**: Building with Maven
- **HTML5**: Themes and Styling

Eclipse Scout

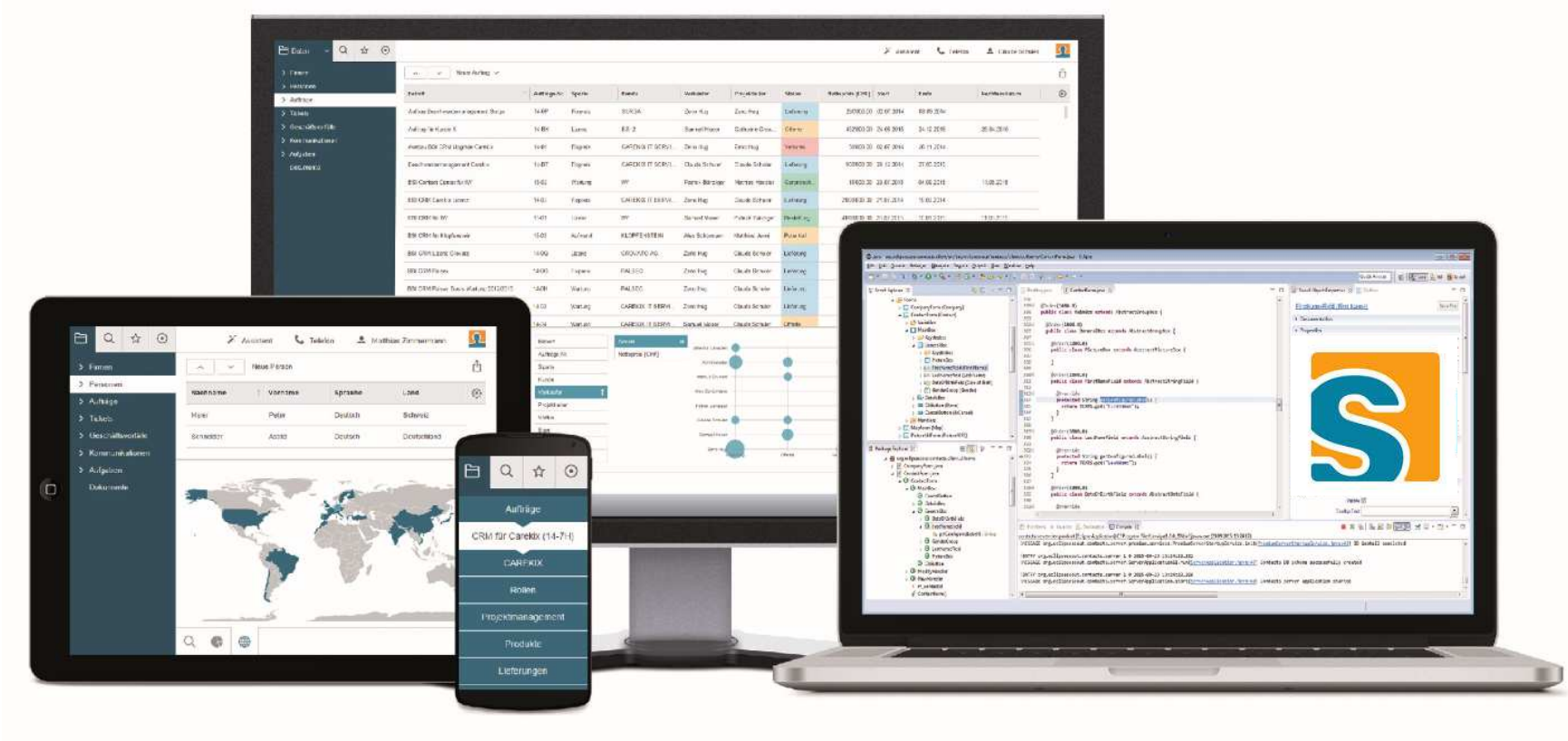
Scout Framework

- ➔ Built for **Business Applications**
- ➔ **Multi Device** support
- ➔ Based on **Java** and **HTML5, CSS3, JS**

Framework Goals

- ➔ **Long term** strategy (enterprise apps live > 10 years)
- ➔ Boosts **productivity** (producing software in Switzerland …)
- ➔ **Easy** to learn (new team members productive in 1-2 weeks)

Eclipse Scout
Neon Release



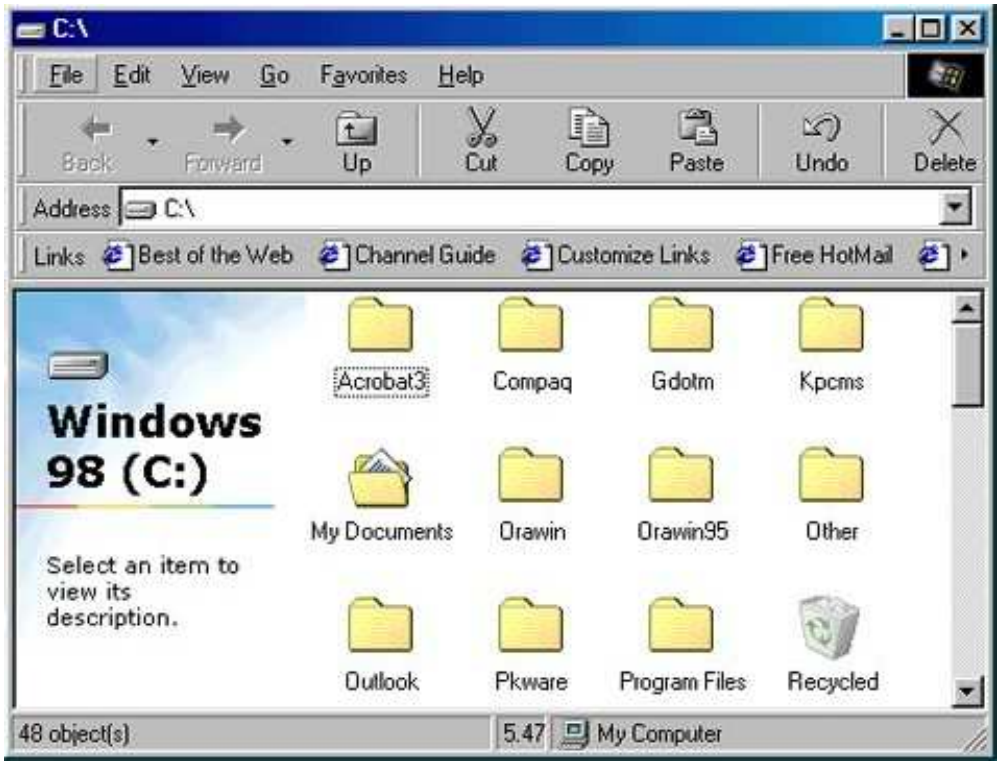
Back to the Future …

Let’s go back to …

… 1999

Google!
BETA
Search the web using Google!
Google Search
I'm feeling lucky
Special Searches
Stanford Search
Linux Search
Help!
About Google!
Company Info
Google! Logos
Get Google! updates monthly
your e-mail
Subscribe
Archive
Copyright ©1998 Google Inc.

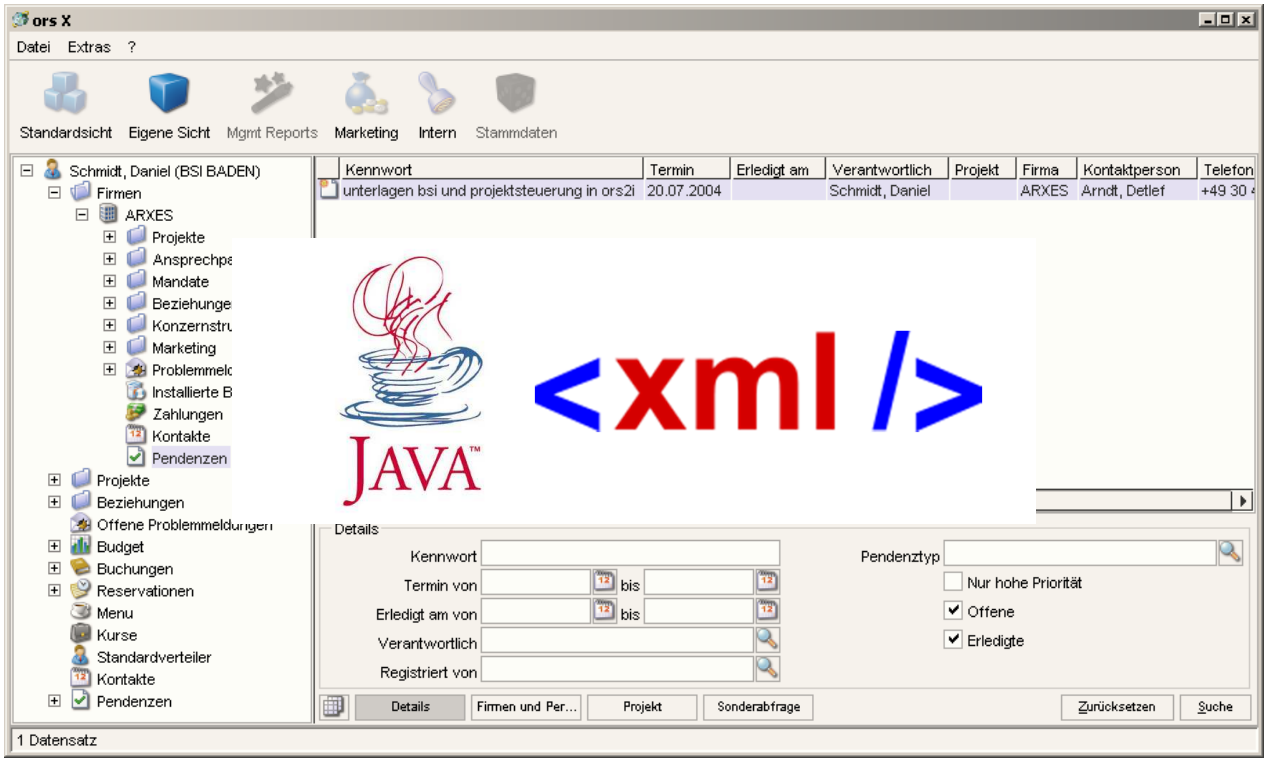
… 1999


C:\
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete
Address C:\
Links Best of the Web Channel Guide Customize Links Free HotMail
Windows 98 (C:)
Select an item to view its description.
Acrobat3
Compaq
Gdoltm
Kpcms
My Documents
Orawin
Orawin95
Other
Outlook
Pkware
Program Files
Recycled
48 object(s)
5.47
My Computer

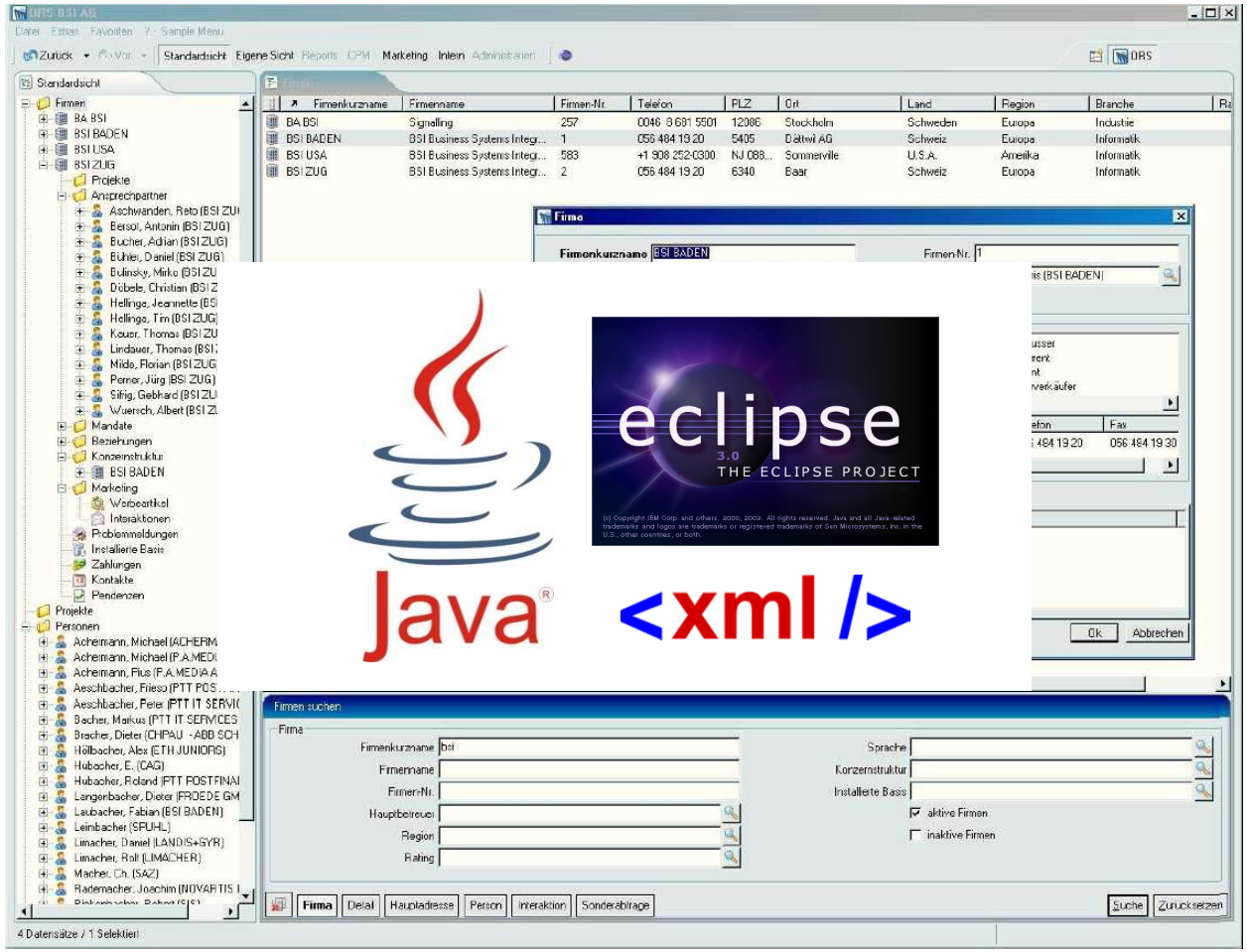
… 1999

ors2i
Datei Extras Tools ?
Standards
Firmen
BA
BS
BS
Installierte Basis
Zahlungen
Kontakte
enkurzname
USA
USA
USA
AG
USA
USA
NUM
GUPTA
SQLWindows®
WARNING: This program is protected by copyright laws and international treaties. Unauthorized duplication or distribution may result in severe civil or criminal penalties, and will be prosecuted to the fullest extent possible by law.
Copyright ©1987-95 Gupta Corporation. All rights reserved.

… 2002


ors X
Datei Extras ?
Standardsicht
Eigene Sicht
Mgmt Reports
Marketing
Intern
Stammdaten
Schmidt, Daniel (BSI BADEN)
Firmen
ARXES
Projekte
Ansprechpa
Mandate
Beziehunge
Konzernstru
Marketing
Problemmeld
Installierte B
Zahlungen
Kontakte
Pendenzen
Projekte
Beziehungen
Offene Problemmeldungen
Budget
Buchungen
Reservationen
Menu
Kurse
Standardverteiler
Kontakte
Pendenzen
Kennwort
Termin
Erledigt am
Verantwortlich
Projekt
Firma
Kontaktperson
Telefon
unterlagen bsi und projektsteuerung in ors2i
20.07.2004
Schmidt, Daniel
ARXES
Arndt, Detlef
JAVA™
<xml />
Details
Kennwort
Termin von
bis
Erledigt am von
bis
Verantwortlich
Registriert von
Pendenztyp
Nur hohe Priorität
Offene
Erledigte
Details
Firmen und Per…
Projekt
Sonderabfrage
Zurücksetzen
Suche
1 Datensatz

… 2005


eclipse
3.0
THE ECLIPSE PROJECT
Java®
<xml />
Firma
Firmenkurzname
Firmen-Nr.
Ok
Abbrechen
Firmen suchen
Firma
Firmenkurzname
Firmenname
Firmen-Nr.
Hauptbetreuer
Region
Rating
Sprache
Konzernstruktur
Installierte Basis
aktive Firmen
inaktive Firmen
Firma
Detail
Hauptadresse
Person
Interaktion
Sonderabfrage
Suche
Zurücksetzen

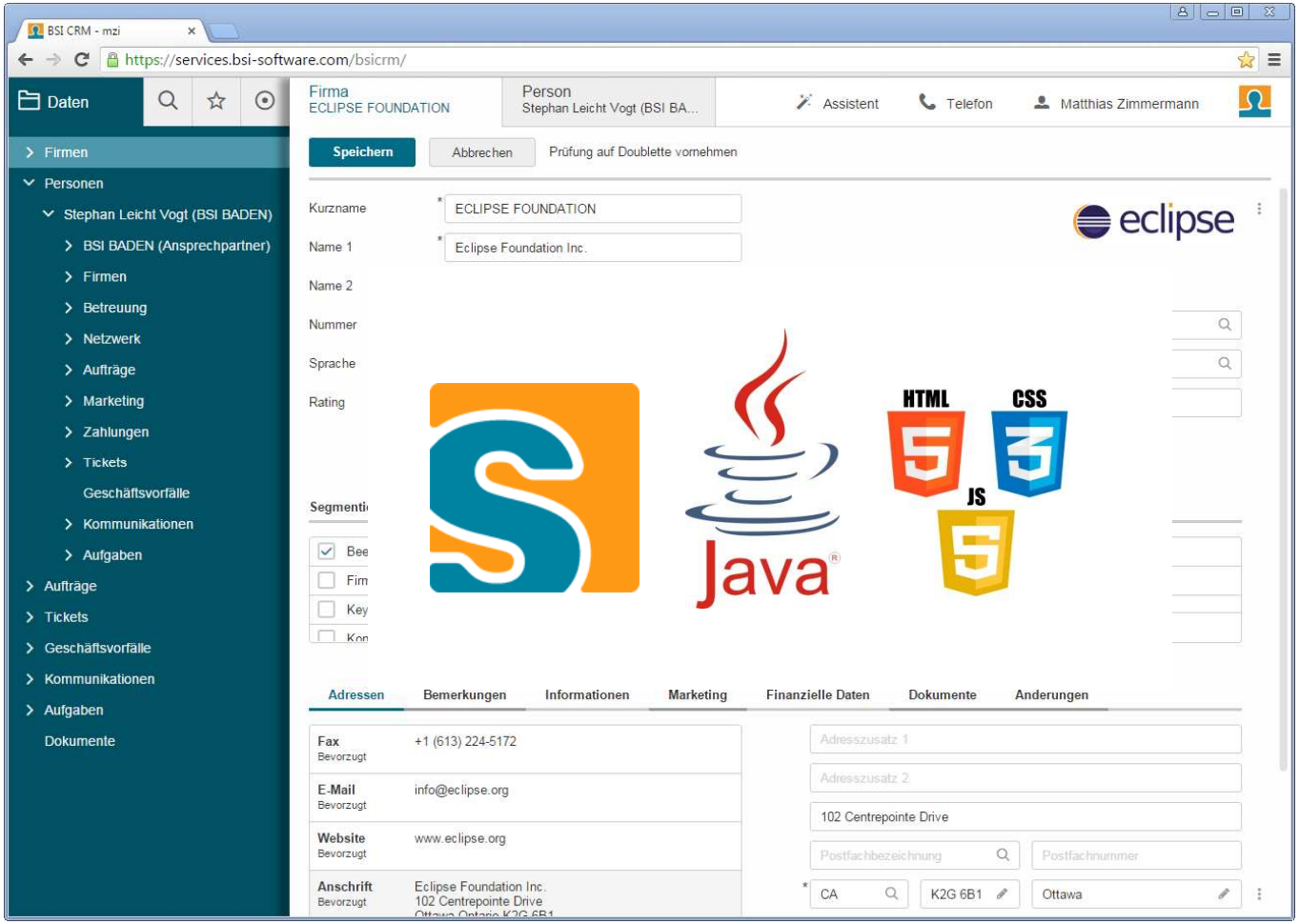
… 2007

BSI CRM
Datei Extras Prozesse Favoriten ?
Standardsicht Eigene Sicht Reports CPM Marketing Contact Center Human Resources Administration Schnittstellen
Contact Center
Geschäftsvorfälle
Alle
Eigene
<Nicht identifiziert>
Hug, Daniel (I-SOLUTIONS)
Eskalierte
Know-How
Virtuelle Teams
Prozessverwaltung
Statistiken
Telefon
Prozess wählen - 11.04.09 11:25
Detail
Nachname
Vorname
PLZ
Ort
1 Person wählen
2 Kundenübersicht
3 Kundenidentifikation
4 Prozess wählen
5 Prozessschritte unbekannt
Java
eclipse
GALILEO
Abbrechen
Weiter
Abschliessen

Eclipse Scout 2011

Eclipse Scout 2012

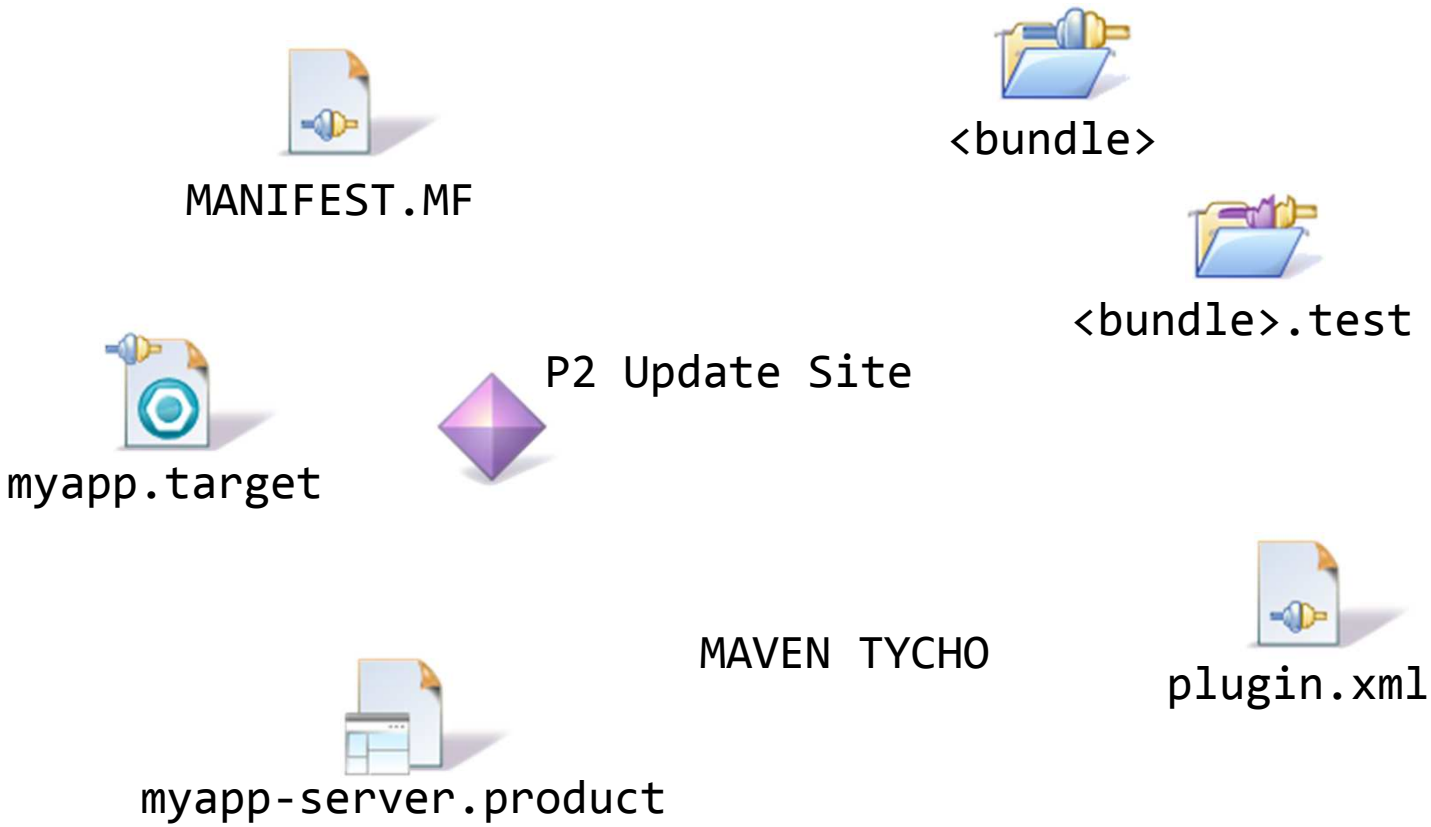
Eclipse Scout 2015/16



Eclipse Scout Neon

Java: Building with Maven

Once upon a time…



Standard Maven Project

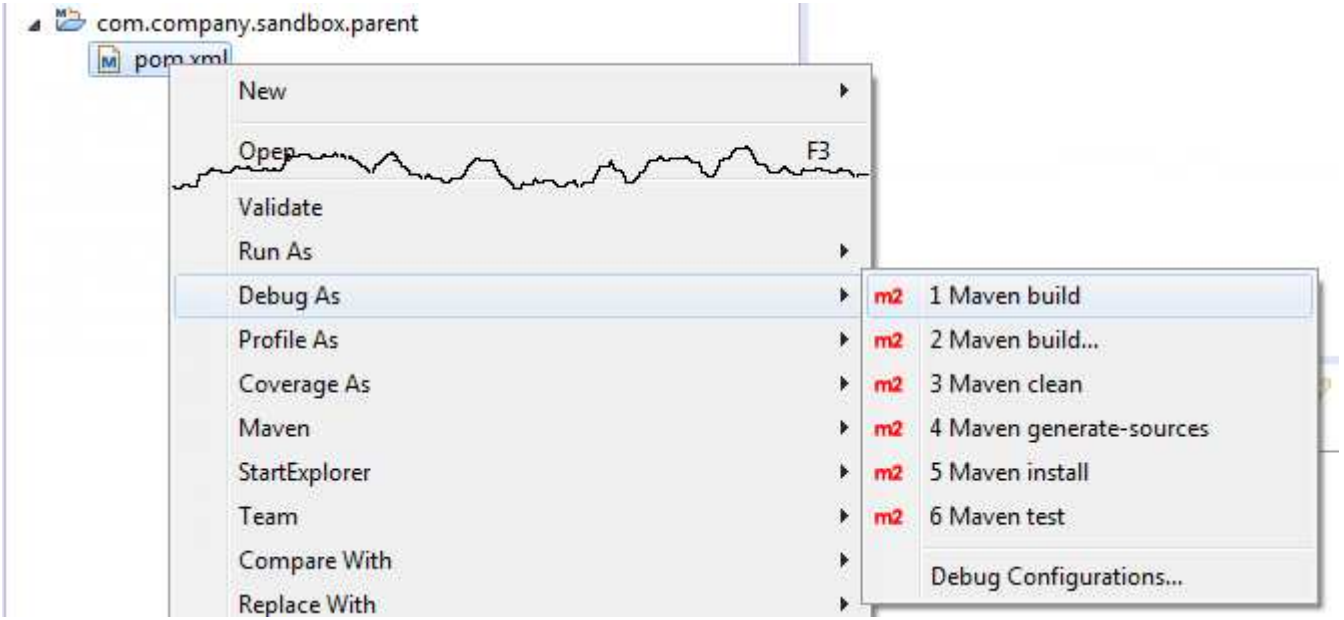
→ {project name}
→ {project name}.server
→ {project name}.shared
→ {project name}.client
→ {project name}.ui.html

→ {project name}.server.app.dev
→ {project name}.ui.html.app.dev

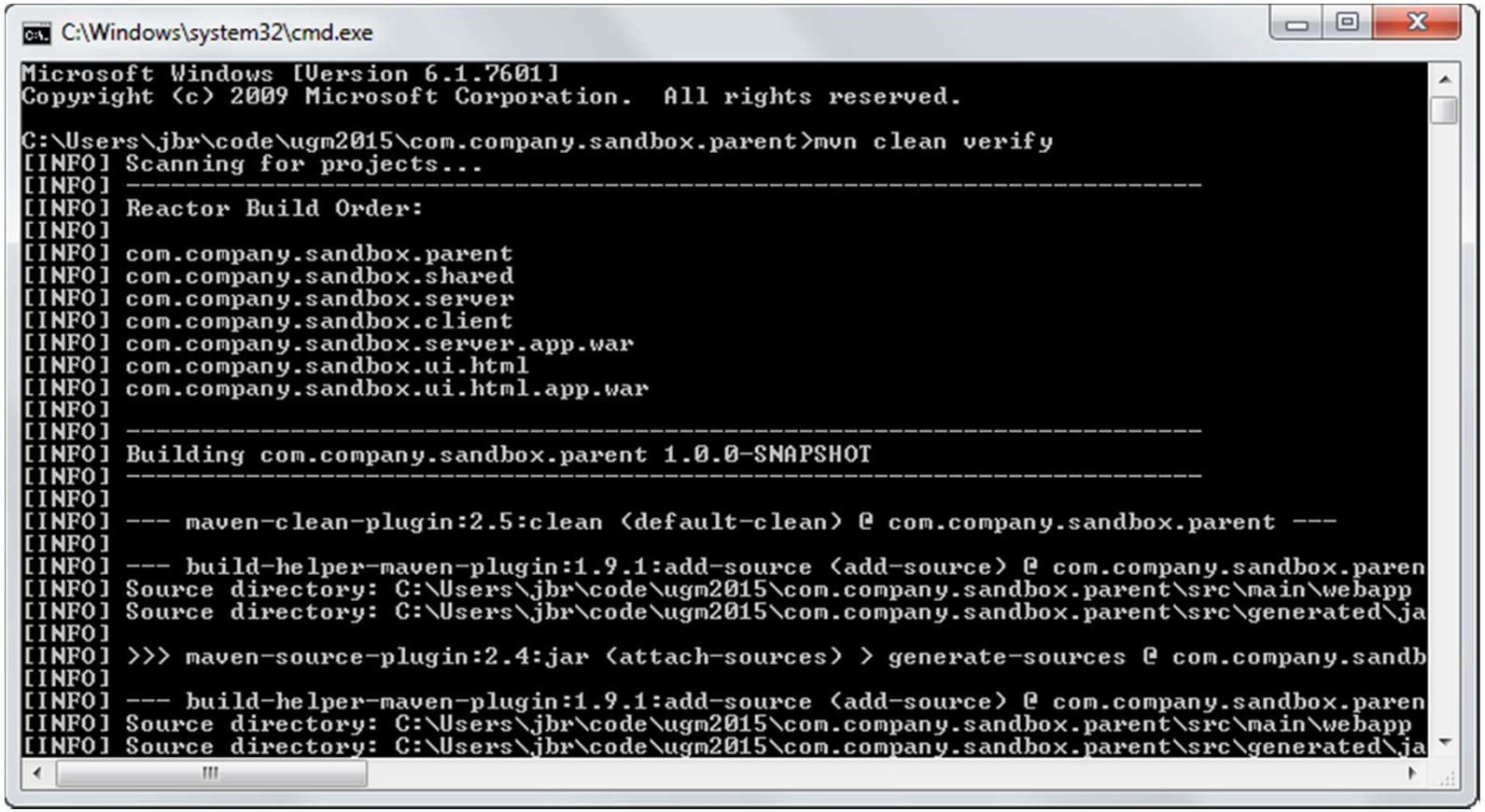
→ {project name}.server.app.war
→ {project name}.ui.html.app.war

Maven Integration for Eclipse
m2e

➔ Works as expected



Maven CLI


C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\jbr\code\ugm2015\com.company.sandbox.parent>mvn clean verify
[INFO] Scanning for projects...
[INFO] --
[INFO] Reactor Build Order:
[INFO]
[INFO] com.company.sandbox.parent
[INFO] com.company.sandbox.shared
[INFO] com.company.sandbox.server
[INFO] com.company.sandbox.client
[INFO] com.company.sandbox.server.app.war
[INFO] com.company.sandbox.ui.html
[INFO] com.company.sandbox.ui.html.app.war
[INFO]
[INFO] --
[INFO] Building com.company.sandbox.parent 1.0.0-SNAPSHOT
[INFO] --
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ com.company.sandbox.parent ---
[INFO]
[INFO] --- build-helper-maven-plugin:1.9.1:add-source (add-source) @ com.company.sandbox.paren
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\main\webapp
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\generated\ja
[INFO]
[INFO] >>> maven-source-plugin:2.4:jar (attach-sources) > generate-sources @ com.company.sandb
[INFO]
[INFO] --- build-helper-maven-plugin:1.9.1:add-source (add-source) @ com.company.sandbox.paren
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\main\webapp
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\generated\ja

Eclipse Scout Neon

HTML5: Styling and Themes

Themes and Styling with Scout

Technology

➔ **CSS3 + Less**

CSS Organisation

➔ Global Less files (colors, fonts, sizes, …)

➔ Component specific Less files (Form, Field, Button…)

➔ **Optional**: Project specific Less files

➔ **Theme**: Named set of Less files

From Less to final CSS

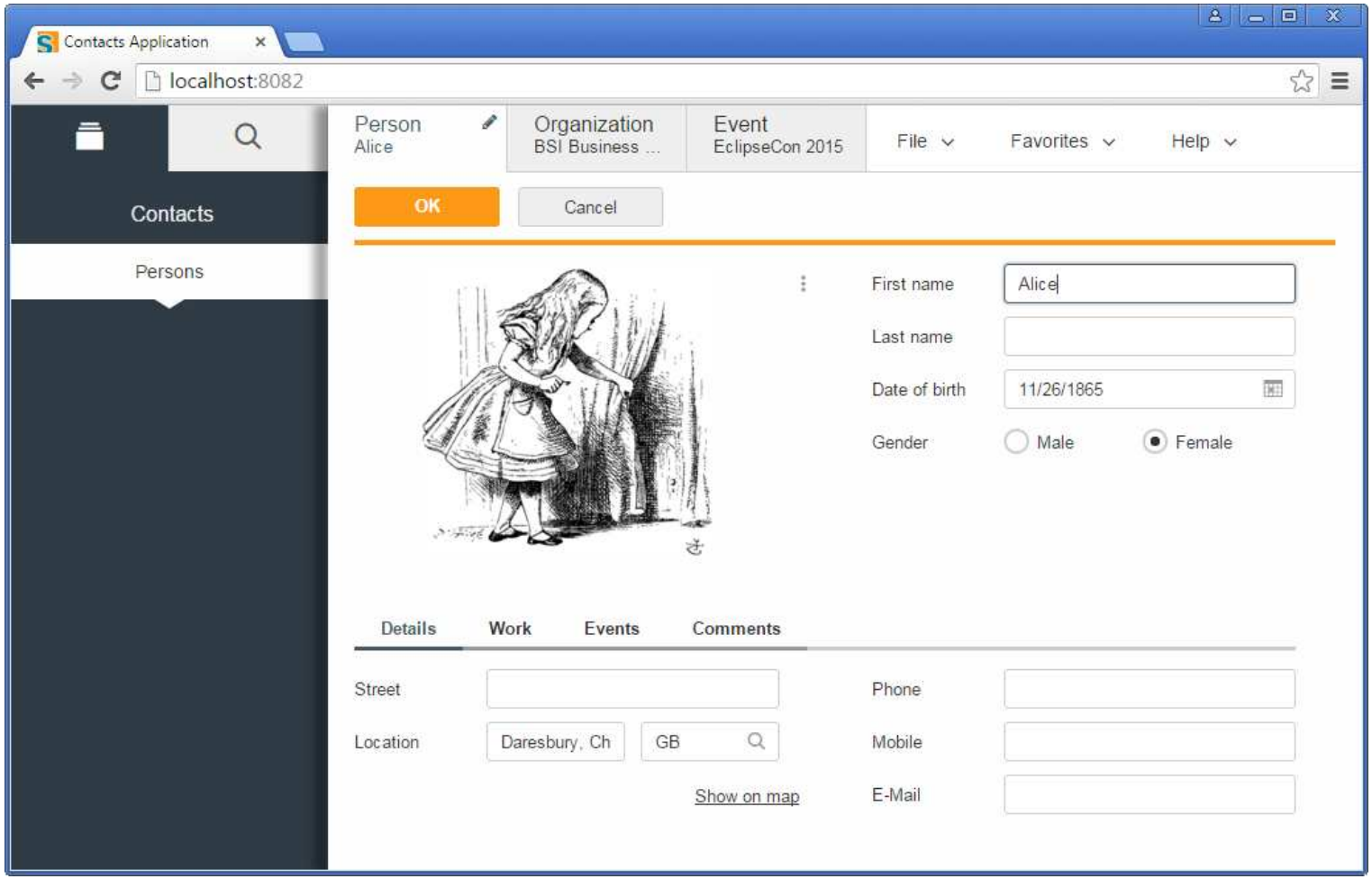
1. Assemble set of all applicable Less files
2. Process Less files and create single big CSS file
3. Minify CSS and sent it to browser

From Less to final CSS

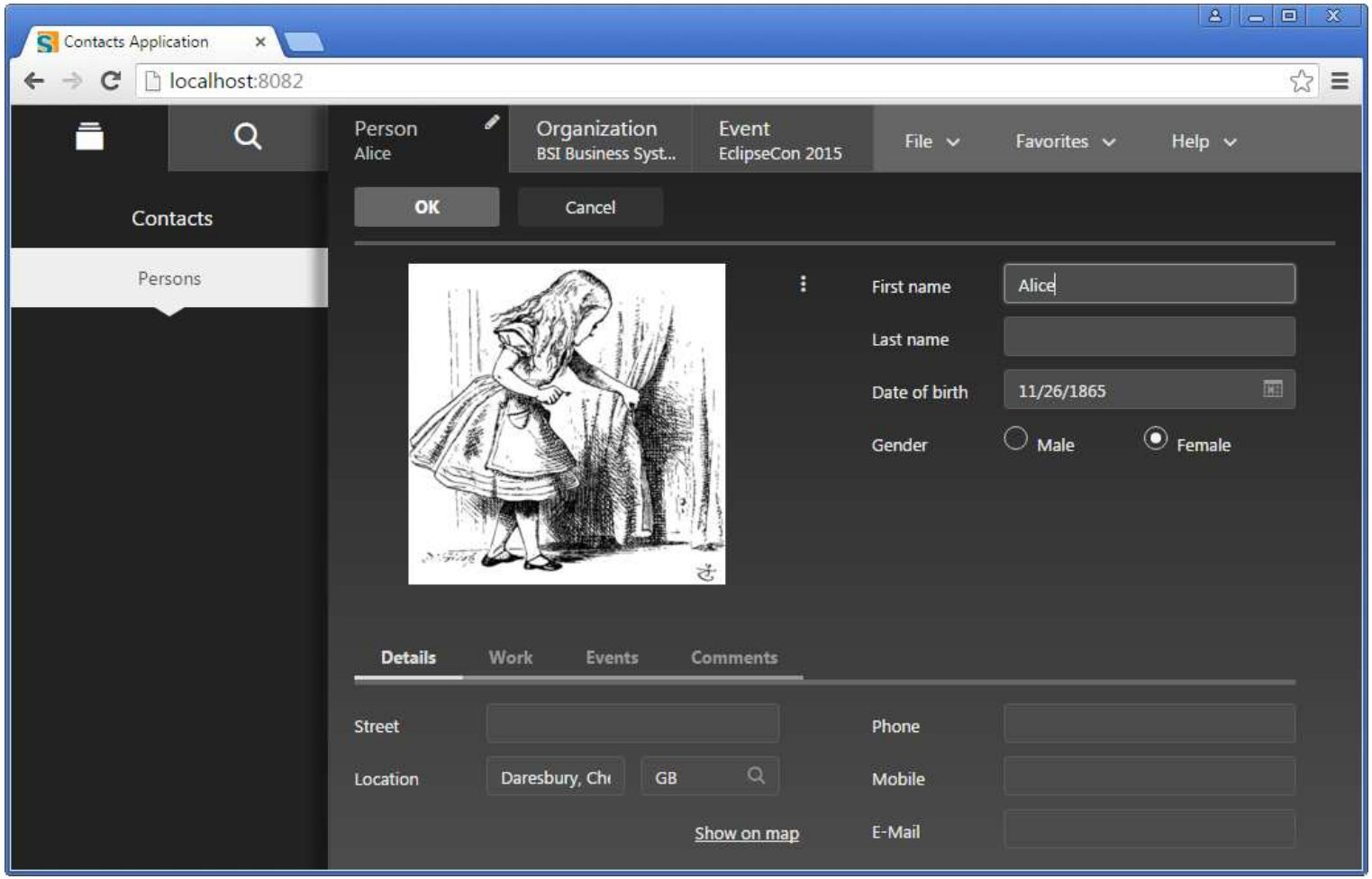
Implemented Process

1. Project specific files override Scout default
2. Assemble set of all applicable Less files
3. Process Less files and create single big CSS file
4. Minify CSS and sent it to browser

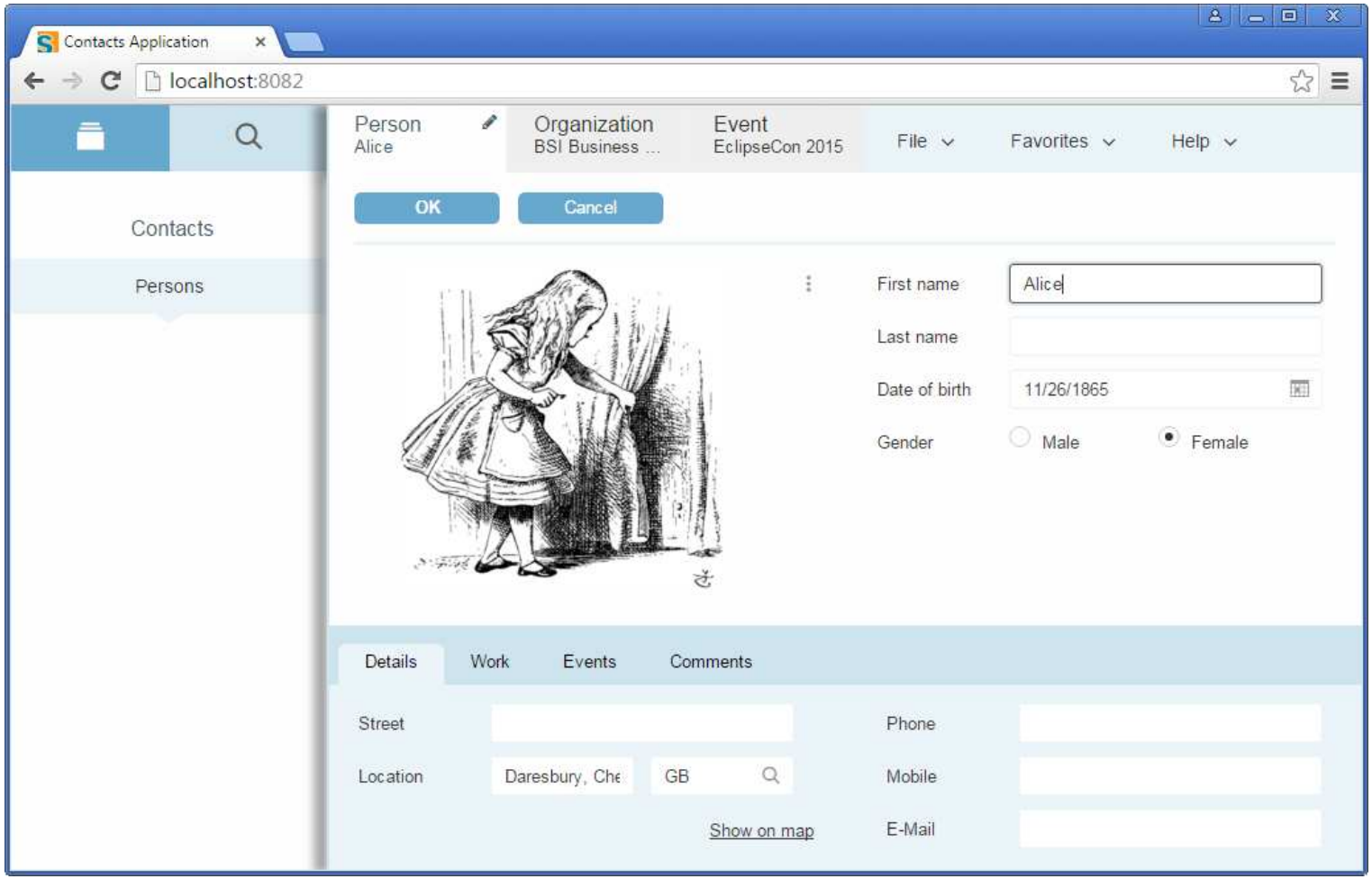
Default Theme



Dark Theme


Contacts Application
localhost:8082
Person
Alice
Organization
BSI Business Syst..
Event
EclipseCon 2015
File
Favorites
Help
Contacts
Persons
OK
Cancel
First name
Alice
Last name
Date of birth
11/26/1865
Gender
Male
Female
Details
Work
Events
Comments
Street
Location
Daresbury, Ch
GB
Show on map
Phone
Mobile
E-Mail

Rayo Theme


Contacts Application
localhost:8082
Person
Alice
Organization
BSI Business ...
Event
EclipseCon 2015
File
Favorites
Help
OK
Cancel
Contacts
Persons
First name
Alice
Last name
Date of birth
11/26/1865
Gender
Male
Female
Details
Work
Events
Comments
Street
Location
Daresbury, Che
GB
Show on map
Phone
Mobile
E-Mail

Styling

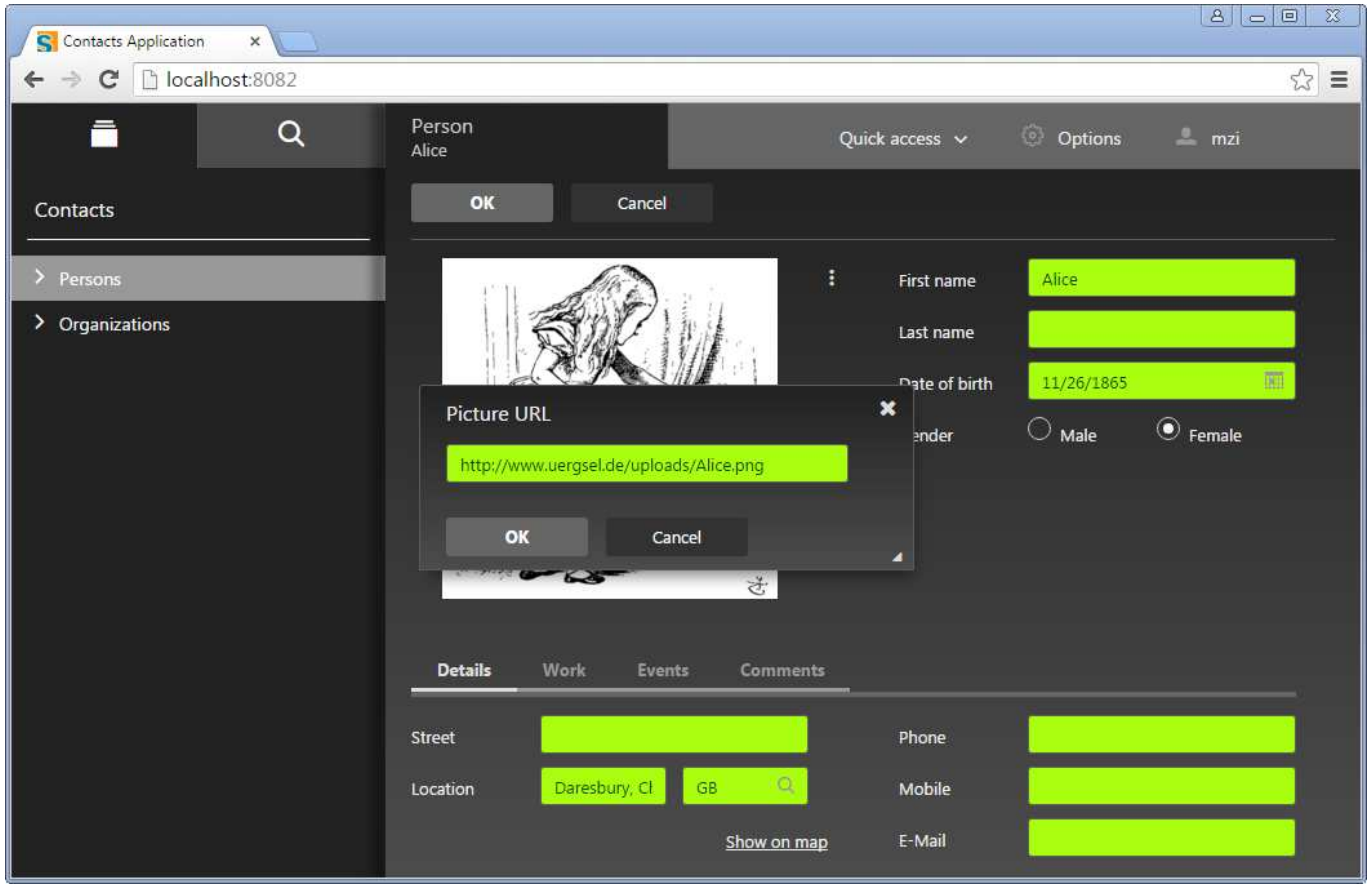
Global Styling

- ➔ Globally change application colors, fonts, …
- ➔ Simple and low effort
- ➔ **Example**: Color of data fields

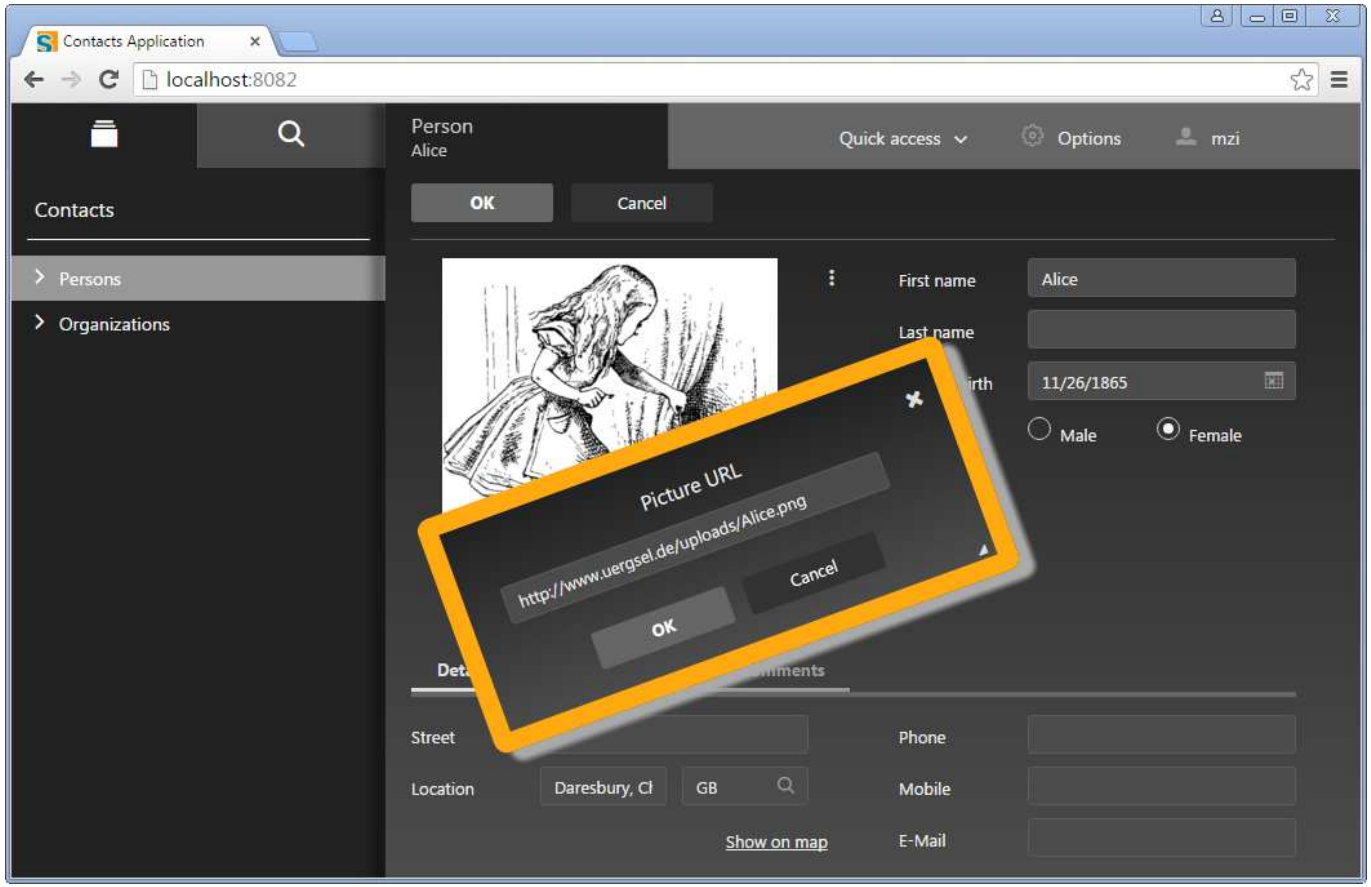
Styling of Components

- ➔ Change individual elements
- ➔ Powerful but more CSS knowledge requried
- ➔ **Example**: Appearance of dialogs

Global Styling
Colors of Data Fields



Styling of individual Component
Appearance of Dialogs



Eclipse Scout Neon

Summary

Summary – Part 1

The Scout Story

- ➔ Changes in platform technology
- ➔ Many Changes in UI technology
- ➔ Product code was never thrown away for 15 years

What can Scout do for you?

- ➔ Help to efficiently implement business apps
- ➔ Protect your investment over many, many years

Summary – Part 2

The new Java Platform

- ➔ Directly based on Java
- ➔ Maven «by the books»

The new HTML5 UI

- ➔ Directly based on HTML5/CSS3/JavaScript
- ➔ Powerful theming and styling

Thanks

@EclipseScout