10 Years later

“develop in Pharo, deploy in Gemstone” with Seaside

Johan Brichau - johan@yesplan.be
Yesplan?

Web Application (SaaS) to manage an event venue

- CULTURAL VENUES
- THEATRES
- ARTS CENTRES
- CINEMAS
- FESTIVALS
- CONCERT HALLS
Yesplan?

Web Application (SaaS) to manage an event venue

- Cultural Venues
- Theatres
- Arts Centres
- Cinemas
- Festivals
- Concert Halls

- Event Planner
- Contacts and Relations
- Finances and Budget
- Staff Administration
- Resource Management
- Reporting
Yesplan?

Web Application (SaaS) to manage an event venue
Yesplan?

Web Application (SaaS) to manage an event venue

- jQuery
- jQuery-UI
- KnockoutJs
- D3.js
- Datatables
- Jasper reports
- …. 
Yesplan ?

Web Application (SaaS) to manage an event venue

- jQuery
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- ...
Yesplan?

- Founded by INCEPTIVE.BE and arts centre VOORUIT

- Over 200 customers (in BE, NL, Lux, CH, UK, NO, DK, FI)

- Currently 25 employees:
  - 5 software engineers, 1 dev ops engineer, 1 interaction designer and 1 report engineer
  - sales, account management, marketing, support,

- Emphasis on making an application that not only works, but also is enjoyable to use
Yesplan 0.1 (2009)

- Yesplan calendar built using Seaside’s “full page rendering”
  - Standard ‘component calls component’ implementation
  - A lot of jQuery for animations and ajax updates
- Javascript universe was “big mess” (excluding notable exceptions)
  - More errors than functionality in most ‘plugins’
  - Bad performance and horrible engineering
- Pharo + GoodsDB in production
Yesplan 1.0 (2010)

- Yesplan calendar with incremental ajax updates
  - A lot of jQuery-based scripts
  - SVG animations using generated Javascript
- Develop in Pharo, deploy in GemStone
  - Pharo for development
  - GemStone for deployment
- Unit tests + Seaside Component Tests
Yesplan 1.0 (2010)

- Yesplan calendar with incremental ajax updates
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- Develop in Pharo, deploy in GemStone
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- Unit tests + Seaside Component Tests
Yesplan 1.x (2010-2013)

- Seaside with a lot of Javascript generation
- Separate Javascript source code files
- jQuery event delegation
- Parasol
- Selenium (Webdriver) testing
- Targeted at Seaside apps but not limited to
# Yesplan 1.x (2010-2013)

<table>
<thead>
<tr>
<th>Ma</th>
<th>01-04-2019</th>
<th>Avondcatering</th>
<th>Café</th>
<th>18:00-20:30</th>
<th>apr-avondcatering 18-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di</td>
<td>02-04-2019</td>
<td>Rep Knausgard</td>
<td>Café</td>
<td>09:00-18:00</td>
<td>aleza Leyesen/Knausgard</td>
</tr>
<tr>
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<td>03-04-2019</td>
<td>TZ: laden lossen</td>
<td>Café</td>
<td>22:00-00:00</td>
<td>Berlin/True Copy</td>
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<td>09:00-18:00</td>
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<td>Café</td>
<td>09:00-18:00</td>
<td>aleza Leyesen/Knausgard</td>
</tr>
<tr>
<td>Za</td>
<td>06-04-2019</td>
<td>Dag vd Filosofie</td>
<td>Café</td>
<td>23:00-06:00</td>
<td>Nasty Mondays 18-19</td>
</tr>
<tr>
<td>Zo</td>
<td>07-04-2019</td>
<td>Vooruitbollen</td>
<td>Café</td>
<td>12:00-18:00</td>
<td>Vooruitbollen</td>
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<td>Café</td>
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<td>Café</td>
<td>18:00-20:30</td>
<td>apr-avondcatering 18-19</td>
</tr>
</tbody>
</table>

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Laad en los door H: Rep Knausgard

Levering Mac Encore: Café 18-19

True Copy: Café 18-19

Buffer PA: Café 18-19

Les Filles De Illing: Café 18-19

Future Heritage: Café 18-19
Yesplan 1.x (2010-2013)
Yesplan (2014-2015)

• Experiment with Hybrid Web Application

• Server-side session: Seaside

• Client-side UI: d3js, KnockoutJs, BackboneJs,...
Yesplan (2014-2015)

- Experiment with Hybrid Web Application
- Server-side session: Seaside
- Client-side UI: d3js, KnockoutJs, BackboneJs,...
Yesplan (2014-2015)

- Experiment with Hybrid Web Application
- Server-side session: Seaside
- Client-side UI: d3js, KnockoutJs, BackboneJs,…
Yesplan (today)

- **Full Hybrid Web Application**
  - Server-side session mgmt: Seaside
  - Existing UI: server-side Seaside
  - New UI: client-side ReactJs

- **Operations**
  - SmalltalkCI (Travis-CI), parallel running test packages
  - Sentry central error logging (Js + Smalltalk)

- **Numbers**
  - +200 Gemstone databases
  - +2000 simultaneous sessions
Client

Server

Web components

Operations

Data objects

generated
Seaside-based ReactJs

<html>
  ...
  ...
  <body>
    ....
    ...
    <script>
      ...
      ...
    </script>
  </body>
</html>
Seaside-based ReactJs

<html>
  ...
  ...
  <body>
    ....
    ...
    <script>
      ...
    </script>
    <body>
  </html>
Develop in Pharo, deploy in Gemstone

- **Key Tools**
  - Grease
  - Metacello
  - [https://github.com/GsDevKit/](https://github.com/GsDevKit/)

- **Pros**
  - Seaside in GsDevKit
  - “Transparent” persistency
  - Licensing model
  - Gemstone performance, Pharo coolness
  - NO ORM
  - Live debugging of production environment

- **Cons**
  - Dialect differences only become larger
  - Pharo-specific classes
  - “Transparent” persistency
Develop in Pharo: GT!
Develop in Pharo: GT !
Thank you!

Johan Brichau
johan@inceptive.be
johan@yesplan.be