

# 10 Years later

“develop in Pharo, deploy in Gemstone” with Seaside



Johan Brichau - [johan@yesplan.be](mailto:johan@yesplan.be)

# Yesplan ?

Web Application (SaaS) to manage an event venue



CULTURAL  
VENUES >



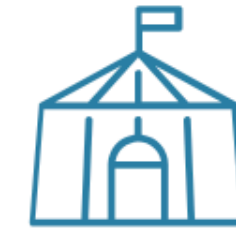
THEATRES >



ARTS CENTRES >



CINEMAS >



FESTIVALS >



CONCERT  
HALLS >

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CULTURAL  
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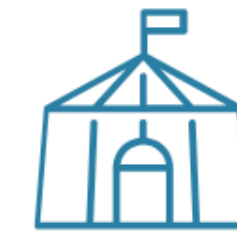
THEATRES >



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



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Web Application (SaaS) to manage an event venue



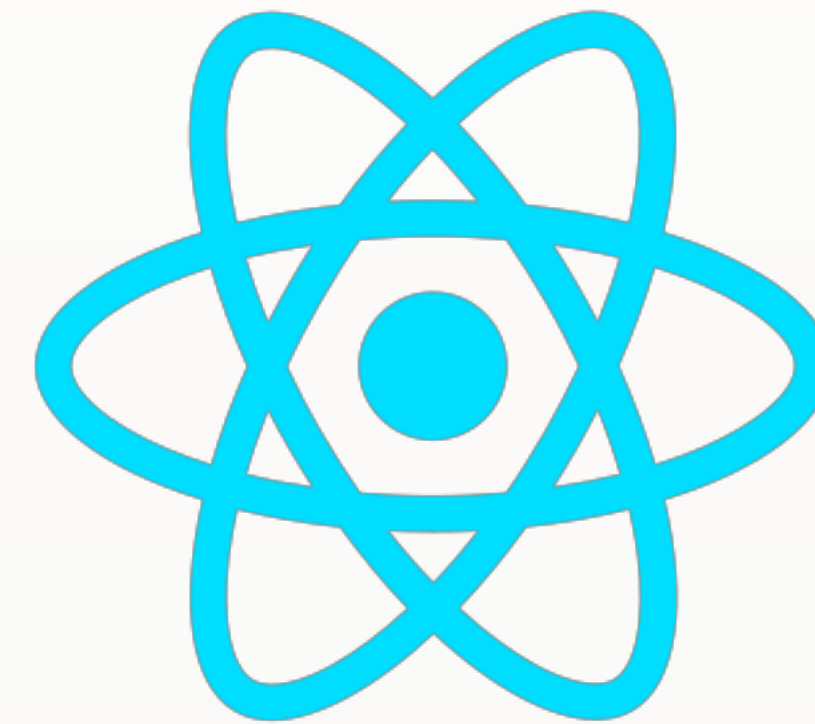
- jQuery
- jQuery-UI
- KnockoutJs
- D3.js
- Datatables
- Jasper reports
- .....

# Yesplan ?

Web Application (SaaS) to manage an event venue



- jQuery
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ReactJs



	Café	DOMZAAL	CONCERTZAAL	THEATERZAAL	BALZAAL	Mokabon	Zonder locatie	AntiekStudio	SnoepWink
ma 01-04-2019	avondcatering 18:00-20:30 apr-avondcatering 18-19	OPB rep Knausgard 10:00-22:00 Alexia Leysen/Knausgard		opendoen orkestbak 15:00-17:00 Berlin/True Copy		reset		rep. Maija Hirvanen 09:30-19:00 Maija Hirvanen	
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# Yesplan ?

- **Founded by**  **and arts centre** 
- **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"

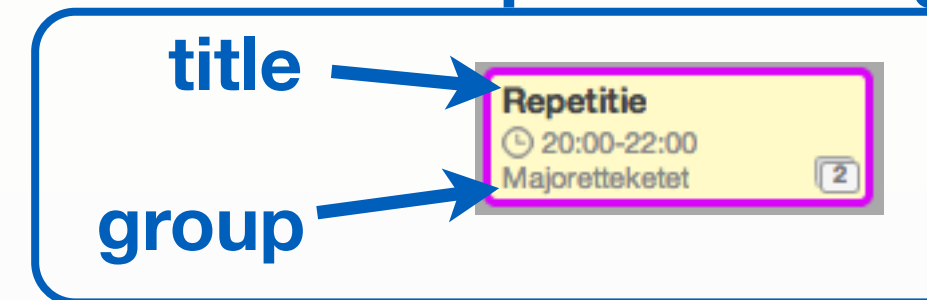
- Standard 'component calls component' implementation
- A lot of jQuery for animations and ajax updates

- Javascript universe was "big mess"  
(excluding notable exceptions)

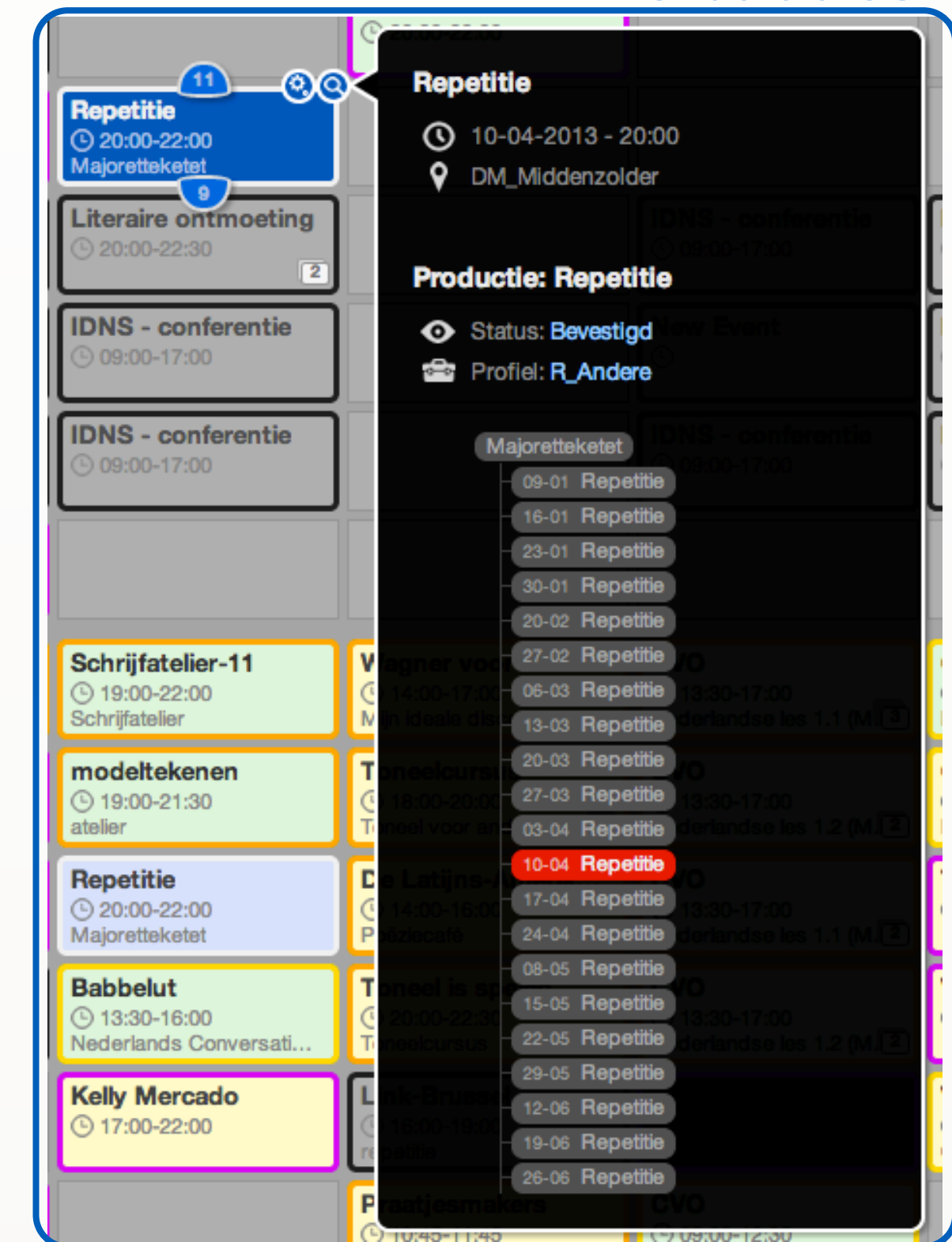
- More errors than functionality in most 'plugins'
- Bad performance and horrible engineering

- Pharo + GoodsDB in production

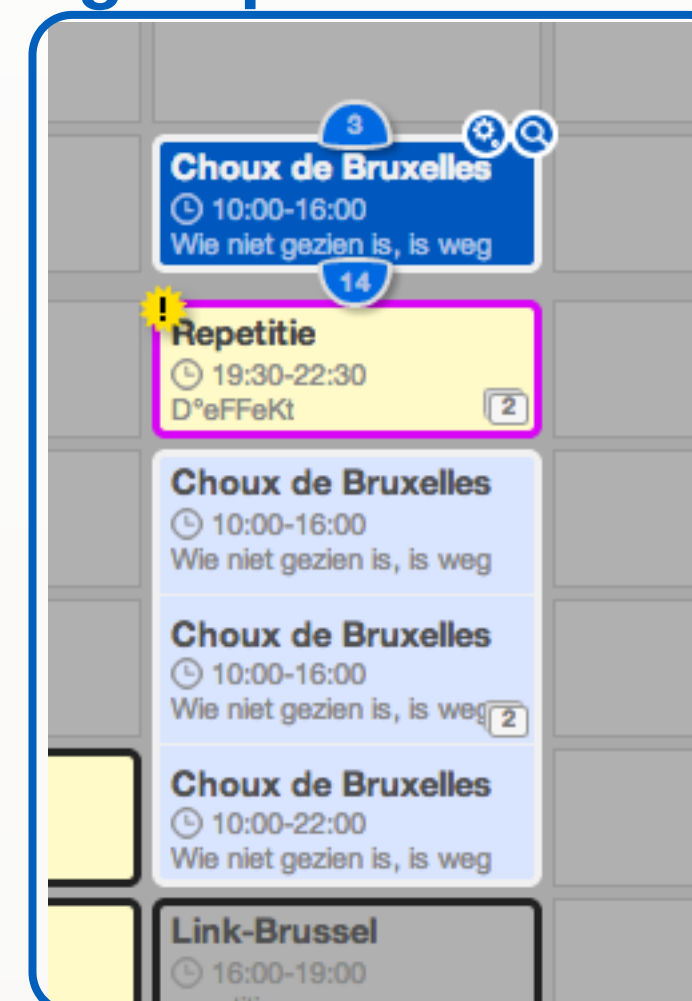
in-place editing



info bubbles



group visualization

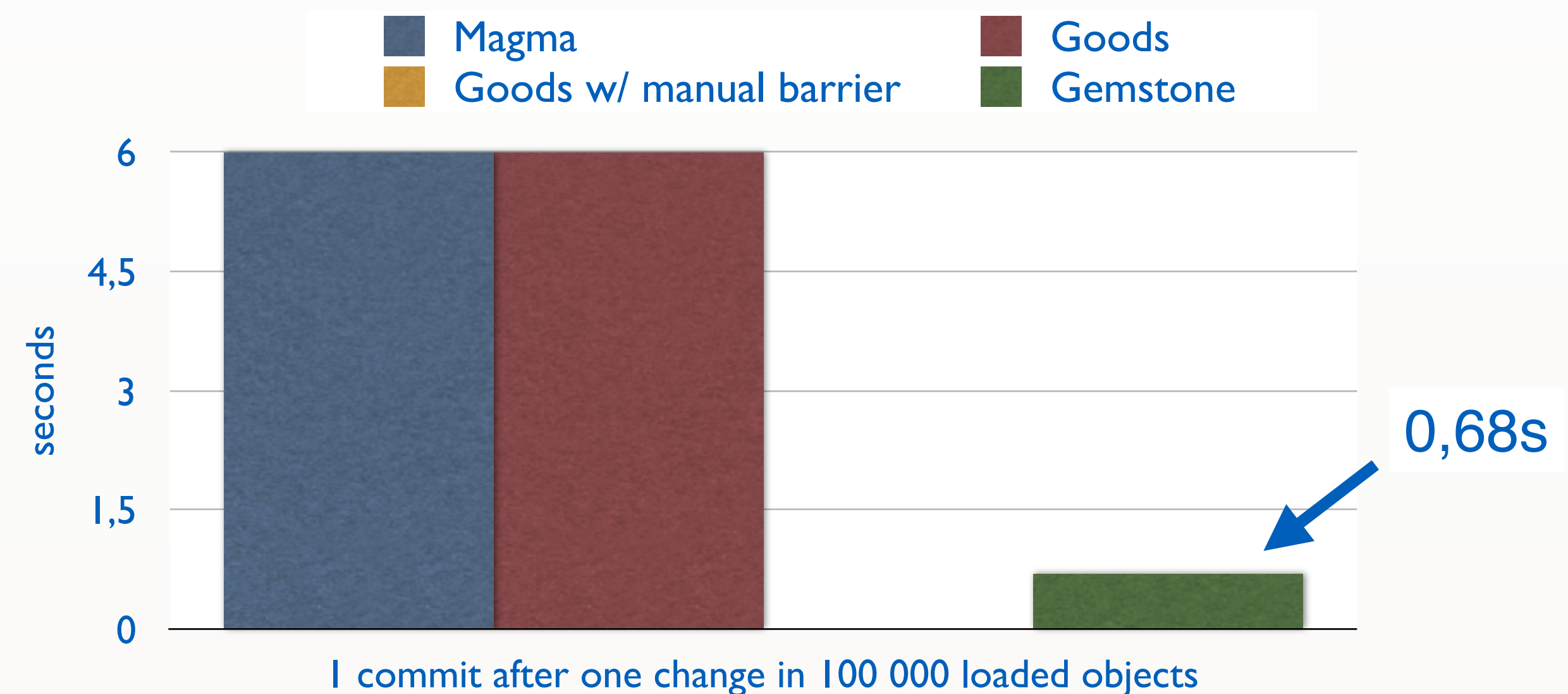


# Yesplan 1.0 (2010)

- **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**

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- **Yesplan calendar with incremental ajax updates**
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# 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

```
html span
  class: 'name';
  passenger: self;
  with: self visibleresourceUse event name.
```

```
html jQuery this
  on: 'click'
  selector: '.name'
  do: ((JStream on: 'editEventName(event.target)') asFunction: #(event))
```

```
html document addLoadScript:
  (((html jQuery expression: (JStream on: 'target')) editable
    type: 'text';
    callback: [ :val | nameValue value: val ];
    secondCallback: (html jQuery ajax
      callback:[:theCells | theCell value changeEventName: nameValue value]]
      passengers: ((html jQuery expression: (JStream on: 'target')));
      script: [:s | s<< (theCell value afterNameUpdateScriptOn: s)];
      yourself) asFunction: #(target)) assignTo: 'editEventName').
```



# Yesplan 1.x (2010-2013)

The screenshot displays the Yesplan 1.x software interface, which is a calendar-based scheduling tool. The main area is a grid representing the month of April 2019, with columns for days of the week and rows for dates. The grid is divided into several vertical sections, each representing a different location or room: Café, DOMZAAL, CONCERTZAAL, THEATERZAAL, BALZAAL, Mokabon, Zonder locatie, AntiekStudio, and SnoepWink.

Each cell in the grid contains a block representing an event or task. These blocks are color-coded and include details such as the event name, time slot, and the person responsible. For example, on Monday, April 1st, there is an event 'avondcatering' from 18:00-20:30 in the Café, and 'OPB rep Knausgard' from 10:00-22:00 in the DOMZAAL. Other notable events include 'Dag vd Filosofie' on Saturday, April 6th, and 'Vooruitbollen' on Sunday, April 7th.

At the bottom of the screen, there is a navigation bar with several icons and labels:
 

- EVENTEN**: Represented by a calendar icon with the number 27.
- TEAMPLANNER**: Represented by a group of people icon.
- RESOURCES**: Represented by a microphone icon.
- CONTACTEN**: Represented by a person icon.
- TAKEN**: Represented by a paper plane icon.
- RAPPORTEN**: Represented by a bar chart icon.
- HELP**: Represented by a question mark icon.
- ZOEKEN**: Represented by a magnifying glass icon.
- WIM CASIER**: Represented by a person icon.
- TO DO**: Represented by a checkmark icon.
- CONFLICTEN**: Represented by a warning icon with a notification count of 1741.
- UPDATES**: Represented by a document icon with a notification count of 3155.

The Yesplan logo is visible in the bottom right corner of the interface.



# Yesplan 1.x (2010-2013)

The screenshot displays the Yesplan 1.x software interface, which is a calendar-based event management tool. The main area is a grid with columns representing different locations and rows representing dates from April 1st to 11th, 2019. The locations are: Café, DOMZAAL, CONCERTZAAL, THEATERZAAL, BALZAAL, Mokabon, Zonder locatie, AntiekStudio, and SnoepWink. Each cell in the grid contains event information, including the date, time, and location. The interface is cluttered with many overlapping event boxes and icons. A navigation bar at the bottom includes icons for various functions: EVENEMENTEN, TEAMPLANNER, RESOURCES, CONTACTEN, TAKEN, RAPPORTEN, HELP, ZOEKEN, WIM CASIER, TO DO, CONFLICTEN, and UPDATES. The interface is cluttered with many overlapping event boxes and icons.

Day	Café	DOMZAAL	CONCERTZAAL	THEATERZAAL	BALZAAL	Mokabon	Zonder locatie	AntiekStudio	SnoepWink
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The screenshot displays the Yesplan 1.x software interface, showing a calendar grid for April 2019. The interface is divided into columns for different locations: Café, DOMZAAL, CONCERTZAAL, THEATERZAAL, BALZAAL, Mokabon, Zonder locatie, AntiekStudio, and SnoepWink. The calendar shows various events, many of which are highlighted with colored boxes (yellow, blue, red, green, purple) and question marks. A blue border highlights a specific area of the calendar. The bottom of the screen features a navigation bar with icons for 'EVENEMENTEN', 'TEAMPLANNER', 'RESOURCES', 'CONTACTEN', 'TAKEN', 'RAPPORTEN', 'HELP', 'ZOEKEN', 'WIM CASIER', 'TO DO', 'CONFLICTEN', and 'UPDATES'. The Yesplan logo is visible in the bottom right corner.

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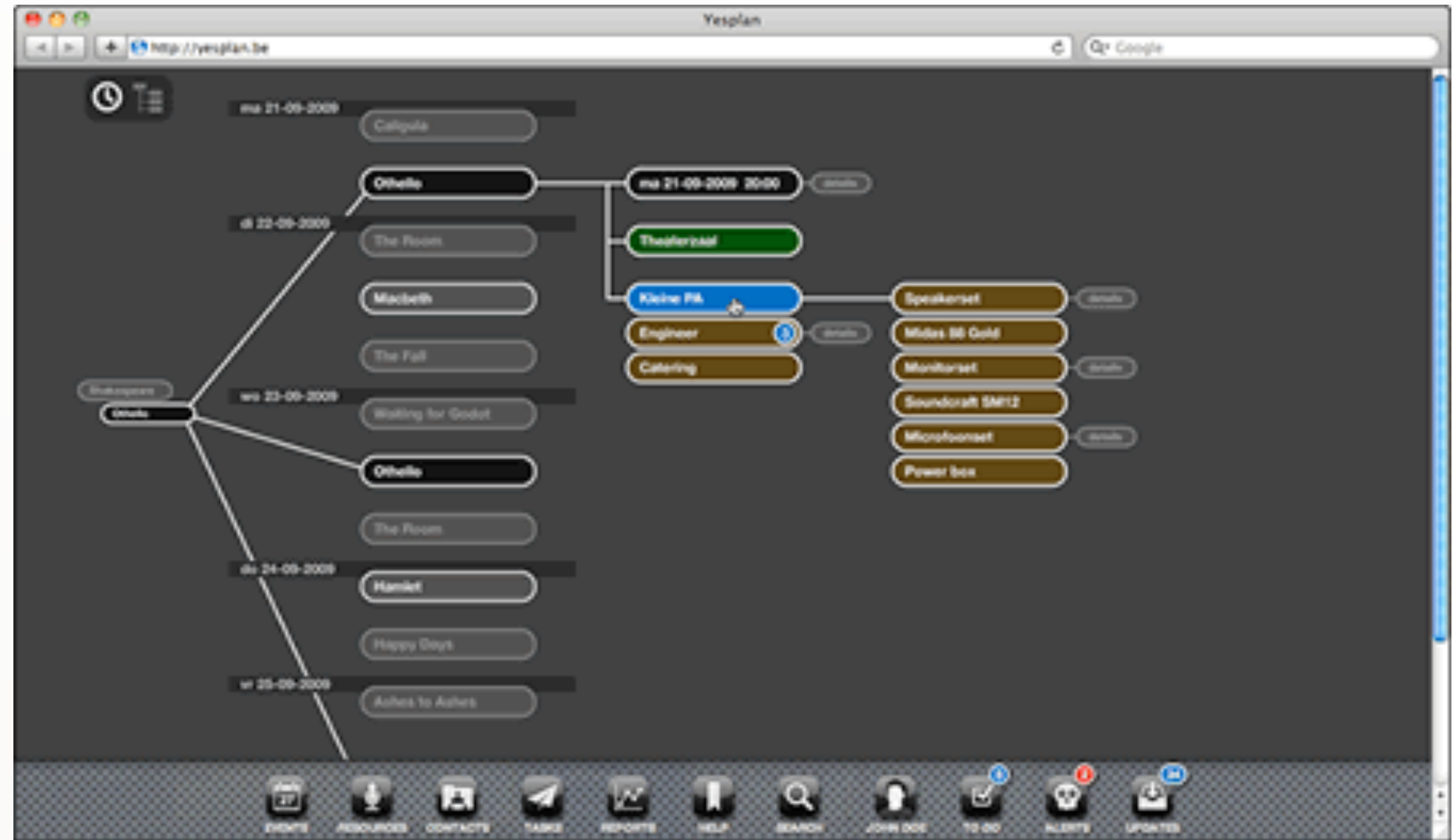
# Yesplan (2014-2015)

- **Experiment with Hybrid Web Application**
  - Server-side session: Seaside
  - Client-side UI: d3js, KnockoutJs, BackboneJs,...



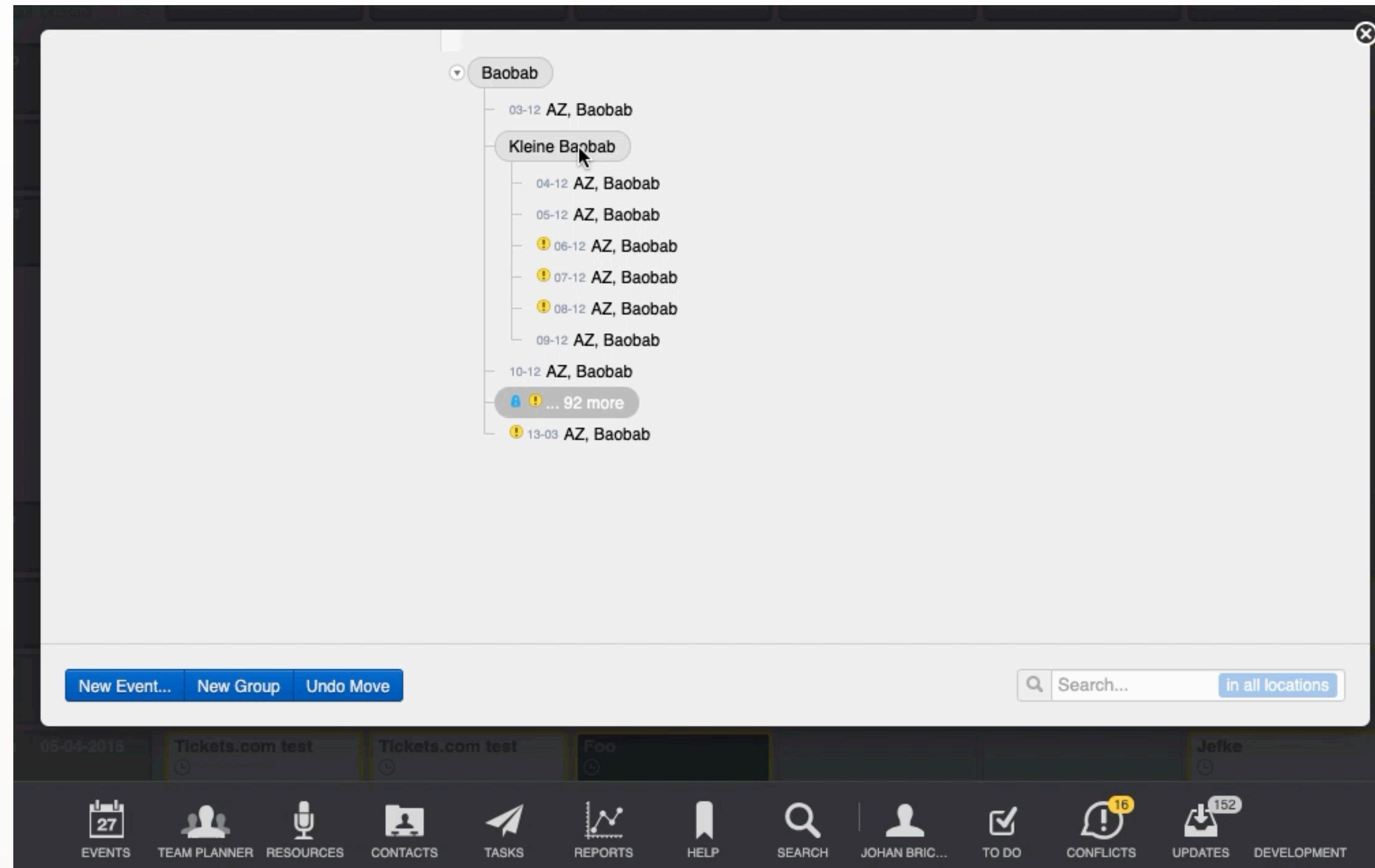
# Yesplan (2014-2015)

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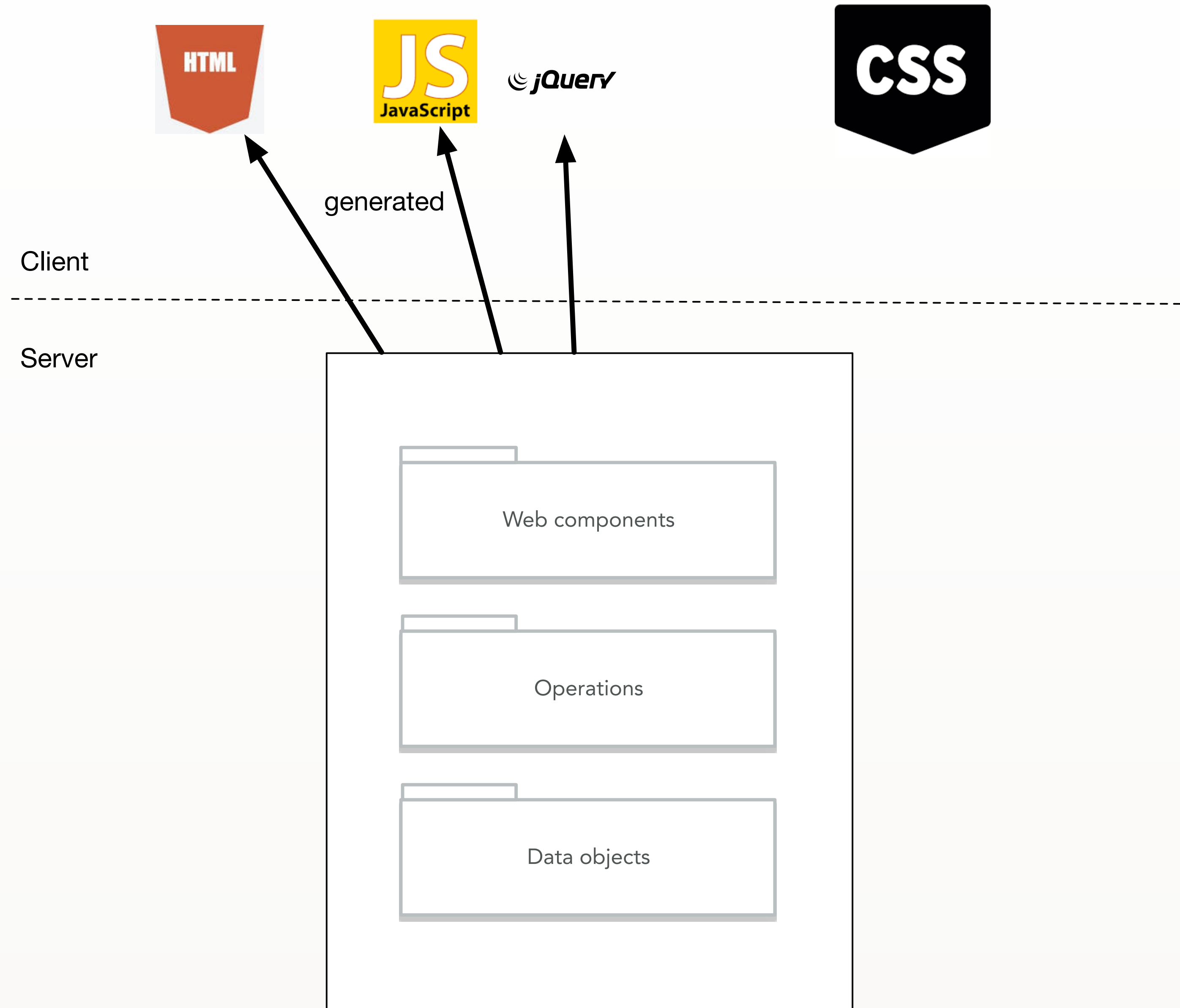
# Yesplan (2014-2015)

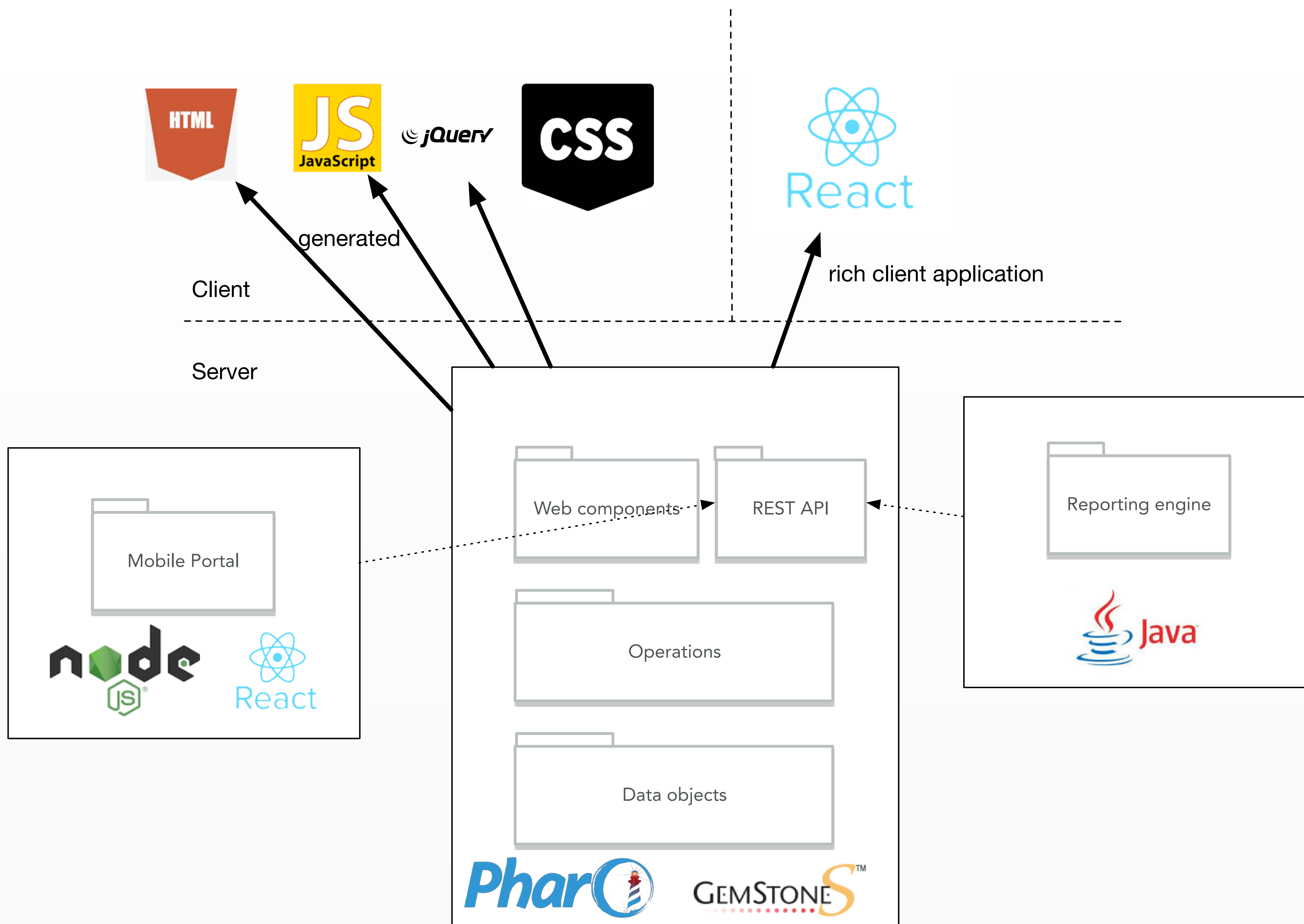
- **Experiment with Hybrid Web Application**
  - Server-side session: Seaside
  - Client-side UI: d3js, KnockoutJs, BackboneJs,...



# 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







# Seaside-based ReactJs

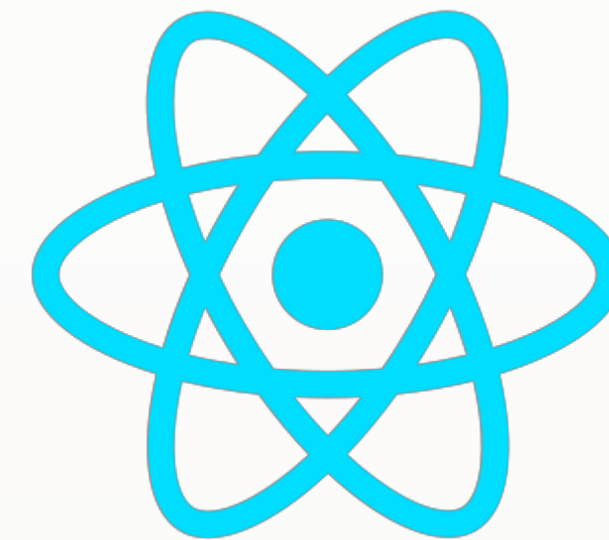
```
<html>  
  ...  
  <body>  
    ....  
    <script>  
      ...  
    </script>  
  </body>  
</html>
```



seaside 

# Seaside-based ReactJs

```
<html>  
  ...  
  <body>  
    ....  
    <script>  
      ...  
    </script>  
  </body>  
</html>
```



seaside 

# Develop in Pharo, deploy in Gemstone

- **Key Tools**

- Grease

- Metacello

- <https://github.com/GsDevKit/>



- **Cons**

- Dialect differences only become larger

- Pharo-specific classes

- “Transparent” persistency

- **Pros**

- Seaside in GsDevKit

- “Transparent” persistency

- Licensing model

- Gemstone performance, Pharo coolness

- NO ORM

- Live debugging of production environment





# Develop in Pharo: GT!

The screenshot displays the Pharo IDE interface with two Inspector windows open. The left window, titled 'Inspector on a NPDAOForTestingPersistent', shows a list of keys and values for the object 'a NPDAOForTestingPersistent'. The right window, titled 'Inspector on a NPSubstringIndex', shows a list of keys and values for the object 'a NPSubstringIndex'. The interface includes a menu bar (Pharo, Tools, NextPlan, System, Debugging, Windows, Help), a toolbar, and a taskbar at the bottom with various open windows like 'Playground', 'Monticell...', 'Transcript', 'NPSyntaxB...', 'NPLogging...', 'NPDocxTem...', and 'Inspector...'. The status bar at the bottom of the Inspector windows shows 'Quick selection field. Given your INPUT, it executes: self select: [:each | INPUT]'.

Key	Value
#ContactLinkNameSubstringIndex	a NPSubstringIndex
#ContactStringPool	a NPStringPoolWithPresets
#ContactTitles	a SortedCollection [12 items] (Baron De heer Dhr. Dhr. & Mevr. Fa
#ContactUseCustomDataTemplateR	
#ContactUseInspectorCustomTabs	a SortedCollection [2 items] (Money Varia)
#ContactUses	a Dictionary [2 items] (a NPOrganizationContact->a Set(a NPCont
#ContactsTrashCan	a NPTrashCan
#CostModelStringPool	a NPStringPoolWithPresets
#CustomEventStatus	an OrderedCollection [8 items] (No Status Option Request Option
#DataViewHandles	an OrderedCollection [4 items] (a NPDataViewModelHandle a NP
#DateDecorations	a SortedCollection [5 items] (a NPDateDecoration a NPDateDecor
#DayPartSets	an OrderedCollection [2 items] (a NPDayPartSet a NPDayPartSet)
#DecoratedDates	a Dictionary [0 items] ()
#DefaultEventDecorator	ep
#DefaultHRShifts	a NPHRShiftPattern
#DefaultOrganizationAddressType	Address
#DefaultPersonAddressType	Address
#DefaultSystemProperties	a NPDefaultProperties
#DefaultUserProperties	a NPDefaultProperties
#DraftEventStatus	Draft
#EventCustomDataTemplateRoot	
#EventDecorators	a SortedCollection [4 items] (ep misc project vh)
#EventInspectorCustomTabs	a SortedCollection [1 item] (Verhuur)
#EventLabelPool	a NPTagPool
#EventNameSubstringIndex	a NPSubstringIndex
#EventPerPodiumkunstID	a Dictionary [0 items] ()
#Events	a NPDateIndex
#EventsTrashCan	a NPTrashCan
#FreeformEventStatus	FreeForm
#GeneratedReports	a NPGeneratedReportStorage

Key	Value
'm 2'	a Set [1 item] (The Room 2(start: 05-04-2019 end: 05-04-2019))
'000'	a Set [1 item] (000(start: 03-04-2019 end: 03-04-2019))
'unc'	a Set [101 items] (Lunch(start: 23-06-2019 end: 23-06-2019) Lunch
'wi'	a Set [1 item] (The Winning Film(start: 04-04-2019 end: 04-04-201
'emo'	a Set [1 item] (Film Awards Ceremony(start: 04-04-2019 end: 04-0
'ony'	a Set [1 item] (Film Awards Ceremony(start: 04-04-2019 end: 04-0
'ged'	a Set [1 item] (Ongedecideerd(start: 07-04-2019 end: 07-04-2019)
'ead'	a Set [1 item] (Unreadable event for planner!(start: 01-04-2019 en
'mle'	a Set [1 item] (Hamlet 1(start: 06-04-2019 end: 06-04-2019))
'ann'	a Set [1 item] (Unreadable event for planner!(start: 01-04-2019 en
'lo'	a Set [1 item] (Othello 1(start: 03-04-2019 end: 03-04-2019))
'lm'	a Set [1 item] (Film Awards Ceremony(start: 04-04-2019 end: 04-0
'oom'	a Set [2 items] (The Room 1(start: 04-04-2019 end: 04-04-2019) Th
're'	a Set [1 item] (Piano Recital(start: 04-04-2019 end: 04-04-2019))
'lun'	a Set [101 items] (Lunch(start: 23-06-2019 end: 23-06-2019) Lunch
't 1'	a Set [1 item] (Hamlet 1(start: 06-04-2019 end: 06-04-2019))
'rel'	a Set [1 item] (Relativity Theory(start: 01-04-2019 end: 01-04-2019
'con'	a Set [1 item] (Surprise Concert(start: 01-04-2019 end: 01-04-2019
'se'	a Set [1 item] (Surprise Concert(start: 01-04-2019 end: 01-04-2019
'dee'	a Set [1 item] (Ongedecideerd(start: 07-04-2019 end: 07-04-2019)
'et'	a Set [1 item] (Hamlet 1(start: 06-04-2019 end: 06-04-2019))
'unr'	a Set [1 item] (Unreadable event for planner!(start: 01-04-2019 en
'nt'	a Set [1 item] (Unreadable event for planner!(start: 01-04-2019 en
'bet'	a Set [2 items] (Macbeth 2(start: 07-04-2019 end: 07-04-2019) Mac
'e r'	a Set [2 items] (The Room 1(start: 04-04-2019 end: 04-04-2019) Th
'fi'	a Set [1 item] (The Winning Film(start: 04-04-2019 end: 04-04-201
'h 2'	a Set [1 item] (Macbeth 2(start: 07-04-2019 end: 07-04-2019))
'no'	a Set [1 item] (Piano Recital(start: 04-04-2019 end: 04-04-2019))
'lo3'	a Set [1 item] (Othello3(start: 07-04-2019 end: 07-04-2019))
'le'	a Set [1 item] (Unreadable event for planner!(start: 01-04-2019 en



# Develop in Pharo: GT !

The screenshot displays the Pharo IDE interface with the Inspector on a NPDAOForTestingPersistent object. The Inspector shows a list of keys and values for the object. The key #AllResourceUses is highlighted, and its value is a NPDateIndex. A secondary window shows the details of the NPDateIndex, listing dates and their corresponding sets of bookings.

Key	Value
#AFASContactsSynchronizationLogs	an OrderedCollection [0 items] ()
#AFASIntegrationSettings	nil
#AllResourceUses	a NPDateIndex
#CompositeEventNameSubstringIndex	a NPSubstringIndex
#CompositeEventPerPodiumkunstID	a Dictionary [0 items] ()
#CompositeEvents	a NPDateIndex
#Conflicts	a Dictionary [17 items] (Othello2(start: 05-04-2019 end: 05-04-2019)->an OrderedCollection)
#ContactAddressTypes	a SortedCollection [3 items] (Address Deliveries Invoices)
#ContactCustomDataTemplateRoot	
#ContactDefaultTitle	Dhr.
#ContactInspectorCustomTabs	a SortedCollection [3 items] (Money Themis Varia)
#ContactLinkNameSubstringIndex	a NPSubstringIndex
#ContactStringPool	a NPStringPoolWithPresets
#ContactTitles	a SortedCollection [12 items] (Baron De heer Dhr. Dhr. & Mevr. Fam. M. Mevr. Mevrouw M)
#ContactUseCustomDataTemplateR	
#ContactUseInspectorCustomTabs	a SortedCollection [2 items] (Money Varia)
#ContactUses	a Dictionary [2 items] (a NPOrganizationContact->a Set(a NPContactUse) a NPPersonCo)
#ContactsTrashCan	a NPTrashCan
#CostModelStringPool	a NPStringPoolWithPresets
#CustomEventStatus	an OrderedCollection [8 items] (No Status Option Request Option Confirmed Option Pla)
#DataViewHandles	an OrderedCollection [4 items] (a NPDataViewModelHandle a NPDataViewModelHandle)
#DateDecorations	a SortedCollection [5 items] (a NPDateDecoration a NPDateDecoration a NPDateDecora)
#DayPartSets	an OrderedCollection [2 items] (a NPDayPartSet a NPDayPartSet)
#DecoratedDates	a Dictionary [0 items] ()
#DefaultEventDecorator	ep
#DefaultHRShifts	a NPHRShiftPattern
#DefaultOrganizationAddressType	Address
#DefaultPersonAddressType	Address
#DefaultSystemProperties	a NPDefaultProperties

Key	Value
1 June 2019	a Set [14 items] (DateIndexCell(booking of 'Majolica' on Lunch(start: 11-06-2019 end: 11-06-2019))
15 June 2019	a Set [16 items] (DateIndexCell(booking of 'Majolica' on Lunch(start: 15-06-2019 end: 15-06-2019))
1 July 2019	a Set [3 items] (DateIndexCell(booking of 'Majolica' on Lunch(start: 02-07-2019 end: 02-07-2019))
15 May 2019	a Set [17 items] (DateIndexCell(booking of 'Majolica' on Lunch(start: 19-05-2019 end: 19-05-2019))
1 April 2019	a Set [90 items] (DateIndexCell(booking of 'Consultant' on Othello3(start: 07-04-2019 end: 07-04-2019))
15 April 2019	a Set [16 items] (DateIndexCell(booking of 'Majolica' on Lunch(start: 26-04-2019 end: 26-04-2019))
1 May 2019	a Set [14 items] (DateIndexCell(booking of 'Majolica' on Lunch(start: 04-05-2019 end: 04-05-2019))
15 March 2019	a Set [8 items] (DateIndexCell(booking of 'Majolica' on Lunch(start: 28-03-2019 end: 28-03-2019))

# Thank you!

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Yesplan