

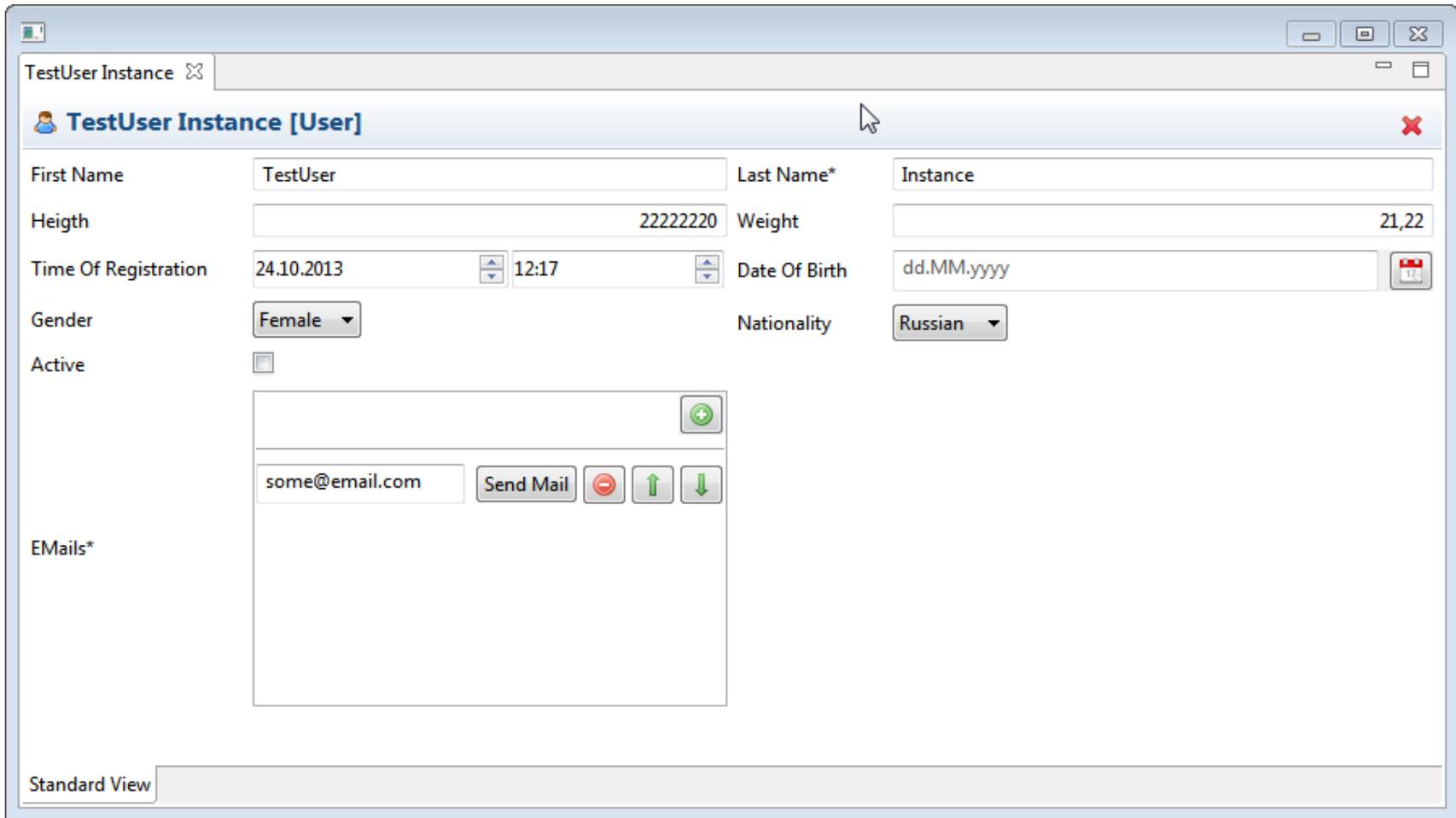


EMFForms: Are you still manually coding UIs?

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Data is often viewed/edited in a form-based UI

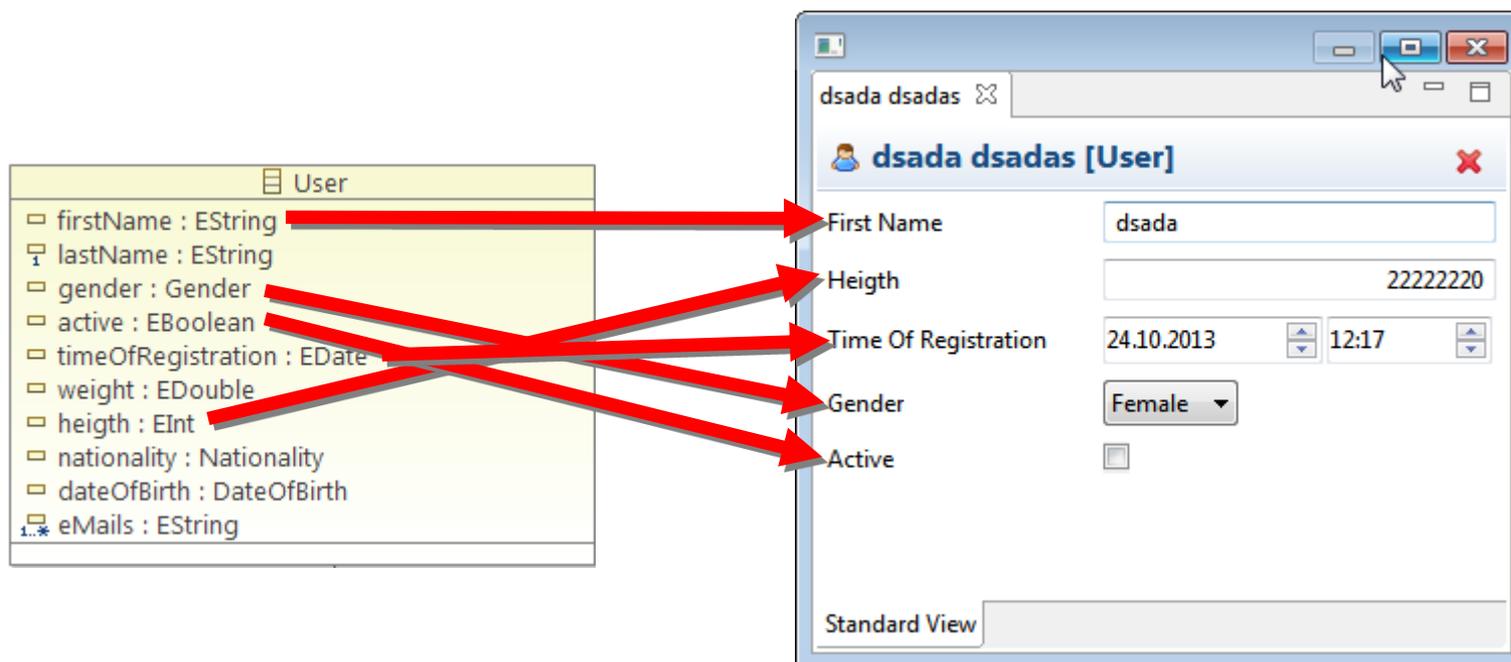


The screenshot shows a window titled "TestUser Instance" with a sub-header "TestUser Instance [User]". The form contains the following fields and controls:

- First Name:** Text input field containing "TestUser".
- Last Name*:** Text input field containing "Instance".
- Height:** Text input field containing "22222220".
- Weight:** Text input field containing "21,22".
- Time Of Registration:** Two date/time pickers. The first is set to "24.10.2013" and the second to "12:17".
- Date Of Birth:** Text input field with a date picker icon, containing "dd.MM.yyyy".
- Gender:** Dropdown menu set to "Female".
- Nationality:** Dropdown menu set to "Russian".
- Active:** A checked checkbox.
- EEmails*:** A list of email addresses. The first entry is "some@email.com". To the right of the list are three buttons: "Send Mail", a red minus button, and a green plus button.

The window has a "Standard View" tab at the bottom left.

Data model needs to be mapped to UI



Modeling the UI



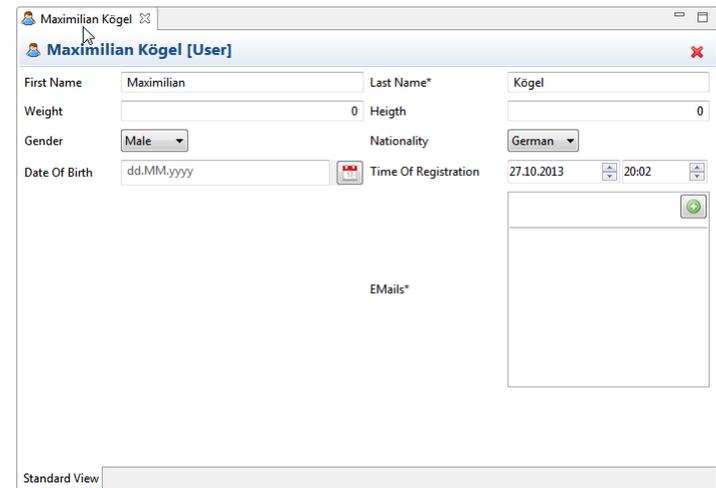
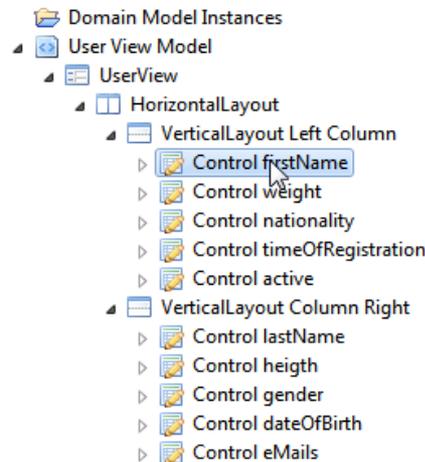
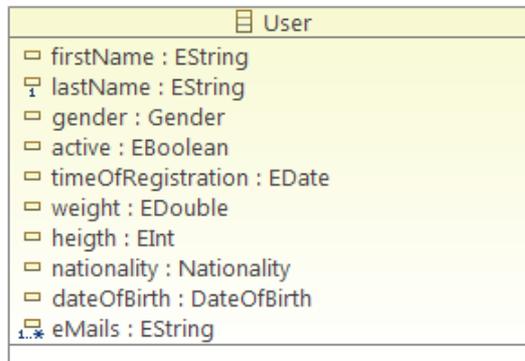
**Domain Model
(XSD, Ecore)**



View Model

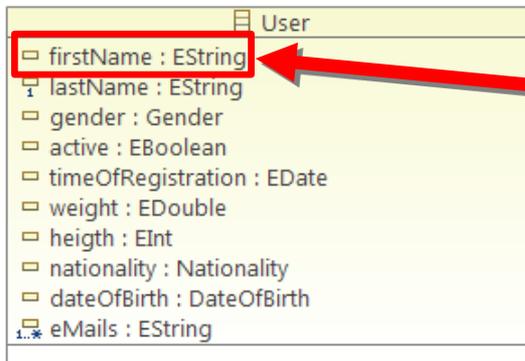


User Interface

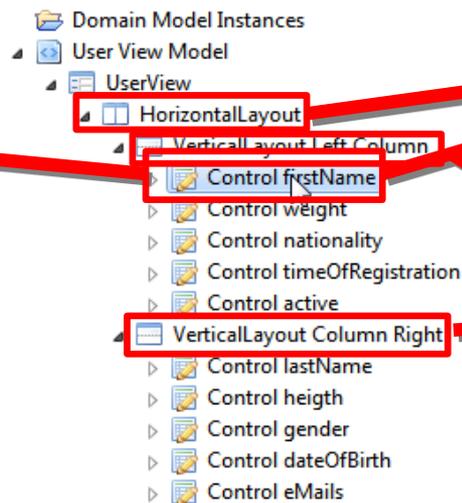


Modeling the UI

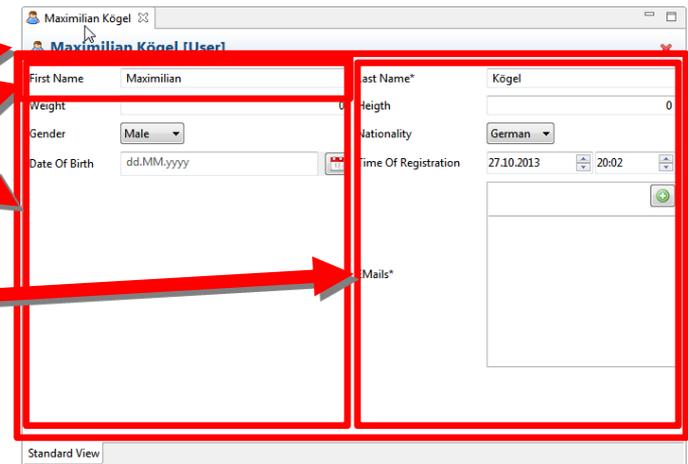
Domain Model



View Model



UI



1. Data Binding with Controls
2. Modeling Structure with Layouts

Demo

RCP Application

File

View

First Name	<input type="text" value="First Name"/>	Weight	<input type="text" value="0"/>
Last Name*	<input style="background-color: red; color: white;" type="text" value="Last Name"/>	Heigth	<input type="text" value="0"/>
Gender	<input type="text" value="Male"/>	Nationality	<input type="text" value="German"/>
Active	<input type="checkbox"/>	Date Of Birth	<input type="text" value="dd.MM.yyyy"/> 
Time Of Registration	No date set! Click to set date. 		Email*
			<input style="background-color: red; color: white;" type="text" value="Email"/>

Tasks

EMF Forms Features



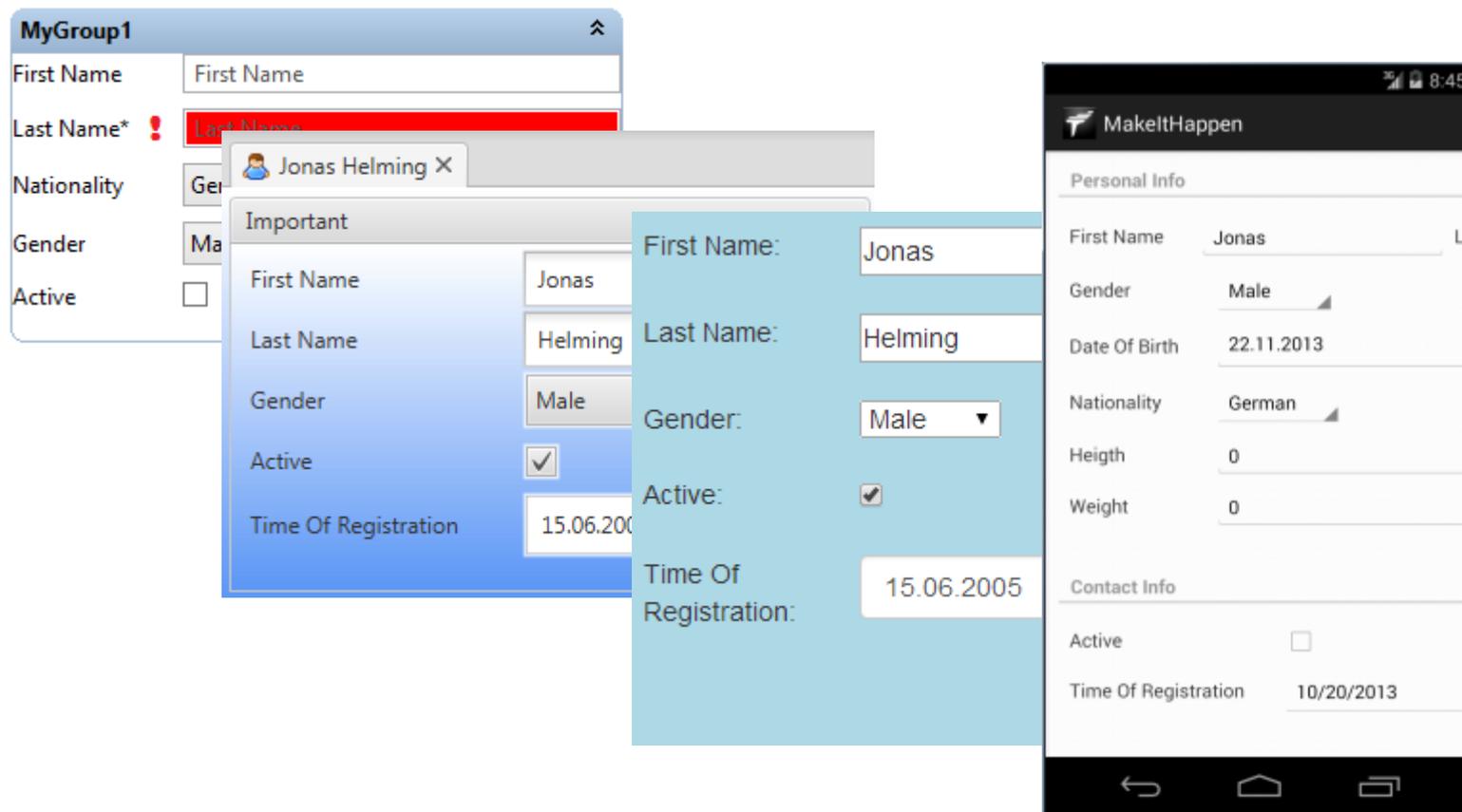
- Controls to view and edit data
- Layouts to structure UI
- Validation
- View Model Tooling
- Rule-based visibility and enablement of controls
- Exchangeable UI Technology:
 - Desktop:
 - SWT (Production)
 - JavaFX (Development)
 - Browser/Web based on RAP (Production)
 - Mobile based on Tabris (Demo)

First Name

Last Name*

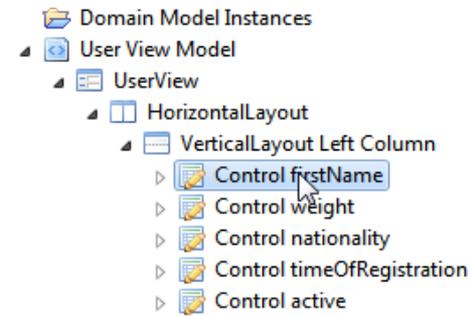
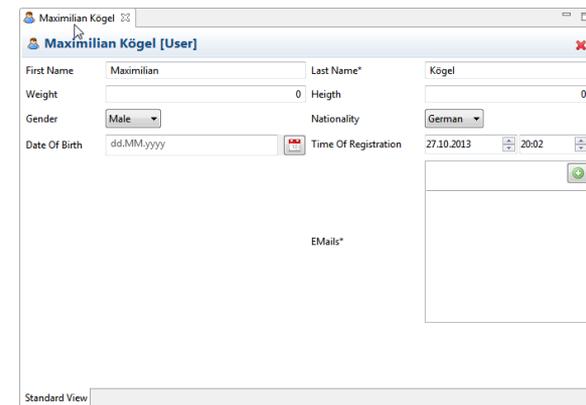


Rendering technologies



When to use/not use of UI Modeling

- Large Domain Model
- Many different Views
- Frequent Domain Model changes
- Homogenous UI
- UI Technology Independence
- Improved Customer Involvement
 - Fast Turnaround + Rapid Prototyping
 - Easy-to-grasp UI concepts

Maximilian Kögel [User]

First Name	Maximilian	Last Name*	Kögel
Weight	0	Heigth	0
Gender	Male	Nationality	German
Date Of Birth	dd.MM.yyyy	Time Of Registration	27.10.2013 20:02
EMail*			

Standard View

More Information

- Current Release 1.3: View Model Tooling
- Roadmap:
 - Improve Tooling
 - Expose more API
 - JavaFX Renderer
- **EMF Forms: <http://emfforms.org>**
- Twitter: #emfcp <https://twitter.com/EMFCP>



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