GWT – Google Web Toolkit

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Agenda

- about me
- Problems with (Ajax)-Webapplications
- What is GWT? + Demo 1
- Widgets (Panels, CSS) + Demo 2
- RPC + Demo 3
- Tooling
- further Demos
about me

- Study: Informations- and Communicationssystems
- 7 Years external employee (Swun, IBM)
- 1 Year Webdeveloper
- 2 Years Technical Application Manager (s-it Solutions)
- One of the authors of the book „GWT Ajax Anwendungen einfach und schnell entwickeln“
Problems with (Ajax)-Webapplications

- Browser compatibility
- different languages
- Use of Ajax
- complex GUIs
- Debugging of GUI Problems
What is GWT?

- Ajax Webframework (RPC)
- Implemented Language: Java
- Hosted Mode/Web Mode
- Eventhandling
- Widget Library
- Browser independent
- Localization
- Historymanagement
Demo 1

- How a GWT Application looks like?
  - Java
  - Hosted Mode/Web Mode
  - Event Handling
Widgets

RadioButton

CheckBox

TextBox

MenuBar

TabBar

PushButton

PasswordTextBox

TextArea

Table

DialogBox

StackPanel

PopupPanel

ToggleButton

Hyperlink

ListBox
Panels (Widgets)

- HorizontalPanel
- VertikalPanel
- FlowPanel
- VerticalSplitPanel
- HorizontalSplitPanel
- DockPanel
- TabPanel
- RichTextArea
- DisclosurePanel
- SuggestBox
Demo 2

Widget Examples and CSS
Widgets used in the Login example

```
private Label txtUser = new Label("User:");

private TextBoxBase inpPwd = new PasswordTextBox();

form.add(this.createAndFormatContentPanel());

this.initWidget(form);

final Grid grid = new Grid(3,2);
grid.setWidget(0, 0, this.txtUser);
grid.setWidget(1, 1, this.inpPwd);
```
RPC – Remote Procedure Call

Source: GWT Documentation
Demo 3

How RPC does work?
Tooling

- projectCreator.cmd
- applicationCreator.cmd
- i18nCreator.cmd
- <Interfacename>-i18n.cmd
- jUnitCreator.cmd
- Eclipse Plugin Cypal Studio for GWT ([http://www.cypal.in/studio](http://www.cypal.in/studio))
further Demos
Questions?