InstantApps: A WYSIWYG Model Driven Interpreter for Web Applications

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Traditional MDA = Code Generation

1. Visual Modeling is used for creation of Application Model (e.g. UML)
2. Code Generator picks the variable part of code templates from Application Model and generates code.
3. Compile, re-build (package) and deploy before run.
4. Changing anything involves changing Application Model, then regenerating the code, compile, package, deploy and then run again.
InstantApps is a WYSIWYG – Model Driven Interpreter

1. WYSIWYG Designer is used for creation of Application Model.
2. Interpreter picks the configurable part of player from Application Model and runs the application.
3. No need of Compile, re-build (package) and deploy before run.
4. Changing anything involves changing through WYSIWYG Designer while running.
1. In ‘Design Mode’, right-click at any position shows designer options.
2. Right-click on any tab and choose the ‘New Tab’ menu option, enter tab name and a new tab immediately appears on the screen.
3. Right-click within a tab, choose ‘New Menu’ and name it, the new menu appears.
1. Right-click on a menu, choose ‘New Form’, give a name and a blank form appears.
2. Right-click on a blank field, clock ‘New Field’, give a name and type; it appears.
1. Right-click on a field and change its properties, such as ‘Auto Increment’, etc.
2. Choose ‘Create Search Template’ on a form menu and a search screen for it is available in the application menu and users can access the search screen on click of it.
1. ‘Copy’ a form.
2. Navigate to the ‘result page’ of another form and ‘Paste’ it on the blank button.
3. Form to Form Navigation with common fields being carried over, is immediately enabled.
1. Server-side data manipulation logic using a graphical Map-Reduce based language
2. Editable in the browser through Search, Create, Update, Delete, Compute nodes.
3. Compute nodes can have arithmetic expressions.
Custom User Interface & Mash-Ups

1. Rich Internet Applications can be created using InstantApps Mash-ups
2. Can be Mashed-up into an existing Web application with little effort.
3. Developer friendly APIs are available to navigate the HTML DOM and to manipulate the look and feel.