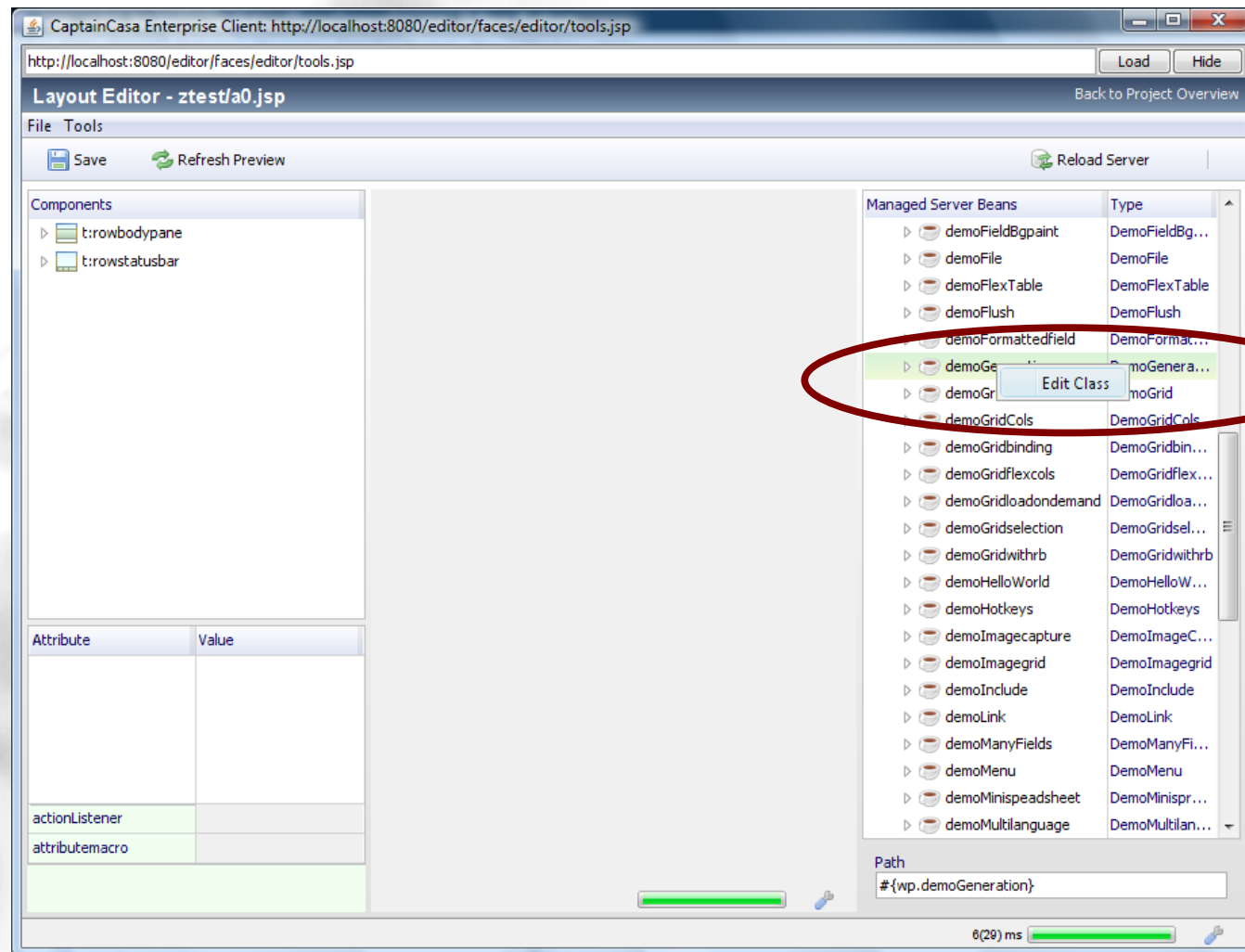


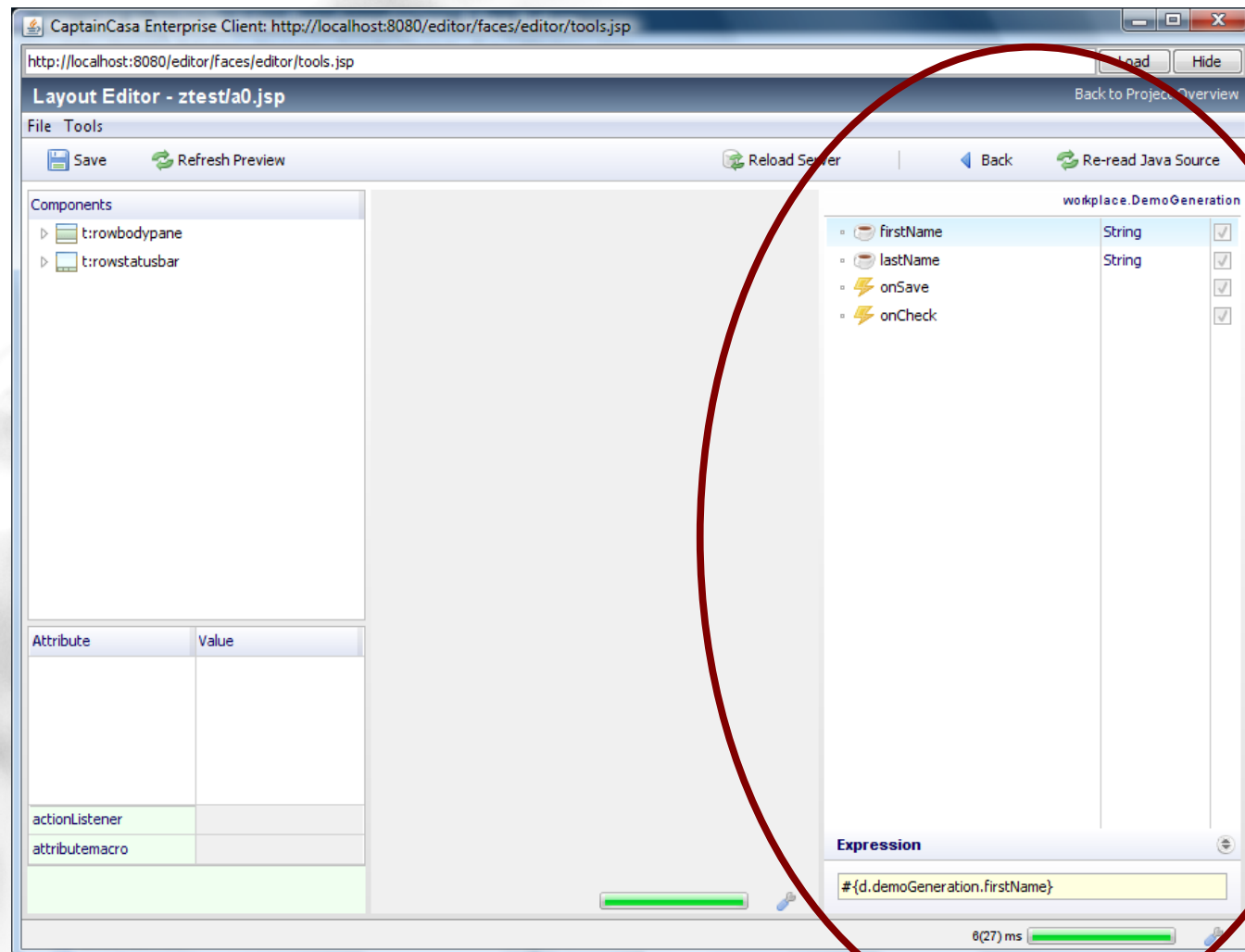
# Code Generator

- Tool that is part of Layout Editor
- Allows quick generation of
  - Properties
  - Methods
  - Inner Classes for a managed bean
- Enables developers to define the source code structure when defining the layout:
  - Ad hoc creation of properties/methods

# Right Mouse Button Menu



# Code Generator



The screenshot shows the CaptainCasa Enterprise Client interface. The main window is titled "Layout Editor - ztest/a0.jsp". The interface includes a menu bar with "File" and "Tools", and a toolbar with buttons for "Save", "Refresh Preview", "Reload Server", "Back", and "Re-read Java Source".

The "Components" panel on the left shows a tree view with the following structure:

- t:rowbodypane
- t:rowstatusbar

The "Attributes" panel on the right, titled "workplace.DemoGeneration", displays a list of attributes:

Attribute	Type	Visible
firstName	String	<input checked="" type="checkbox"/>
lastName	String	<input checked="" type="checkbox"/>
onSave		<input checked="" type="checkbox"/>
onCheck		<input checked="" type="checkbox"/>

The "Expression" field at the bottom contains the code snippet: `#{d.demoGeneration.firstName}`. A status bar at the bottom right shows a green progress bar and the text "6(27) ms".

# Add Methods, Properties, Inner Classes

Layout Editor - ztest/a0.jsp

Components

- t:rowbodypane
- t:rowstatusbar

workplace.DemoGeneration

- firstName String
- lastName String
- onSave
- onCheck

New Property

- New Property
- New Inner Class
- New Method

New Property

Property Name: Street

Type: String

With Member:

OK

Expression

```
public class DemoGeneration
{
    ...
    protected String m_street;
    public String getStreet() { return m_street; }
    public void setStreet(String value) { m_street = value; }
    ...
}
```

10(25) ms

# Class Annotation

Only classes with the following annotation are edit-able:

```
import javax.faces.event.ActionEvent;  
import org.eclnt.editor.annotations.CCGenClass;
```

```
@CCGenClass (expressionBase="#{d.demoGeneration}")
```

```
public class DemoGeneration  
{  
    protected String m_street;  
    public String getStreet() { return m_street; }  
    ...  
    ...  
}
```

Annotation library in  
eclnteditor.jar in  
/editor/WEB-INF/lib

# Project Configuration

```
<project webcontentdirectory="C:\ecInt_demos\WebContent"  
webcontentdeploydirectory="C:\....."  
javasourcedirectory="C:\ecInt_demos\src"  
webcontextroot="demos"  
webhostport="localhost:8080">  
</project>
```

(project file in /webapp/editor/config/projects)

# Technical Background

- Code Generator is based on source code parsing of the managed bean Java Code.
  - NO reflection internally used
  - Reason: otherwise long development cycles