Rich Client Viewer (applet)

Viewer Applet – Html Code

Minimal HTML required to view as applet (mydisplay.html):

```
<html><body>

<object classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93" WIDTH = "725" HEIGHT
   = "585" ALIGN = TOP  codebase="http://java.sun.com/update/1.5.0/jinstall-1_5_0-
   windows-i586.cab#Version=1,5,0,0">

<param NAME = CODE VALUE = "com.sl.gmsjrtview.GmsJRtView.class" >

<param NAME = ARCHIVE VALUE =
   "myclasses.jar,gmsjrtview.jar,gmsjmodels.jar,iText.jar,gmsjrtvreport.jar,
   J2PrinterWorks.jar,activation.jar,mail.jar" >

<param NAME="type" VALUE="application/x-java-applet;version=1.5">

<COMMENT><embed type="application/x-java-applet;version=1.5" code =
   "com.sl.gmsjrtview.GmsJRtView.class" ARCHIVE =
   "myclasses.jar,gmsjrtview.jar,gmsjmodels.jar,iText.jar,gmsjrtvreport.jar,J2Prin
   terWorks.jar,activation.jar,mail.jar" WIDTH = "725" HEIGHT = "585" ALIGN = TOP
   rtv_filename = "mydisplay.rtv" ds = "com.sl.gmsjsqlds.GmsRtViewSqlDs"
   pluginspage="http://java.sun.com/j2se/1.5.0/download.html">

<noembed></COMMENT>

<param NAME="rtv_filename" VALUE="mydisplay.rtv">

</noembed></embed></object>

</body>

</html>
```

Viewer Applet - Requirements

- Using the syntax provided, applets can co-exist on web pages with other elements, such as HTML and Javascript.
- Java applets are governed by Java security settings.
- JRE 1.5 is required for versions 4.x and higher.
- RTView Documentation has more information on the use of applets.

Viewer Applet – Javascript support

Applets support Javascript methods

- setRTViewName (String displayName)
  - Sets the current display (.rtv) file name.

- addSubstitution (String subString, String subValue)
  - Adds a substitution to the main display. Calling this method will cause substitutions in all windows to be reevaluated. If the substitution string is already defined, the corresponding value will be replaced with this value.

- removeSubstitution (String subString)
  - Removes a substitution from the main display. Calling this method will cause substitutions in all windows to be reevaluated.

Exercise

Ex 1: View single panel application as applet

1. Copy displays and PANELS.ini from previous exercises into a separate directory
2. Copy RTV_HOME/demos/mydisplay.html into directory. Rename to index.html
3. Use text editor to modify html page to load custom displays.
4. Copy following jars into directory:

   gmsjrtview.jar, gmsjmodels.jar,

   iText.jar,gmsjrtvreport.jar,J2PrinterWorks.jar,activation.jar,mail.jar
5. Deploy applet directory to web server.
6. From browser window, type in URL for applet page.

Thin Client vs Rich Client Deployment

Advantages of Display Server (thin-client)

- No client plug-in needed – easier maintenance
- Flexibility in client access (e.g., from PDA, cellphone)
- AJAX tables and widgets provide smooth interaction with data
- Exports data to excel, pdf or html
- Ideal for low-frequency update of data (e.g., business information)
- All commands are executed on the server side. No client permissions need to be set to allow system commands
- Supports Tab, Border layouts

Advantages of Java Applet (rich client)

- Supports all of the rich graphical features found in Display Builder
- Exports to pdf or html
- Extremely quick GUI response
- Ideal for displaying rapidly changing data (e.g., real-time infrastructure metrics)
- All data source commands are executed on the server side
- Supports all panel layouts