How to use CaptainCasa tools with Netbeans and Glassfishv3

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Initial Steps

- Start CaptainCasa Development ToolsCreate Project in CaptainCasa
 - Recommended to create project in directory with no spaces, as later the unit test tool has a problem with paths that contain spaces.
 - For now leave the server details as default.



• Choose project in CaptainCasa Editor



Create JSP File

• Note: When opening the test page an error will display because the server is not running.



Start Netbeans

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Create a new Project: Java Web Application with Existing Sources • Choose the location of the project created by CaptainCasa above

Select the folder that contains all the sources for the web	o application.
Location: T:\WetBeansProjects\TestProject	Browse
Specify a name and location for the new project.	
Project Name: TestProject	
Project Folder: T:\WetBeansProjects\TestProject	Browse
	Select the folder that contains all the sources for the weil Location: T: \NetBeansProjects\TestProject Specify a name and location for the new project. Project Name: TestProject Project Folder: T: \NetBeansProjects\TestProject Use Dedicated Folder for Storing Libraries Libraries Folder: Set as Main Project

• Choose Glassfish v3 server (you may have to install and configure this if you have not already done so)

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Steps	Existing Source	es and Libraries	
 Choose Project Name and Location 	Add to Enterprise	Application: <pre></pre>	
Server and Settings Existing Sources and Libraries	Server:	GlassFish v3 🔹	Add
		Use dedicated library folder for server JAR files	
	Java EE Version:	Java EE 6 Web 💌	
		Enable Context and Dependency Injection	
	Context Path:	/TestProject	

• Netbeans should pick up the correct folder structure

Steps	Existing Sources	s and Libraries	
I. Choose Project	Specify the existin	g folders containing the web pages, libraries, source packages, and JUnit test p	ackages.
3. Server and Settings	Web Pages Folder	T:\WetBeansProjects\TestProject\webcontent	Browse
4. Existing Sources and Libraries	WEB-INF Content:	T:\WetBeansProjects\TestProject\webcontent\WEB-INF	Browse
	Libraries Folder:	T: \WetBeansProjects\TestProject\webcontent\WEB-INF\ib	Browse
	Sources Package F	olders:	
	T: WetBeansProje	cts\TestProject\\$rc	Add Folder
			Remove
	Test Package Fold	ers:	
			Add Folder
			Remove
	1		
		< Back Next > Finish	Cancel Help
rojects 🐠 🛿 Files			
CCJPANB			
- CestProject			
🗛 🐻 Web Pages			
Der Meta-INF			
DE WEB-INF			
⊕ ··· ()) ednt			
H. D images			
empty isp			
testPage, isp			
De The Source Packages			
🛄 🔯 Dispatcher.java			
🕀 🚡 Libraries			
🗄 😹 Configuration Files			

• Build and Deploy the app from within Netbeans. This will create the Netbeans build directory structure and ensure the app can be deployed on Glassfish. The **build** directory should be created, and the application successfully deployed. [008]



• Return to CaptainCasa Editor, and open the Project Setup Configuration Options



- · Set webhostport to the Glassfish host and port
- · Set webcontentdeploydirectory to the web directory within the Glassfish build directory
- Set reloadwebapp to false
- Set copywebapp to false

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- Important: Choose 'Refresh' from the Project menu
- · Reload the JSP file in the CaptainCasa Editor, and the jsp preview should display



Keeping the build environment clean

- The CaptainCasa Editor creates a temporary version of each JSP for the preview (indicated by the filename containing 'ZZZZZ' and a timestamp (e.g. testPage_ZZZZ_1268477933315.jsp). This should be removed from the build directory before packaging the app for distribution.
- The CaptainCasa Editor expects to find the classes of ManagedBeans in the following location: TestProject\webcontent\WEB-INF\classes, however Netbeans stores these in the following location: TestProject\build\web\WEB-INF\classes. Therefore we add a task to the Ant build script to copy these files across after each build command.
- Sometimes the CaptainCasa Editor classes are out of sync with the state in Netbeans, so add an explicit command to copy across the classes.
- Add to build.xml, after <import file="nbproject/build-impl.xml"/>:

<!-- Removes temporary CaptainCasa JSPs and classes located in the webcontent

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directory before creating the war file for distribution -->
<target name="-pre-dist">
    <delete includeEmptyDirs="true" quiet="true">
        <fileset dir="${build.web.dir}" includes="*_ZZZZZ_*.jsp"/>
    </delete>
    <delete dir="${webinf.dir}/classes"/>
</target>
<!-- Removes temporary CaptainCasa classes -->
<target name="-post-clean">
    <delete dir="${webinf.dir}/classes"/>
</target>
<!-- Copies temporary classes for use by CaptainCasa Editor -->
<target name="-post-run-deploy">
    <copy todir="${webinf.dir}/classes">
        <fileset dir="${build.web.dir}/WEB-INF/classes"/>
   </copy>
</target>
<!-- Explicitely copies temporary classes for use by CaptainCasa Editor -->
<target depends="-init-project" name="sync-captain-casa">
    <copy todir="${webinf.dir}/classes">
       <fileset dir="${build.web.dir}/WEB-INF/classes"/>
    </copy>
</target>
```

Opening the page in Glassfish

• Create some content in the JSP using the Editor (I found I had to add at least one item to the JSP in order for the page to display when deployed on Glassfish in later steps, otherwise it threw a Null Pointer Exception on startup).



- Save the project
- Create the starter file
 - Under 'Tools' menu of JSP editor, select 'Create Applet HTML/JNLP'
 - Give the name index and make any choices as needed by the project. Any name is allowed, but index is
 usually the default for web servers.
 - Press 'Create Applet / JNLP' to create the file

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Applet / JNLP Name	index	.html / . jnlp
	With support of native components	
	With support of Jasper Client components (JRVIEWER)	
	Support PDF export in client	
	Support XLS export in client	
	With support of Java PDF Output (PDFRENDERER)	
	With support of SimplyHTML editor component	
	The pages must be stored within the root directory of the web applicatic Otherwise relative references inside the pages will need to be valid and r adapted.	on. leed to be
Root Directory	T:/NetBeansProjects/TestProject/webcontent/	
	Create Applet / JNLP	
		Applet HTMI
<html></html>		
<body leftmargin="0</td"><td>) rightmargin=0 topmargin=0 bottommargin=0 style="overflow: hidden"></td><td></td></body>) rightmargin=0 topmargin=0 bottommargin=0 style="overflow: hidden">	
<script type="text</td><td>/javascript"></script>		

• In Netbeans, clean and redeploy the application (it may also be required to restart the server)



• Open the application in a browser

http://localhost:8181/Tes	1 VAR	XXXX	XN	Geogle 👝	
← → C fi ☆ http://localhost	8181/TestProject/	🕨 🕅 🚺	:0 ⊇	- ∰-	0- <i>p</i> -
label					
					. .

Creating a ManagedBean

• Ensure the application is compiled and deployed via Netbeans.

• In CaptainCasa Editor open the **Bean Browser**. A ManagedBean called d of type **Dispatcher** should be visible. (This helper class allows beans to be added without having to modify face-config.xml, see the developer documentation).

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Dispatcher

- Right-click on the d bean and select $\mbox{Create Bean}$
- Give the bean a name, and press Create Class.

Package Name	managedbeans	
Class Name	MyManagedBean	
	Create Class	

• The Code Generator tool is opened and this can be used to create properties and methods.

er	Code Generator	Resources	Log Viewer 🗢
		🔁 Re-re	ead Java Source
		anagedbeans	.MyManagedBean
» 😁	myNewProperty		String
New	Method		e
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Expre	ssion		

• Properties and methods can be dragged and dropped onto component attributes within the editor.



- Note: Explicitly deploy the application in order to copy the class files to the webcontent directory for the CaptainCasa Editor.
- When viewing the ManagedBean in Netbeans, the imports have to be added (Shift-Ctrl-O)
- ManagedBeans can also be created directly in Netbeans directly



• Again, remember to deploy the application to refresh the webcontent classes folder



• When created, press the refresh icon in the CaptainCasa Editor to show the bean.

Bean Browser Code Generator Resources Log View 🗸 9 2 Managed Server Beans Туре 🔺 😁 d 🛦 🚞 managedbeans 🕨 🤭 MyManagedBean MyManagedBean 🕨 🤭 NewJSFManagedBean NewJSFManagedBean 🕨 😁 class contentReplace String > empty boolean expressionBase String isMaximized boolean . openedAsPopup boolean 🕨 🥽 owner IDispatcher 🕨 🥽 staticDispatcherInfo DefaultDispatcherSDis... 🕨 🥽 statusbar Statusbar 🕨 🥽 topOwner IDispatcher 🕨 🥽 workpage IWorkpage 🕨 🥽 workpageContainer **IWorkpageContainer** • 🌽 onMaximize
F onMoveWorkpageIntoContentAi

Misc. Notes

Setting the logging level to write to console is useful, but makes the deploy and runtime process slow down considerably.



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