Overview

General Information

This section describes general information about the plug-in.

ID: net.sf.swtbot.recorder.ui

Version: 0.1.0.qualifier

Name: SWTBot Recorder UI Plug-in

Provider: http://swtbot.sourceforge.net/

Platform Filter:

Activator: net.sf.swtbot.recorder.ui.Activator

Activate this plug-in when one of its classes is loaded
This plug-in is a singlelet

Execution Environments

Specify the minimum execution environments required to run this plug-in.

JRE 1.4

Configure JRE Associations

Update the classpath settings

Plug-in Content

The content of the plug-in is made up of two sections:

- Dependencies: lists all the plug-ins required on this plug-in's classpath to compile and run.
- Runtime: lists the libraries that make up this plug-in's runtime.

Extension / Extension Point Content

This plug-in may define extensions and extension points:

- Extensions: declares contributions this plug-in makes to the platform.
- Extension Points: declares new function points this plug-in adds to the platform.

Testing

Test this plug-in by launching a separate eclipse application:

- Launch an Eclipse application
- Launch an Eclipse application in Debug mode

Exporting

To package and export the plug-in:

1. Organize the plug-in using the Organize Manifest Wizard
2. Specify what needs to be packaged in the deployable plug-in on the Build Configuration page
3. Export the plug-in in a format suitable for deployment using the Export Wizard
Library design from salvaged passenger jets

http://feeds.feedburner.com/boingboing/iBag?m=926

Xbox 360s rolling off the assembly line in early 2007 might not suffer from the same overheating and freezing problems that have been reported on some current consoles thanks to a planned CPU upgrade.

The new Xbox 360s will have a better CPU than the current batch, one that’s built to more effectively reduce heat and lower power use. Plus, the new CPU is expected to handle faster speeds better.

The improved Xbox 360 CPU will be manufactured using 65 nanometre technology starting in the first quarter of 2007, Chartered Semiconductor of Singapore said. The existing CPU uses 90nm technology.

Source: Camashour

This will no doubt be good news for gamers who plan to buy the console next year, but the question remains...
Testing?
SWT/Eclipse Testing

Lessons Learnt Along The Way
SWT/Eclipse Testing

Lessons Learnt Along The Way

Ketan Padegaonkar
ThoughtWorks Studios
Testing

falls into two categories...
Unit Tests
Unit Tests
Functional Tests
Unit Tests

“red green refactor”
Unit Tests

developers care about
Unit Tests

quick feedback
Functional Tests

end users care about
Functional Tests

take longer
Writing SWT Tests

IT LOOKS LIKE WE'LL RELEASE OUR NEW PRODUCT ON TIME, DESPITE ITS MANY DEFECTS.

WE'VE MINIMIZED THE ECONOMIC IMPACT OF THE DEFECTS VIA AN ADVANCED BUSINESS PROCESS CALLED "HOPING NOBODY NOTICES."

AND WE'VE DOUBLED OUR PROJECTED INCOME BY MODIFYING OUR ASSUMPTIONS!

A LOT OF THIS JOB IS MENTAL.
Writing SWT Tests

understand SWT
Writing SWT Tests

understand threading in SWT
Writing SWT Tests

der users
Writing SWT Tests

end users – QAs
End Users – QAs
End Users – QAs

don’t understand SWT
End Users – QAs

atleast not as much as developers
Writing SWT Tests

understand SWT

... but then this is what we’d said earlier...
End Users – QAs

atleast not as much as developers

...these are conflicting in nature...
End Users – QAs

understand the domain
End Users – QAs

understand the application
...challenges to SWTBot...
Challenges

which help resolve end user issues
Challenges

finding controls
Challenges

similar looking controls
Challenges

moving controls

and the solution is...
Challenges

‘edit’ button in the ‘address’ section
Challenges

speed
Challenges

quickly finding controls
Challenges

sending events
Challenges

SWT threading issues
Challenges

non-blocking tests

the way to fix this is...
Challenges

run in separate thread

which causes the problem of...
Challenges

syncing UI thread and test thread

and we’re still not talking about multi threaded apps where multiple threads update the UI over time...
Challenges

multi-threaded applications

...ui updates over time... the solutions to which are...
Challenges

wait()
Challenges

arbitrary
Challenges

guess?
Challenges

size of data sets?
Challenges

aggressive waits
Challenges

aggressive waits – fragile tests
Challenges

too much wait()
Challenges

too much waits – slow tests

the other solution to wait() is...
Challenges

waitFor()
Challenges

consequences

like... look for consequences...
Challenges

page containing ‘hello ${username}’

... to verify that the user has logged in...
Challenges

progress bar to reach 100%
Challenges

add verbosity
Challenges

unreadability
Challenges

wait()s are evil
Challenges

avoid if possible
Record And Playback
Record And Playback

record snippets
Record And Playback

turn on/off recording
Record And Playback

... while using the application
not to mention internationalization/localization
i18n

externalize strings in tests

just as you do in real code
Two Minute Sales Pitch
:-)
swtbot.org

why?
swtbot.org

commercial or dead
swtbot.org

license costs
swtbot.org

difficult to use
swtbot.org

not very extensible
swtbot.org

“no harm in writing yet another calculator”
SWTBot Features
SWTBot Features

playback
SWTBot Features

recording
SWTBot Features

JUnit integration
SWTBot Features

extensible
SWTBot Features

readable
SWTBot Features

```java
assertEquals(3, bot.tableWithLabel("balance").rowCount());
bot.button("Login").click();
bot.comboWithLabel("Country").select("India");
```
more info

swtbot.org
gmail: KetanPadegaonkar
eketan.padegaonkar.name