Development, landscape, and release

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Development

Using PDC2017 package as example
Package

- Algorithms
- Connections
- Dialogs
- Models
- Parameters
- Plugins
Plug-ins

Wrappers for algorithms

• Parameterized headless
• Default headless
• GUI-aware

```
package org.processmining.pdc2017.plugins;
import org.deckfour.uility.api.event.TaskListener.InteractionResult;

public class PDC2017LogPlugin extends PDC2017LogAlgorithm {

    @UIPluginVariant(affiliation = UIToolPluginVariant.ENV, author = "H.M.N. Verbeek", editor = UIToolPluginVariant.DEFAULT, requiredParameterLabels = {})
    public XLog run(UIToolPluginContext context) throws Exception {
        PDC2017Parameters parameters = new PDC2017Parameters();
        PDC2017Dialog dialog = new PDC2017Dialog(parameters);
        InteractionResult result = context.showWizard("Select log to create", true,
            if (result != InteractionResult.FINISHED) {
                context.getFutureResult().cancel(true);
                return null;
            }
        return apply(context, parameters);
    }
```
Parameters

Values needed for running the algorithm from start to end

- Which collection? (TRAIN, CAL1, CAL2, TEST)
- Which number? (1..10)
Dialog

Allows user to set values
Algorithm

Doing the heavy lifting

May have a plug-in context
Dependencies

- ProM framework (ProM-Plugins)
- ProM packages (Log, Widgets)
- Maven2 repository
- ProM libraries (pdc2017logs)
Resolving libraries for Nightly Builds and Releases (where there is no Ivy)

1. No libraries:  
   Comment out

2. Libraries, empty lib folder:  
   Uncomment, set sync="true"

3. Libraries, non-empty lib folder:  
   Uncomment, set sync="false"
Landscape

Local workstation, SVN+Trac, Hudson, Webserver
Local workstation

- Eclipse
- Subclipse
- IvyDE
- Developer test of plug-in
SVN repository

https://svn.win.tue.nl/repos/prom

- Documentation
- Libraries
- Packages
- Releases
SVN
Documentation

https://svn.win.tue.nl/repos/prom/

Documentation

Required for Established packages
SVN Libraries

https://svn.win.tue.nl/repos/prom/Libraries

- Maikel Leemans
- Eric Verbeek

For libraries not included in Maven2 repository
SVN Packages

https://svn.win.tue.nl/repos/prom/Packages

Folder containing package sources
SVN Releases

https://svn.win.tue.nl/repos/prom/Releases/Packages

Folder containing released packages
Hudson

http://ais-hudson.win.tue.nl:8080/

Continuous build server

- Builds
- Releases
- Master Package Lists
- Utilities
Hudson Builds


- Automatic
- Manual (requires log in)

Sends e-mail if build fails.

Shows included libraries as artifacts.

Upstream job: PDC2017_Release
Hudson Builds II

- Checks changes on downstream (ProM, not Hudson) *Established* packages
- Build fails if downstream build of downstream package fails
- Protection from upstream changes (upstream developer is responsible)
Hudson Builds III

Make changes the royal way:

1. Add the new implementation next to the old implementation
2. Inform all downstream developers that there is a new implementation, and how to change to it in their package
3. Wait for these downstream packages to have changed to the new implementation
4. Remove the old implementation
Hudson Builds IV

Javadoc quirk
• Cannot (always) handle a library that contains multiple classes with the same name
• Downstream build may fail as a result
• If possible, avoid classes with the same name
  • Otherwise, split package
Hudson Releases


Manual (requires log in)

Copies **latest successful build** to SVN Releases folder

Clears workspace and triggers new build for package to fill workspace again

Webserver updates package for Nightly Build within an hour
Hudson
Master Package Lists

http://ais-hudson.win.tue.nl:8080/view/Established/

- Established
- RunnerUp (no protection from upstream changes)
- Starter (not installed by default)
- Sandboxes (no releases)
Hudson Utilities


Shows list of libraries, and in which package they are included

Check this list before including another copy of some library!
Webserver

http://www.promtools.org/doku.php

- Latest regular releases
  (Fixed, no changes)
- Latest Lite releases
  (Framework fixed, packages may change)
- Nightly Builds
  (…for the brave and the impatient)
Nightly Build

Packages are checked every hour for updates

**User test of plug-in**

If possible, install all packages

Do not rely on developer test of plug-in only!
SVN Trac

https://svn.win.tue.nl/trac/prom/wiki

ProM development

• Source browser
• Documentation
• Bug reports
• Release candidates
  (ProM 6.8 alpha)
ProM 6.8 alpha
SVN
Trac
Prom 6.8 alpha

https://svn.win.tue.nl/trac/prom/wiki/
ProM68

- Important Dates
- Downloads
- Change Logs
(Log, PNetReplayer, IM, …)
- Release Notes
(Please add where you see fit)

Important dates
- March 12: Alpha release
- March 12 - May 14: Alpha testing
- May 14 - June 26: Alpha bug fixing
- June 26: Beta release
- June 25 - July 9: Beta testing and bug fixing
- July 9: Release
ProM icons
ProM icons

I

How to do it?
ProM icons

II

Create your icon in the lib/images folder

Make it 30 pixels wide and 35 pixels high

Update (if necessary) the resolve target in your build.xml file, as the lib folder is not empty: **If needed set sync to false.**
Add the required annotations to your model class
Questions?

Thank You

That will be all for today