Open issues for the next release

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> **Note:**
>
> These are the top 25 open issues for the next release that are scheduled in our <u>issue tracking system</u> (see <u>all</u> open issues). The listing below is regenerated on each Forrest run.

1. [FOR-713] HTML-to-document.xsl no longer generates an XDoc

<u>http://issues.apache.org/jira/browse/FOR-713</u>

html-to-document.xsl no longer converts content to an XDoc. Instead it renders converts documents to XDoc, instead it allows H1, H2 etc. elements to pass through.

 The result is a page that seems to render correctly and in the single test case I have used it still renders correctly in PDF and Text format. However, this is a backward incompatible change that will break sites that use includes with XPath statements such as /section[@id="foo"] (sections are no longer created)

2. [FOR-762] Default page URL for breadcrumbs and site: links

<u>http://issues.apache.org/jira/browse/FOR-762</u>

When employing breadcrumbs,

 example generated links: home > dir > subdir

 if the user is in node subdir, then clicks dir, <br/> cocoon returns "The requested resource "/dir /" could not be found.
 The link's absolute path during testing is http://localhost:8888/dir/
 Case 1. If you place an index.html file under http://localhost:8888/dir/ for a redirect or viewable content, <br/> clicking on breadcrumbs' dir link throws the error.
 Case 2. If you manually enter the index.html in the browser path after http://localhost:8888/dir/, the request is handled.
 Case 3. If sitemap has match="dir/index.html", cocoon still isn't happy with request dir/

 Cocoon does not appear to assume the end node directory is index.* and thus appends no file automatically as tomcat or the http server does so it must be manually done.

3. [FOR-796] Merge all view/dispatcher work into org.apache.forrest.plugin.internal.dispatcher and org.apache.forrest.themes.core

<u>http://issues.apache.org/jira/browse/FOR-796</u>

This is the global issue to keep track on the merging effort

4. [FOR-855] verify the license situation prior to each release

<u>http://issues.apache.org/jira/browse/FOR-855</u>

This should be continually happening anyway, but immediately prior to each release we need to verify that our license situation is in order. This issue should not ever be closed, rather just move the "Fix for Version" on to the next release.

 Here are some of the tasks:

 A) Ensure that all supporting libraries have a corresponding license. Basically every jar file or other external package needs to have a *.license.txt file. Ensure that any license conditions are met, e.g. for some we must add an entry to NOTICE.txt, while for some others we must not. Remember to

abide by the ASF guidelines (e.g. nothing more restrictive than the Apache License).

 B) Scan the whole trunk repository to add missing ASF copyright headers to source files and to ensure that the ASF copyright headers have not been accidently added to external files. See etc/relicense.txt

5. [FOR-591] MaxMemory needs increasing

http://issues.apache.org/jira/browse/FOR-591

Since the docs restructurng for the 0.7 release it has become necessary to increase the maxmemory to be able to build the Forrest site.

 Does this indicate a memory leak?

 Does someone have the tools to run some diagnostics?

 (NB maxmemory has been increased in forrest.properties, if we resolve this issue it should be reduced again)

6. [FOR-492] Inconsistent Line Endings in generated sites

http://issues.apache.org/jira/browse/FOR-492

Sites generated by Forrest have inconsistent line endings when created on a Windows platform.

 I did a little testing, here's what I have discovered so far:

 - any file that is processed by XSLT has the line endings problem
 - on investigating one such file (index.html) I discovered that the generated comments from site2xhtml.xsl (such as breadtrail comment) have CRLF endings whilst most other lines have LF endings.

 I'm running on Windows, and get the same results whether I run under
 CYGWIN or DOS.

 To reproduce run "forrest site" in any site and check out the generated docs in build/site.

 This appears to a result of the XSLT transformations. xsl:comments retain the line endings contained in the XSL file, whilst other line endings are set to the environment default.

 Is there a way to tell the XSLT transformer what line endings to use?

7. [FOR-533] Auto Generate plugins.xml entry

http://issues.apache.org/jira/browse/FOR-533

The information in the plugins.xml file would be better kept in the plugin directory and added to the plugins.xml file when deployed. This would reduce the amount of duplication in the plugins config files.

 All the necessary values are now in the plugin build.xml file.

 This change will require that the plugins.xml file be retrieved from the build directory rather than the plugins directory when building the plugin documentation pages. We will therefore need a fall back to retrieve this file from the network if it is not currently available - this can be done with the locationmap

8. [FOR-735] Plugins are not correctly deployed in webapp mode

http://issues.apache.org/jira/browse/FOR-735

(At this point I didn't try this scenario step by step any more; basically it is what we did to setup the site, except that we copied our project data from forrest 0.6 before trying the pdf links)

 - run forrest webapp to create an empty webapp
 - configure Tomcat to run the webapp (we did it by creating a context descriptor and put it onder Tomcat's config directory)
 - the pdf links give

an error "Resource Not Found"

9. [FOR-711] Cache results from the Locationmap

http://issues.apache.org/jira/browse/FOR-711

Now that we are using the locationmap extensively it is showing up just how innefficient it is. The problem is that for the majority of requests there are multiple reqeuests to the locationmap. We can make things much faster (especially on the first page request) by caching results in the locationmap.

 I think a simple cache will sufice, lets just provide a static hashmap using the hint as a key and, of course, the location as the value.

 If we test all locationmaps and find no result we should record that tere is no result in this hashmap. This will also be a good place to throw an exception so that Cocoon can better report such errors (see FOR-701)

10. [FOR-707] Document i18n features of Forrest

http://issues.apache.org/jira/browse/FOR-707

There is next to no documentation about i18n, just a pretty poor FAQ entry that points at an issue that has now been closed.

 Cheche wrote a blog entry on his work:

 <a href="http://casa.che-che.com/blog/2005/05/10/internalization-a-site-using-forrest-07-dev/">http://casa.che-che.

 We could, at the very least use the locationmap to pull this content into our site [OT: I wonder if this could be a way to generate more documentation?)

11. [FOR-388] Use plugins in-place if src available

http://issues.apache.org/jira/browse/FOR-388

At present Forrest will attempt to download plugins even if they are available in src form in the local filesystem as part of an SVN checkout.

 Have Forrest mount plugins from designated directories in preference to downloading them wherever possible (need more than posible location for src plugins as some people may be developing their own plugins outside of Forrest)

12. [FOR-742] trouble accessing unversioned plugin for a released version of Forrest, e.g. projectInfo

http://issues.apache.org/jira/browse/FOR-742

The plugin retrieval and deployment process are not quite correct. Recently the projectInfo plugin had its version number incremented and the "unversioned" plugin now relates specifically to 0.8-dev version. That prevents 0.7 from accessing the relevant plugin.

 The solution is discussed here:
 <a href="http://marc.theaimsgroup.com/?t=113176328300002">http://marc.theaimsgroup.com/?t=11317632830000

13. [FOR-639] define terminology for the various aspects of Dispatcher

http://issues.apache.org/jira/browse/FOR-639

See the email thread:
 <a
href="http://marc.theaimsgroup.com/?t=112276643700001">http://marc.theaimsgroup.com/?t=11227664370000

14. [FOR-241] character entities (e.g. ampersand) are expanded again for href or src attributes

http://issues.apache.org/jira/browse/FOR-241

If I have a url like this inside the XML source:

 <a
href="http://sourceforge.net/sflogo.php?group_id=comics-grabber&type=1">http://sourceforge.net/sflogo.php?g

 validate-xdocs fails because it wants the literal & to be typed out as
 &
instead. So I correct it to become:

 <a
href="http://sourceforge.net/sflogo.php?group_id=comics-grabber&type=1">http://sourceforge.net/sflogo.php?g

 However, the generated HTML has the entity resolution UNDONE!:

 <a
href="http://sourceforge.net/sflogo.php?group_id=comics-grabber&type=1">http://sourceforge.net/sflogo.php?g

 This HTML fails validation as 4.01 transitional.

 David Crossley adds:
There is a demonstration of the problem in the document
src/documentation/content/xdocs/docs/dreams.xml
 The ampersand in the link element text is
properly handled but <br/> the ampersand in the link href attribute is not.

15. [FOR-211] whole-site html and pdf: broken ext links

http://issues.apache.org/jira/browse/FOR-211

In the the generated site.html all of the external links are broken (i.e. the href attributes are like ...
error:#ext:forrest).

16. [FOR-210] whole-site html and pdf: broken link faq, broken image links

http://issues.apache.org/jira/browse/FOR-210

The "fresh-site" build from 'forrest seed site' reports some failures for faq.html and various
missing images. Wonder if sitemap issue?

17. [FOR-209] First level selected tab is not highlighted when containing 2nd level tabs

http://issues.apache.org/jira/browse/FOR-209

When there are two levels of tabs, the selected first level tab does not get highlighted, nor are there any
other visual or structural clues as to which first-level tab is active, and which contains the displayed
2nd level tabs.

 This is checked with both the default skin, and with tigris-style.

18. [FOR-203] 2nd level tabs are not selected appropriately

http://issues.apache.org/jira/browse/FOR-203

The 2nd level tabs are not shown for menu entries that caused the issue <strike>FOR-111</strike>. This happens because the starts-with() path comparison fails for menu entries that do not reside the same directory as is specified in the "dir" attribute of the 2nd level tabs.

 See the attached bug-demo.tgz for an example. Select "Samples/Apache document" and notice that the 2nd level tabs are shown. Now select "Samples/BUG DEMO" and notice that the 2nd level tabs are not shown.

 This is because the document corresponding to "Samples/Apache document" resides in the directory "/samples" whereas the document corresponding to "Samples/BUG DEMO" resides in the directory "/bug-sample".

 Kind regards,
   Lorenz Froihofer.

19. [FOR-200] Locationmap for Forrest and Users

http://issues.apache.org/jira/browse/FOR-200

The locationmap gives us the ability to specify where sources are, both for Forrest and for the users.

 Beware that it will not work for raw files that are not linked, as this "feature" currently uses a fixed dir being being copied by Ant.

20. [FOR-546] Sitemap reference doc should be updated to reflect plugin architecture

http://issues.apache.org/jira/browse/FOR-546

The example at <a href="http://forrest.apache.org/0.7/docs/sitemap-ref.html#pdf">http://forrest.apache.org/0.7/docs/sitemap-ref.ht uses a fo2pdf serializer. This probaly worked in versions < 0.7, because the PDF output feature was in the core, and the serializer was very likely declared there.

 With version 0.7, PDF output is moved to a plugin, the fo2pdf serializer seems to be no longer there. The serializer should probably be added to the example, for completeness.

   <map:components>
     <map:serializers>
       <map:serializer name="fo2pdf"
                &
                &
     </map:serializers>
   </map:components>

 I found out about this because my sitemap uses the fo2pdf too (docbook to PDF), and had to add the serializer.

21. [FOR-560] Remove duplicate jars from eclipse plugins

http://issues.apache.org/jira/browse/FOR-560

tools/eclipse/plugins/org.apache.forrest.eclipse.servletEngine/lib contains some duplicate jars to those in the main Forrest trunk. We should find a way of reusing the jars from their existing location.

22. [FOR-562] Update Plugins howto

http://issues.apache.org/jira/browse/FOR-562

The document at <a href="http://forrest.apache.org/docs_0_70/howto/howto-buildPlugin.html">http://forrest.apache.org/docs_0_70/ needs to be updated in the following ways:

 - remove warnings about instability
 - add details about creating plugins outside of FORREST_HOME (mkdir PROJECT_HOME/plugins, copy whiteboard/plugins/build.xml to PROJECT_HOME/plugins, edit forrest.plugins.dir property)
 - update section on seeding a plugin to reflect working outside of FORREST_HOME
 - remove the existing note about copying build.xml

 NB here should be no need to edit the forrest.plugins.dir, simply set it to '.'
 In addition the buil file template should really be provided from the plugins directory rather than the whiteboard dir

23. [FOR-726] use locationmap in all of the plugins

http://issues.apache.org/jira/browse/FOR-726

Each plugin has sitemaps that need to use the locationmap.

 (Perhaps we need Jira sub-tasks for each plugin.)

24. [FOR-721] entries without labels in site.xml are now being crawled and generated

http://issues.apache.org/jira/browse/FOR-721

In our forrest/site-author/content/xdocs/site.xml there are two entries without "label" attributes. Previously these documents were not being generated. Not sure if this change in behaviour is good or bad. Needs investigation.

 This is most likely a side-effect of the workaround for issue FOR-675

25. [FOR-677] leading slash in gathered URIs causes double the number of links to be processed

http://issues.apache.org/jira/browse/FOR-677

Doing 'forrest' starts at the virtual document called linkmap.html where the Cocoon crawler gathers the initial set of links, then starts crawling and generating pages. Any new links are pushed onto the linkmap. However, for some sites, such as our own "seed-sample" and our "site-author", there is a sudden jump in the number of URIs remaining to be processed.

 This is due to a URI with a leading slash (e.g. /samples/faq.html). When that URI is processed, it gains a whole new set of links all with leading slashes, and so the list of URIs is potentially doubled.

 This issue could be due to a user error, i.e. adding a link that deliberately begins with a slash. Sometimes, that is unavoidable.

 However, we do have a sitemap transformer to "relativize" and "absolutize" the links. Should it always trim the leading slash? Or are there cases where that should not happen, so cannot generalise?