Writing Tests

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1. Running Tests

- To run all tests:
 - ./build.sh test
 - To run all module tests:
 - ./build.sh modules.test
 - To run the tests of a single module:
 - ./build.sh module.test -Dmodule=org.myproject.lenya.modules.MyModule
- To run a test in the Eclipse debugger:
 - You have to run the tests once on the command line to generate the LenyaTestCase.xtest configuration file.
 - To debug a single test, right-click on the test class in the package explorer and select *Debug as -> JUnit test*.

Note:

Make sure you added all classes and libs from the build dir (build/lenya/webapp/WEB-INF/lib/) to the junit classpath in the eclipse debugger, otherwise you propably get a file not found exception. Further if you are looking into a way to debug htmlunit test then see the article on the Eclipse Blog-HtmlUnit tests with Eclipse and Ant (http://www.baccoubonneville.com/blogs/index.php/eclipse/2005/12/04/htmlunit-tests-with-eclipse-and-ant)

2. Adding Tests to Modules

Adding unit tests to a module is very simple - you just have to put a Java file in the {yourmodule}/java/test. The most convenient way to get started is to extend AbstractAccessControlTest. This class provides the infrastructure to create a session and invoke operations on documents.

Here's an example:

mymodule/java/test/MyModuleTest.java

The source code:

```
import org.apache.lenya.ac.impl.AbstractAccessControlTest;
import org.apache.lenya.cms.publication.Document;
import org.apache.lenya.cms.publication.DocumentFactory;
import org.apache.lenya.cms.publication.DocumentUtil;
import org.apache.lenya.cms.publication.Publication;
import org.apache.lenya.cms.publication.PublicationUtil;
import org.apache.lenya.cms.repository.RepositoryUtil;
import org.apache.lenya.cms.repository.Session;

public class MetaDataTest extends AbstractAccessControlTest {

    /**
    * Tests my module.
    */
    public void testMyModule() throws Exception {
        Session session = RepositoryUtil.getSession(getManager(), getRequest());
        DocumentFactory factory = DocumentUtil.createDocumentIdentityMap(getManager(), session);

    Publication publication = PublicationUtil.getPublication(getManager(), "test");
        Document doc = factory.get(publication, Publication.AUTHORING_AREA, "/index", "en");
        assertNotNull(doc);
    ...
}
```

3. Testing Usecases

To implement a unit test for a usecase, you can extend the class AbstractUsecaseTest and override the following methods:

- String getUsecaseName() return the name of the usecase to test
- void prepareUsecase() setup the initial envorionment
- Map getParameters() return a map containing the usecase parameters
- void checkPostconditions() check the post conditions after the usecase was executed

Here's an example:

```
* Login test.
```