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SEKT: Semantically Enabled Knowledge Technologies

Annex B to D 10.3.1 Prototype
Protype Data and Testing

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Abstract
This document describes the testing method using for the legal case study prototype, and the data for testing.

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1 Data and testing environment

1.1 Testing philosophy

Search engine used by Legal Case Study Prototype was designed and developed as a software component, which we can reuse in different applications.

One of the most important primitives in the software components development and innovating software development is to have a testing plan, related with quality and assurance.

So, it was important to have a testing plan that guarantees the quality of developed software.

In this case, development language is *Java*, so we use JUnit Framework[1] to develop and execute unit and functionality tests.

1.2 Testing environment

The testing environment is composed with test data (dump of prototype data base) and set of unit and functionality tests (JUnit tests developed for the component).

1.2.1 Data for testing

The dump with the test data is the same dump that we are distributing in the Legal Case Stud Prototype release (`legal_case_study-prototype-dump.sql`). This dump contains 164 FAQs of two domains (*On duty* domain and *Gender Violence* domain), and the processing of last version of the ontology.

1.2.2 Unit Test

We developed a set of unit test; its goal is to validate the correct functionality of the different sotware components.

The next figure (Figure 1.1) shows the Java classes, related with unit tests. These classes are organized in packages, which are the same packages which are used to organize the search component.

[1] "Junit in Action" by Vicent Massol and Ted Husted. Manning Publications Co. 2004.

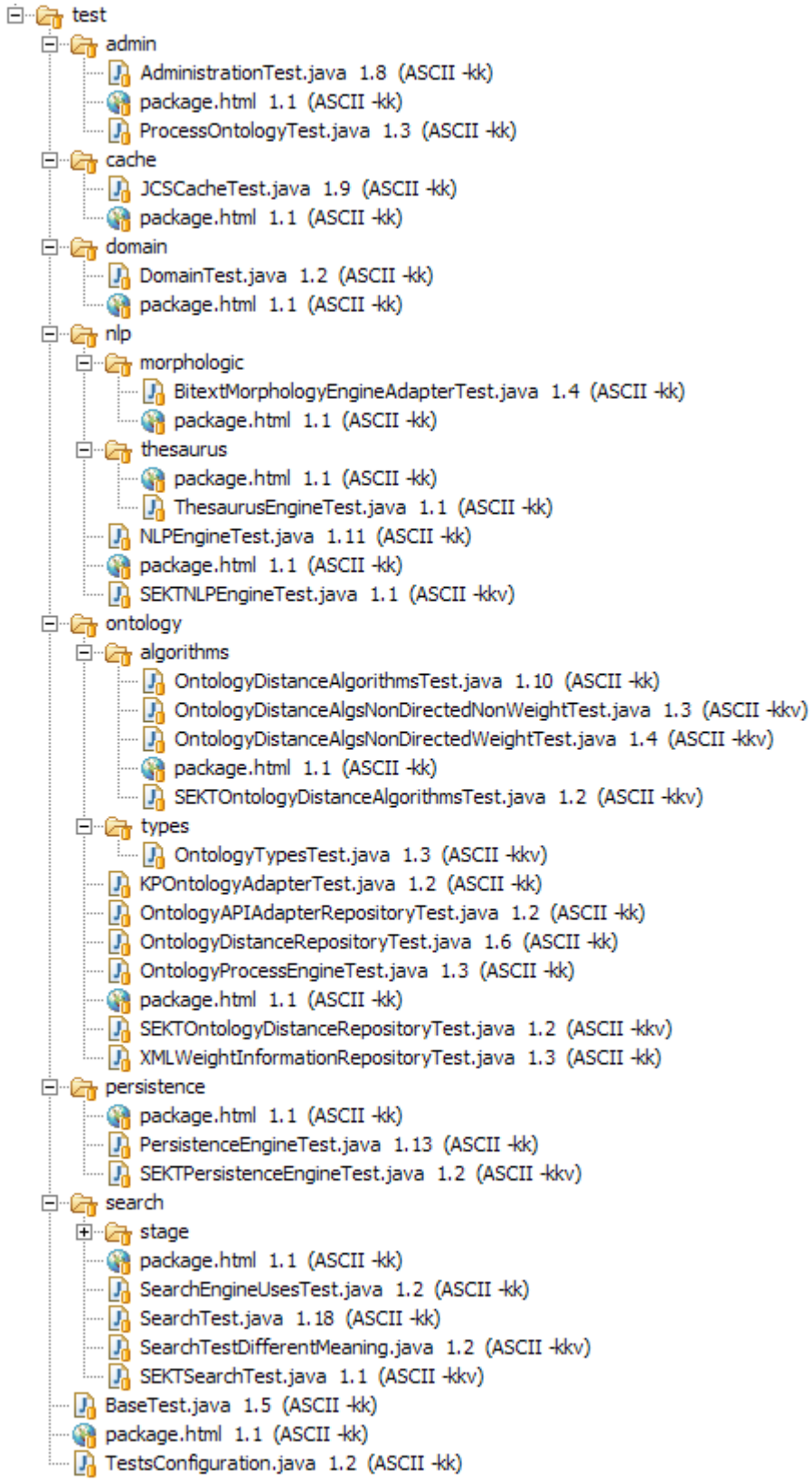

Figure 1.1: Unit tests

1.2.3 Functionality test

Some classes, showed in Figure 1.1, are functionality tests. These tests validate the effectiveness of our search engine for a set of user question, a specific configuration of our search engine and the test data. You can see section 9 of D 10.3.1 for detail.