

Libraries

Table of Contents

Most libraries mostly act as wrappers around some lower-level technology libraries such as [Freemarker](#) or [PdfBox](#). The three *docrendering* libraries act as a "glue" between the [Document subdomain](#) and these lower-level libraries.

| Module | Description | Implements (SPI) | Requires (API) | (direct) 3rd party dependencies |
|---|--|------------------------------------|--|--|
| Base | Base library of utility classes. | (none) | (none) | (none) |
| Freemarker Document Rendering Library | Implements the <i>Document</i> module's Renderer interface using Freemarker. | Document subdomain | Freemarker library | (none) |
| Stringinterpolator Document Rendering Library | Implements the <i>Document</i> module's Renderer interface using StringInterpolator (ognl). | Document subdomain | StringInterpolator library | (none) |
| Xdocreport Document Rendering Library | Implements the <i>Document</i> module's Renderer interface using Xdocreport (ognl). | Document subdomain | Xdocreport library | (none) |
| Docx (MS Word) Library | Provides a mail-merge capability of input data into an MS Word .docx templates, with the generated output document either Word .docx or Acrobat .pdf . | (none) | (none) | docx4j , jdom2 |
| Excel Library | Provides a domain service so that a collection of (view model) object scan be exported to an Excel spreadsheet, or recreated by importing from Excel. | (none) | (none) | Apache POI |

| Module | Description | Implements (SPI) | Requires (API) | (direct) 3rd party dependencies |
|---|--|------------------|----------------|---------------------------------|
| Fake Data Library | Provides a domain service that generates fake random data. The random values generated can then be used within unit and integration tests. | (none) | (none) | java-faker |
| Fixture Support Library | Provides support for writing fixtures. | (none) | (none) | (none) |
| FreeMarker Library | Provides a wrapper around the <i>Freemarker</i> templating engine | (none) | (none) | Freemarker |
| Integration Testing Support Library | Provides a set of testing utilities to support integration testing | (none) | (none) | (none) |
| PDFBox Library | Provides a wrapper around <i>Apache PDFBox</i> . | (none) | (none) | Apache PDFBox |
| Polymorphic Associations Library | Provides a set of helpers to support the definition of polymorphic associations; that is: relationships from one persistent entity to another by means of a (Java) interface. | (none) | (none) | |
| Servlet API Library | Provides access to various elements of the Servlet API, namely the <code>ServletContext</code> , the <code>HttpServletRequest</code> and the <code>HttpServletResponse</code> . Note that this module is only available through the Wicket viewer, not the REST API. | (none) | (none) | (none) |

| Module | Description | Implements (SPI) | Requires (API) | (direct) 3rd party dependencies |
|--|---|------------------|----------------|---------------------------------|
| String Interpolator (OGNL) Library | Provides a mechanism to interpolate string templates with either Isis system properties or values obtained from a domain object, using <i>OGNL</i> library. | (none) | (none) | OGNL |
| Unit Testing Support Library | Provides a set of testing utilities to support unit testing. | (none) | (none) | (none) |
| XDocReport Library | Provides a wrapper around <i>XDocReport</i> , an API to merge XML documents into MS Office (<i>.docx</i>) or OpenOffice (<i>.odt</i>) files, optionally converting into another format (notably PDF). | (none) | (none) | XDocReport |