Libraries

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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 *Document* module's `Renderer` interface using Freemarker.	Document subdomain	Freemarker library	(none)
Stringinterpolator Document Rendering Library	Implements the *Document* module's `Renderer` interface using StringInterpolator (ognl).	Document subdomain	StringInterpolator library	(none)
Xdocreport Document Rendering Library	Implements the *Document* 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

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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 *Freemarker* templating engine	(none)	(none)	Freemarker
Integration Testing Support Library	Provides a set of testing utilities to support integration testing	(none)	(none)	(none)
JAX-RS Client Library	Provides a wrapper around the JAX-RS Client API (as implemented by Apache CXF).	(none)	(none)	Apache CXF
PDFBox Library	Provides a wrapper around *Apache PDFBox*.	(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)	

Module	Description	Implements (SPI)	Requires (API)	(direct) 3rd party dependencies
Servlet API Library	Provides access to various elements of the Servlet API, namely the `ServletContext`, the `HttpServletRequest` and the `HttpServletResponse`. Note that this module is only available through the Wicket viewer, not the REST API.	(none)	(none)	(none)
Slack Library	Provides the ability to post to a Slack channel.	(none)	(none)	Simple Slack API
String Interpolator (OGNL) Library	Provides a mechanism to interpolate string templates with either Isis system properties or values obtained from a domain object, using *OGNL* 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 *XDocReport*, an API to merge XML documents into MS Office (`.docx`) or OpenOffice (`.odt`) files, optionally converting into another format (notably PDF).	(none)	(none)	XDocReport
Zip Library	Zips up a collection of files.	(none)	(none)	(none)