1. GENERATING PDF FILES

To generate a PDF document in a Grape application, we use Apache FOP. The generation process works as follows:

- 1. A database function returning XML text is defined
- 2. An XSL file is created (in app.config.xsl_directory) that transforms the output XML of the database function into XSL-FO
- 3. An API handler for the specific document type is defined, for example /download/policy_document/:policy_id
- 4. The API handler calls app.get('pdfgenerator').generate_and_stream_xml to generate and stream the PDF

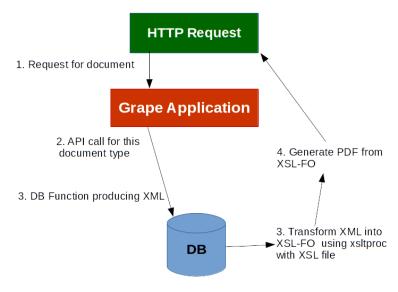


Fig. 1: PDF Generation Process

1.1 XML-producing SQL function

A function returning TEXT containing XML.

1.2 XSL file

1.3 API handler

The API handler will usually make a call to app.get('pdfgenerator').generate_and_stream_xml(options);. The options are:

Notes:

- The XSL file must be located in the application's <u>xsl directory</u>. If a <u>site name</u> is configured, an overriding file can be stored in a subdirectory with the same name (as the sitename)
- The function funcName must return an XML document