

XDocReport Library

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This module [`isis-module-xdocreport`] provides a wrapper around `XDocReport`. `XDocReport` is an API to merge XML documents into MS Office (`.docx`) or OpenOffice (`.odt`) files, optionally converting into another format, notably PDF.

# How to configure/use

## Classpath

Update your classpath by adding this dependency in your dom project's `pom.xml`:

```
<dependency>
  <groupId>org.isisaddons.module.xdocreport</groupId>
  <artifactId>isis-module-xdocreport-dom</artifactId>
</dependency>
```

Check for later releases by searching [Maven Central Repo](#).

For instructions on how to use the latest `-SNAPSHOT`, see the [contributors guide](#).

## Bootstrapping

In the `AppManifest`, update its `getModules()` method, eg:

```
@Override
public List<Class<?>> getModules() {
    return Arrays.asList(
        ...
        org.isisaddons.module.xdocreport.dom.XDocReportModule.class,
        ...
    );
}
```

# API

This module provides a single service, called `XdocReportService`. It has the following API:

```
@DomainService(nature = NatureOfService.DOMAIN)
public class XDocReportService {
    public byte[] render(
        byte[] templateBytes,           ①
        XDocReportModel dataModel,      ②
        OutputType outputType)          ③
        throws IOException { ... }
}
```

① the input template, eg the bytes of a Word `.docx` file

② holds the data to be merged into the template, discussed further below

The `XDocReportModel` parameter holds the data to be merged into the template. It is basically just a map of (`Data`) objects, where each such is either a single object, or is a list of objects:

```
public interface XDocReportModel {

    @lombok.Data
    class Data {
        private final Object obj;
        private final Class<?> cls;
        private final boolean list;

        public static <T> Data list(final List<T> objects, final Class<T> cls) {
            return new Data(objects, cls, true);
        }

        public static <T> Data object(final T object) {
            return new Data(object, object.getClass(), false);
        }
    }

    Map<String, Data> getContextData();
}
```

The `OutputType` meanwhile is simply an enum defining:

```
public enum OutputType {
    DOCX,
    PDF
}
```

# Example Usage

From the unit tests:

```
// given
InputStream in= new FileInputStream(new File(
"src/test/java/org/isisaddons/module/xdocreport/dom/example/template/Project-
template.docx"));
final byte[] templateBytes = IOUtils.toByteArray(in);

Project project = new Project("XDocReport");
List<Developer> developers = new ArrayList<>();
developers.add(new Developer("ZERR", "Angelo", "angelo.zerr@gmail.com"));
developers.add(new Developer("Leclercq", "Pascal", "pascal.leclercq@gmail.com"));
final ProjectDevelopersModel dataModel = new ProjectDevelopersModel(project,
developers); ①

// when
final byte[] docxBytes = service.render(templateBytes, dataModel, OutputType.DOCX);

// then
IOUtils.write(docxBytes,new FileOutputStream(new File("target/Project.docx")));
```

① see below

and

```
@Data
public class ProjectDevelopersModel implements XDocReportModel {

    private final Project project;
    private final List<Developer> developers;

    @Override
    public Map<String, Data> getContextData() {
        return ImmutableMap.of(
            "project", Data.object(project),
            "developers", Data.list(developers, Developer.class));
    }
}
```

# Known issues

None known at this time.

# Dependencies

Maven can report modules dependencies using:

```
mvn dependency:list -o -pl modules/lib/xdocreport/impl -D excludeTransitive=true
```

which, excluding Apache Isis itself, returns these compile/runtime dependencies:

```
org.javassist:javassist:jar:3.19.0-GA  
fr.opensagres.xdocreport:fr.opensagres.xdocreport.template.freemarker:jar:1.0.6  
fr.opensagres.xdocreport:fr.opensagres.xdocreport.converter.docx.xwpf:jar:1.0.6  
fr.opensagres.xdocreport:fr.opensagres.xdocreport.document.docx:jar:1.0.6
```

For further details on 3rd-party dependencies, see:

- [XDocReport](#)
- [Javassist](#)