Topic 8: REST web services
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Marking scheme and deliverables

1. Installation guide, automated build – running `mvn site` in the root of our project Maven will generate the documentation site. We have created four extra pages here. The third one is the **Install Manual** which gives detailed information about the project.

2. Automated testing – in the `pom.xml` file we have added and configured the `maven-soapui-plugin` which automatically performs the tests defined in the

   `${basedir}/src/test/resources/restws-soapui-project.xml` file for the `mvn install` or `mvn jetty:run` goals.

3. Architecture diagram – this has been submitted both as a separate file in the hand-in process and as a page of the site generated by Maven – **Architecture Diagram** (first page).

4. Sequence diagram – this has been submitted both as a separate file in the hand-in process (in the same document with the architecture diagram) and as a page of the site generated by Maven – **Sequence Diagram** (second page).

5. Technology exploitation – the project uses the Apache CXF framework. To see how this was used, please check the classes and interfaces from the packages:

   1. `uk.ac.soton.ecs.forge.restws.interfaces`

   2. `uk.ac.soton.ecs.forge.restws.services`

   and also the `uk.ac.soton.ecs.forge.restws.utils.SecurityManager` class.

6. Security – security has been implemented using HTTPS and BASIC authentication. HTTPS is turned on in the embedded Jetty server by configuring the associated plug-in in the `pom.xml` file (lines 229 – 235). The key store file is generated using a Maven plug-in (lines 160 – 187). Furthermore, the BASIC authentication is configured by specifying a realm (lines 218 – 223) and also by specifying the authentication parameters in the `web.xml` file (lines 24 – 40) inside the `${basedir}/src/main/webapp/WEB-INF` folder.

7. Presentation – the slides have been submitted in the hand-in process and they are also a part of the Maven site (therefore available in the source folder of the project -

   `${basedir}//src/site/resources/slides.pdf`) – the **Presentation** link in the menu located on the left side of the page.