



## JISC Project Quality Plan for RAMBLE

### 1. Quality Expectations

The project will deliver the eLearning Tool(s) as specified in their proposal and refined in the JISC project plan document in line with following standards/guidelines:

- JISC (draft) Open Source Policy May 2004
- JISC (draft) Software Quality Assurance August 2004
- JISC Project Management Guidelines December 2003
- Release versions of development and final code are to placed with <http://sourceforge.net/>
- CETIS project page be maintained to communicate development progress and mapping of software to the ELF (eLearning Framework). <http://www.cetis.ac.uk/>
- Software should meet the high level functional specification as specified in the project plan.
- Software should be robust, maintainable and extendable (see JISC (draft) Software Quality Assurance August 2004).

#### Tolerances

- Cost – project must be completed within agreed grant.
- Time – project must be completed by 31<sup>st</sup> March 2005.
- Scope – given the short time scale of the project the scope of the deliverable (i.e. eLearning Tool(s)) may be narrowed to ensure completion on time and to budget. Any changes to scope must be agreed with the programme manager and documented via the change control procedure.
- Quality – project must adhere to the standards as defined for open standards, open source and software quality

### 2. Acceptance Criteria

Successful completion of an external evaluation of the projects software outputs and development process.

### 3. Quality Responsibilities

Name	Role
Project Manager [PT]	Change control
Project Manager [PT]	Project Documentation
System Analyst [PT,PR]	Hardware and Blog Client Testing
Project Developer [CT]	Software Testing (VLE Blogging tool)
Project Developer [CT]	Software Documentation
System Administrator [NSMS]	System Administration (Blog server)

## 4. Standards and Technologies

The following Web services standards (or *de facto* standards) and software versions will be adopted:

- **Mobile Device client:** Blogger API 1.0 ([http://www.blogger.com/developers/api/1\\_docs/](http://www.blogger.com/developers/api/1_docs/)) or MetaWebLog API (<http://www.xmlrpc.com/metaWeblogApi>) based on XML-RPC
- **Blog server:** Blogger API 1.0, MetaWebLog API for loading blogs; XML storage; newsfeed delivery in Atom 0.3 or draft-ietf-atompub-format-0.2 (<http://www.ietf.org/internet-drafts/draft-ietf-atompub-format-02.txt>) and RSS2.0 (<http://blogs.law.harvard.edu/tech/rss/>),
- **VLE:** Bodington version 2.1.1, <http://sourceforge.net/projects/bodington> . Reading of feeds in RDF1.0 (<http://www.w3.org/TR/rdf-schema/>), RSS 2.0 and Atom 0.3 or draft-ietf-atompub-format-0.2; XSLT1.0 (<http://www.w3c.org/TR/xslt/>) for transformation into XHTML1.0 (<http://www.w3.org/TR/xhtml1/>).
- **Software Development:** Sun Java2 SDK 1.4 (<http://java.sun.com/j2se/1.4.2/>)
- **Documentation:** UML 1.5 (<http://www.omg.org/technology/documents/formal/uml.htm>)

These standards will be implemented by mainstream technologies that support the standards and where possible, openly allow further development, typically through open source software licenses.

## 5. Quality Control and Audit Processes

RAMBLE is one of several projects being undertaken for JISC E-tools. An internal LTG group involving all project managers meets approximately once a month to share best practice and ensure projects are progressing as intended.

The project management tool called **dotProject** (<http://www.dotproject.net>) will store project documentation, manage tasks and issues (using a ticketing system). Being Web-based, this is readily accessible by anyone in the team and can be made available for external inspection. The Quality Tools listed below will be used to help ensure that the standards listed are correctly implemented.

## 6. Change Control and Configuration Management Processes

Changes to the project are discussed at meetings and are minuted. Changes to code are documented using the version control system - **CVS** will be used for software version control on a local server, with uploading of milestone releases to SourceForge. Software will be coded in Java for which **Javadocs** comments will be included in the source. A change history will be maintained for each revision.

A simple version control system will be used for general project documentation.

## 7. Quality Tools

The following tools will help ensure the quality of the deliverables.

**dotProject 1.0** – for overall management

**JUnit 3.8** <http://junit.sourceforge.net/> – for testing Java code

The syndicated feeds will be validated using a validator such as **FEED Validator**  
<http://www.feedvalidator.org/about.html>

**W3C XHTML validator** <http://validator.w3.org/> – for validating the blogs rendered as XHTML