SI Project Brief			
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E-Learning Repository
Project Brief

Amendment History:

Version	Date	Amendment History
1	24/08/2007	First draft for comment

Forecast Changes:

Anticipated Change	When

Distribution:

NLH eLearning Project Team

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This is a draft document.

Contents

1   PURPOSE OF DOCUMENT

The purpose of this document is to provide a firm foundation for the initiation of the project. The project brief specifies the initial view of the scope, objectives and requirements of the project and includes the initial business case, risks, quality and acceptance criteria for the project.

2   PROJECT DEFINITION

2.1 Background

The National Library for Health is a modern, integrated, hybrid service that aims to be 'the best, most trusted health related knowledge service in the world'.

The aim of an eLearning repository is three-fold

- To ensure a safe and sustainable home for eLearning objects relating to healthcare of all kinds

- To provide taxonomy or taxonomies which will enable eLearning to be both discoverable and shareable either directly or through search tools which have been developed as part of the NLH architecture.

- To implement a system of quality assurance; this will enable users to identify the value of the objects and their safety in the context of their application and use.

2.1.1   Project Objectives

To further develop the value of NLH, a repository of e-learning materials will be created, to contain e-learning objects and packages that NLH can offer to their customer base. Building on from that, a scoping study will be carried out to assess requirements such as technical specifications and essential features.

This project underpins the following NLH strategic objectives:
a. Enable safer, better healthcare via the development of knowledge-based health services.
b. To drive up the quality of knowledge provided through the NLH services.

Related projects:

Knowledge Bank, NLH Staff Development, Specialist Library content development.

2.1.2   Rationale for the project

The mission of the NHS Institute is to "improve health outcomes and raise the quality of delivery in the NHS by accelerating the uptake of proven innovation and improvements in healthcare delivery models and processes, medical products and devices and healthcare leadership."

2.2 Project Scope

The key objectives of the **e-learning repository project** are:

- To procure an eLearning object repository that conforms to NLH enterprise architecture requirements and will integrate with NLH MyLibrary.

- To provide an extensible search and discovery platform (via web services) for elearning objects held but within the repository and at external locations.

- To identify, quality assure, manage and classify elearning objects

- To provide training and ongoing support to NLH Users and Institute Partners, once the selected Repository service is in place.

- To identify an NHS user base for the elearning object repository and develop a community of practise around elearning resource development and sharing.

2.2.1 In Scope
The procurement of a managed service to supply a national repository to house eLearning objects for the NHS which is structured by the use of an agreed taxonomy or taxonomies to enable best access to eLearning by the NHS Institute in the first instance and by key strategic partners in the future.

2.2.2 Out of Scope

The development of a platform to deliver and manage eLearning for the NHS.

2.3 Key Stakeholders

- NHS Institute NLH Team
- Specialist Libraries
- Health care Library staff
- Strategic Health Authorities (representing NLH customers)

2.3.1 Potential partners

- NHS Institute
- Department of Health Learning for Health e-learning programme team

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- NHS Connecting for Health Education and Training Department
- The NHS Core Learning Unit
- ScHaRR - FOLIO e-learning objects
- West Midlands Library Unit programme (Moodle VLE)
- CETL Reusable Learning Objects Project

2.4   Outline Project Deliverables

Project deliverable	Risks associated
Procure and implement an E-learning repository that conforms to NLH EA requirements.	Staff capacity, lack of engagement from stakeholders and partners. System or service not adequate
To provide an extensible search and discovery platform (via web services) for elearning objects held but within the repository and at external locations.	No Joined up Taxonomies available. Repository service may not support machine to machine search interfaces.
Develop an editorial service to identify, quality assure, manage and classify elearning objects	QA system could require extensive expert input
To provide training and ongoing support to NLH Users and Institute Partners, once the selected Repository service is in place.	Staff capacity. Ongoing funding.
To identify an NHS user base for the elearning object repository and develop a community of practise around elearning resource development and sharing.	Staff capacity. Ongoing funding. lack of engagement from stakeholders and partners. System / infrastructure not scaleable upwards

2.5   Constraints

There could be insufficient staff capacity and funding to develop the repository.

2.6 Dependencies

- National eLearning Alliance (including CfH) supporting this approach
- The Institute for Innovation and Improvement agreeing this as part of NLH business planning
- Sustainable funding models

3 BUSINESS CASE

This project supports the following key strategic objectives

- Value For Money
- Do Once and Share
- Modernisation

This project will support staff development and lead to more efficient working practice and innovation.

3.1 Business Benefits

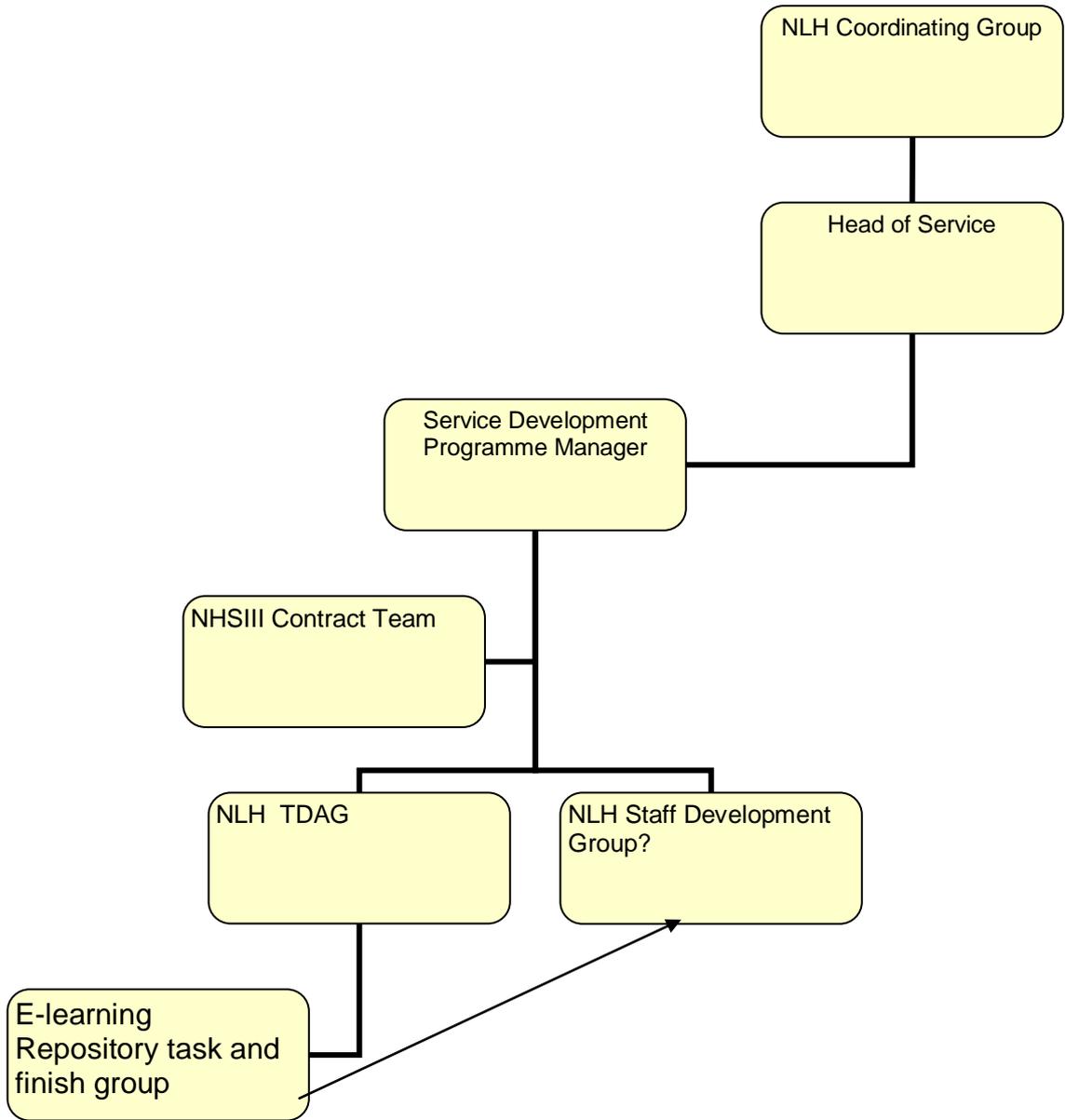| Benefit	Explanation
Improved value for money	Less time and money will be spent on creating and purchasing content - Gershon efficiencies
Do Once and Share	Supports the principle of create learning once and share benefits making better use of time and skills
Modernisation	As knowledge increases through learning, service delivery will be improved through innovation.

3.2 Business Options

3.2.1 Options Available

Option	Evaluation

Do nothing	None of the potential cost savings will be made. Duplication of effort will continue.
Identify and use existing e-Learning Repository Systems and services	This is an option that should be considered, but it must be in the context of developing a repository that is accessible to all staff in the NHS..
Develop an e-learning repository in house	This will have the benefit of being designed by and for NLH customers. However it is likely that this will prove to be too expensive in terms of development and support and will take one-two years in development time

3.2.2   Recommended Option

Options 2 is the preferred option as option 3 will not be possible at the moment as sufficient funding is not available.

4   ORGANISATIONAL STRUCTURE

NLH Coordinating Group

Head of Service

Service Development Programme Manager

NHSIII Contract Team

NLH TDAG

NLH Staff Development Group?

E-learning Repository task and finish group

5   CRITICAL SUCCESS FACTORS

Funding is adequate. Software and service to be adequate made available and used.

6   RISKS

Describe any risks that are known at this time, how they are being dealt with and who is responsible for owning and resolving the risk.

7   OUTLINE PROJECT PLAN can be amended following discussion.

Month	Description	Money
June–July2007	Identify potential Institute partners	
July– Aug 2007	Identify existing e-learning repository services	
Aug -Sept	Investigate Taxonomies join Medbiquitous	£2k
Sept 2007	Develop OBS and issue Tender	
Oct 2007	Form evaluation group and award Contract	£90+k
Oct – Nov 2007	Meet with Suppliers and agree project plan.	
Early Dec 2007	Identify and agree pilot	
Jan-March 2008	Run Pilot	
Jan– March 2008	Design and develop Training materials/events	£18k
April 2007–Sept 2008	Rollout to other users in phases.	
Oct 2008	Evaluate, Review and report	
TOTAL		£110k

Appendix 1 Features of Intralibrary system System for Guidance

Version 2.8

Administrator
Further performance improvements in user and group management
Managing vocabularies: • Adding and removing vocabularies • Importing vocabulary terms in VDEX format • Editing vocabulary terms and labels
Image-specific features
Search results: • "Images" view of search results, showing image thumbnails • Select thumbnail to see larger view and details Metadata: • Read metadata from imported (JPEG) image file • Use image metadata in extended metadata template • Export image metadata as extension to LOM
Contributor
Upload or import multiple files/packages Multilingual metadata and classification editor Stemming in languages other than English
Integration and Interoperability
Importing learning objects via Java API Support for metadata formats: • Import of Dublin Core, eGMS metadata • Reading EXIF image metadata • Storage and export of subset of NISO Z39.87

Version 2.9

Project Management
Version management: **Store previous versions of updated objects**
Integration and Interoperability
Simple Blackboard Vista/CE (WebCT) integration
Reporting
Logging API **Reporting extensions to existing Java API**
Underlying technology
Java 1.5 and Tomcat 5.5
MySQL 5

Version 3.0

User Interface
Remove framesets and improve consistency **Accessibility improvements:** • **Search & browse interfaces meet WAI guidelines for web applications** • **"Breadcrumbs view" of taxonomy browser**
Project Management
Version management: • **Options to access most-recent or specific version**
Integration and Interoperability
Deposit web service **More VLE (Blackboard, Moodle…?) integration**
User
Collect multiple resources and download in one file (My Basket) **Record objects of interest to user (My Favourites)**

User

User
Searching of text content (HTML, PDF, Word?)
Select preferred metadata fields for object listing   Deep searching of content packages: • Optional, visible disaggregation of packages   • **Show structure of hierarchical package**
Connectivity
WebDAV integration to desktop: • **drag and drop files into intraLibrary web folder**   • **save straight to intraLibrary from authoring or package tool**
Interoperability
Global Identifiers : Handle integration
Administration
Administrator can configure default user preferences   **Workflow editor**
Performance & Scalability

Desirable Features (Non-Essential)

User
Page turning view of SCORM packages **Search within taxon node** **Find more objects with this property**
Case sensitive search
Admin
Bulk import of users and groups (IMS Enterprise)
Web interface
Graphical indicator of object type (text/media/application/package)
Rights Management
Search by rights metadata
Accounting of user access to objects
Connectivity
Blackboard "Building Blocks" integration module **Moodle integration (JSR-170?)** **Live addition of plugins to intraLibrary**
Federated searching of external repositories using SRW/SRU
Harvest from other repositories using OAI-PMH
Interoperability
IMS Content Cartridge
Preview IMS Simple Sequencing
Filters for older versions of IMS MD
OpenURL for public access to objects
Metadata
Taxonomy: import/export of ISO Topic Maps standard
Application of "templets" to sub-sections of metadata records
Editable templates stored in "My Templates"
Taxonomy synchronisation
Taxonomy export
Underlying Technology
Improved product license solution
Abstraction of content store (e.g. using JSR-170)