UNIVERSITY COLLEGE LONDON

Department of Computer Science

British Library Big Data Experiment – Week 4 Progress Report

Authors:

Nektaria Stavrou

Stelios Georgiou

Wendy Wong

Stefan P. Alborzpour

1. Overview of Activities

LAST WEEK KEY ACTIVITIES

- Performed a risk analysis of the project.
- Created an initial high level project plan incorporating development cycles.
- Received feedback from Dean Mohamedally on the project Requirements.
- Accomplished project goal modelling.
- Created use cases along with user scenarios.
- Generated a reading list for similar methodologies which address our project's objective.
- Meeting with Graham Collins (UCL Lecturer) to review the risk analysis.
- Meeting with Emmanuel Letier (UCL Lecturer) to review goal modelling.
- Meeting with Melissa Terras (UCL Digital Humanities) to review project requirements.

THIS WEEK KEY ACTIVITIES

- Developed a high level project plan. The final version will be revised after the agreement of requirements with the stakeholders.
- Created a set of UML Designs.
- Nektaria and Stelios prepared and gave an internal presentation for GZ07 (Professional Practice)
- Created a live collaboration document for the stakeholders to review the requirements.
- Setup a Team Foundation Server as the project repository.
- Began working on the user interface of the BL web portal.
- Developed test cases for the front end (User interface testing).
- Meeting with Microsoft for guidance on Azure technologies as well as a review of both project requirements and plan.
- Meeting (Skype) with James Baker to review project progress.

NEXT WEEK KEY ACTIVITIES

- Review software architecture of the new system with domain experts.
- Continue the development of the user interface of the BL web portal.
- Start the implementation of keyword search feature.
- Setup test case for HDInsight framework.
- Attend a British Library Labs Project event – *'Working with the British Library's Digital Collections and Data'*.
- Meeting with James Baker to finalise requirements document.

2. Deliverables

Description	RAG Status
Conceptual Model The conceptual model was conceived by the team. This model captures the main entities of the software-to-be along with the interactions between them.	**Green**
Sequence Diagrams Each of the user scenarios was illustrated through a sequence diagram. This type of UML diagram enables the team to visually model the flow of logic within the system. The diagrams represent the flow of messages, events and actions between the system entities.	**Amber**
Software Architecture Model The architectural style of the proposed system was agreed and designed. The model defines a set of principles – a coarse grained pattern that provides an abstract framework for a family of systems. An architectural style improves partitioning and promotes reuse by providing solutions to frequent recurring problems.	**Green**
External Comms Write an external comms piece on behalf of the team to be published to the British Library Digital Scholarship blog website.	**Amber**
Test Cases for User Interface A set of conditions was produced in order to determine whether the user interface of the web portal is user friendly. The main criteria for the test cases are; easy to use, to remember, recall and learn.	**Green**

3. Risks and Issues

Risk	Description	Status
Internal presentation overhead.	Two of the team members had course commitments. This required them to prepare an internal presentation which caused the team an extra workload overhead which was not schedule for in the high level project plan.	**Resolved**
Software architecture model	The proposed architecture has not been reviewed by domain experts. *Update (27-06-2014):* Unresolved – The software architecture of the system will be reviewed by domain experts in the following week.	**Unresolved**

4. MSc CS Project Scopes

WENDY WONG

Wendy's project scope will focus on developing the frontend for the search feature set. This covers the research behind an intuitive interface with optimised usability and HCI. Throughout development, she will conduct usability tests, focussing her research to ensure that the user interface is optimised to the needs of the researchers and other users. In addition to this, she will be aiding in the implementation of the recommender service itself, and its integration into the interface.

STEFAN P. ALBORZPOUR

Stefan will contribute by working with big data and Microsoft Azure HDInsight. He intends to examine "Big data search performance, how this is affected as the data volume scales up." This will begin with how a system performs on skeleton data. This shall relate to the requirement on advanced search features for the British Library catalogue.

5. Minutes

Meeting 1 – Appointment with Microsoft Representatives

Date	Time	Location
Monday 23rd June 2014	13:00 – 14:30	Malet Place Engineering Building, room 1.99

Attendees	Geoff Hughes (GH), John Donnelly (JD), David Gristwood (DG), Nektaria Stavrou (NS), Stelios Georgiou (SG), Wendy Wong (WW), Stefan P. Alborzpour (SA)
Apologies	
Minutes	Stelios Georgiou

Agenda Item – Points Discussed	Type Action, Decision or Info
1 – Introductions	
1.01 The team was introduced to the Microsoft Representatives.	Info
2 – Project Overview	
2.01 The team members had thoroughly investigated and discussed the project overview with the Microsoft Representatives. DG mentioned that he was previously involved in the digitization of resources for British Library.	Info
2.02 It was outlined that the project is highly valued within Microsoft. In the future British Library and Microsoft are planning to publish the project for the public enquiry.	Info
3 – Requirements	
3.01 The product specific requirements were reviewed. The importance of trending materials was emphasised.	Info
4 – Project Plan and Agile Project Management	
4.01 The initial project plan was reviewed by GH, JD and DG. The team asked for some project plans from small scaled industrial projects in order gain a better understanding of the iterative and incremental methodology.	Info
4.02 JD highlighted that there is a mismatch between the project plan and the requirements documentation. He suggested that it should be an intermediate document to incorporate agile methodology.	Action
5 – Technical Aspects of the Project	
5.01 The Microsoft Representatives outlined that the solution must be published on the Windows Azure Marketplace. This will turn the solution a set of open APIs accessible to public enquiries.	Info
5.02	Decision

The programming language and environment of the proposed solutions was discussed. It was agreed that C# programming language and Microsoft Visual Studio integrated development environment will be used.	

New Action Items	Owner	Due Date
Create intermediate requirements document.	NS	02-07-2014

Meeting 2 – Progress meeting with James Baker

Date	Time	Location
Thursday 26th June 2014	13:00 – 13:30	Skype Meeting

Attendees	James Baker (JB), Nektaria Stavrou (NS), Stelios Georgiou (SG), Stefan P. Alborzpour (SA)
Apologies	
Minutes	Stelios Georgiou

Agenda Item – Points Discussed	Type Action, Decision or Info
1 – Progress Review	
1.01 The overall progress of the project was outline.	Info
1.02 The outcome of the meeting with Microsoft Representatives was reviewed.	Info
1.03 JB invited the team members to the British Library Labs Project event.	Info
1.04 JB gave further directions for writing the external comms.	Action
2 – Future Actions	
2.01 JB invited the team for a meeting on Monday the 30th of June to review the product specific requirements.	Info
2.02 JB informed us that he will be away from 6th of July until the 12th of July.	Info

New Action Items	Owner	Due Date
External comms piece.	SA	30-06-2014