# UNIVERSITY COLLEGE LONDON

## Department of Computer Science

**British Library Big Data Experiment – Week 3 Progress Report**

**Authors:**

Nektaria Stavrou

Stelios Georgiou

Wendy Wong

Stefan P. Alborzpour

# 1. Overview of Activities

**LAST WEEK KEY ACTIVITIES**

- Drafted requirements document.
- Examined the British Library dataset.
- Created a system context diagram.
- Meeting with James Baker and Ben O'Steen to ask questions about the dataset.

**THIS WEEK KEY ACTIVITIES**

- Performed a risk analysis for 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.

**NEXT WEEK KEY ACTIVITIES**

- Develop initial high level project plan further.
- Establish a first draft of detailed project plan.
- Meeting with Microsoft for guidance on Azure technologies as well as a review of both project requirements and high level plan.

# 2. Deliverables

| Description | RAG Status |
|---|---|
| **Risk analysis**<br>In total thirteen risks have been identified as potential threats to the success of the project.  The impact for each risk was evaluated across the duration of the project and assigned a risk rating by the team.  For each risk considered mitigation actions were prepared and a contingency plan conceived. | **Green** |
| **High level project plan**<br>From the requirements documentation a high level project plan was developed. The team selected the agile development methodology and incorporated several development cycles into the plan. | **Green** |
| **Goal modelling**<br>To better appreciate the project and the desires of the stakeholders requirements documentation was used to perform goal modelling.  This tool assisted in understanding the users' needs of the system. | **Green** |
| **Use cases & user scenarios**<br>Progressing on from project goal modelling the team established individual use cases each supported by detailed user scenarios. | **Green** |

# 3. Minutes

*Meeting 1 – Appointment with Graham Collins (UCL lecturer)*

| Date | Time | Location |
|---|---|---|
| Wednesday 18th June 2014 | 14:00 – 15:00 | Malet Place Engineering Building, 5th floor lobby |

| | |
|---|---|
| **Attendees** | Graham Collins (GC), Nektaria Stavrou (NS), Stelios Georgiou (SG), Wendy Wong (WW), Stefan P. Alborzpour (SA) |
| **Apologies** | |
| **Minutes** | Wendy Wong |

| Agenda Item – Points Discussed | Type<br>Action, Decision or Info |
|---|---|
| **1 – Risk analysis** | |
| **1.01**<br>GC offered feedback on the team's risk analysis. | Info |
| **1.02**<br>GC advised that there should be a constant update of risks. | Info |
| | |
| **2 – Requirements and search** | |
| **2.01**<br>With regard to the requirement specifying search functionality, GC advised that the search should be elastic. | Info |
| **2.02**<br>GC talked about typical metrics such as speed and scalability. | Info |

| New Action Items | Owner | Due Date |
|---|---|---|
| | | |
| | | |
| | | |

*Meeting 2 – Appointment with Emmanuel Letier (UCL lecturer)*

| Date | Time | Location |
|---|---|---|
| Thursday 19th June 2014 | 16:00 – 17:00 | Malet Place Engineering Building, room 7.18 |

| | |
|---|---|
| **Attendees** | Emmanuel Letier (EL), Nektaria Stavrou (NS), Stelios Georgiou (SG), Stefan P. Alborzpour (SA) |
| **Apologies** | Wendy Wong |
| **Minutes** | Stefan P. Alborzpour |

| Agenda Item – Points Discussed | Type<br>Action, Decision or Info |
|---|---|
| **1 – Requirements** | |
| **1.01**<br>EL provided an overall feedback on the project requirements. | Info |
| **1.02** | Info |

| | |
|---|---|
| EL advised that it is necessary to understand the context in which something needs to be used because it will make more sense. One should understand the application domain. | |
| **1.03**<br>EL advised that it is necessary to understand the context in which something needs to be used because it will make more sense. He also noted that the point is to understand the requirements from the stakeholders' perspective, in their language and not the language of the implementation. | Info |
| **1.04**<br>EL suggested the team should carefully consider non-functional requirements, scalability, performance and the number of simultaneous users are all important because this will impact the architecture and the testing. | Info |
| | |
| **2 – Goal modelling** | |
| **2.01**<br>With regard to the purpose of goal modelling, EL advised a model is only useful if it helps one to understand and also to communicate with others. | Info |
| **2.02**<br>On inspection of our goal modelling diagram, EL explained that the parent goal is very vague and does not help. He also clarified that it is not necessary to have a single model where all of the goals are linked to one parent goal, it is possible to have independent goal models. | Info |
| | |
| **3 – Build methodology** | |
| **3.01**<br>EL emphasized that it is important to build the system incrementally, piece by piece. Start with the minimal system first, then incrementally build up, often when people see the first prototype they might say, *"oh, what I'd like now is this and this,"* which may be different from what they agreed when the project began. | Info |

| New Action Items | Owner | Due Date |
|---|---|---|
| | | |
| | | |
| | | |

## *Meeting 3 – Appointment with Melissa Terras (stakeholder)*

| Date | Time | Location |
|---|---|---|
| Wednesday 20th June 2014 | 10:00 – 11:00 | Foster Court, room G15a |

| Attendees | Melissa Terras (MT), Nektaria Stavrou (NS), Stelios Georgiou (SG), Wendy Wong (WW), Stefan P. Alborzpour (SA) |
|---|---|
| **Apologies** | |
| **Minutes** | Wendy Wong |

| Agenda Item – Points Discussed | Type<br>Action, Decision or Info |
|---|---|
| **1 – Requirements finalisation** | |
| **1.01**<br>MT offered overall feedback on the project requirements. | Info |
| **1.02** | Info |

| | |
|---|---|
| MT advised that after searching researchers should be able to download files. | |
| **1.03** <br> Clarification was given by MT regarding paradata, it is methodology of collection. | Info |
| **1.04** <br> On the topic of importing and exporting material (or datasets), the usage of SPSS and R was discussed.  R is available as free software under the terms of the Free Software Foundation's GNU General Public License in source code form however, this is not the case for SPSS and MT felt that the team should communicate with IBM about using SPSS. | Action |
| **1.05** <br> MT identified that it is important for the researchers to be able to: <br> 1) Order their search results, <br> 2) Receive results of the most popular item, <br> 3) Select whether to search through OCR texts or not (toggling of OCR). | Info |
| **1.06** <br> One important aspect for MT is the use of analytics to ascertain how the service is utilised.  Mapping was also mentioned as a possibility for future development. | Info |

| New Action Items | Owner | Due Date |
|---|---|---|
| Contact IBM regarding the use of SPSS. | WW | 04-07-2014 |
| | | |
| | | |