**Requirements Documentation**

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| **Requirements Catalogue Entry** | | | |
| **System:**  Quality assessment of LOD for potential dual use | | **Date:**  12/05/2016 |
| **Author:** Group C | | **Pages:**  2 |
| **Functional Requirements** | | | |
| FR\_01 | Identify the malicious words in the query | |
| FR\_02 | Data Set profiling for Dual-Use scenario | | |
| FR\_03 | Define and Test Dual-Use Metrics | | |
| FR\_04 | Block answer of malicious queries | | |
| FR\_05 | Create quality Report | | |
| FR\_06 | Create a log for malicious queries | | |
| FR\_07 | Possibility to modify response | | |
| **Non-Functional Requirements** | | | |
| An efficient system ensuring high performance for large datasets | | | |
| Well documentation of navigational files | | | |
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| **Related Documents** | | | |
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| **Suggested Solution** | | | |
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**Functional Requirements:**

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| **Req\_ID** | **Specification** | **Comments** | **Priority** | **Date reviewed** | **Approved by** |
| **FR\_01** | * Tokenization of the question. * Query the tokens and combination of tokens. | JAVA  SPARQL  Dbpedia  WikiData | 1 |  |  |
| **FR\_02** | * Extracting from the knowledge base the words which belong to malicious topics | JAVA  Dbpedia  WikiData | 1 |  |  |
| **FR\_03** | * Intersection of the query results and the profiles. * Calculate for every token and combination of tokens a fitness ratio. * Calculate the question fitness ratio. | JAVA | 1 |  |  |
| **FR\_04** | * Comparing the fitness ratio to a predefined threshold. * Mark the question as malicious or safe. | JAVA | 1 |  |  |
| **FR\_05** | * Generate report with statics about the question. | JAVA | 2 |  |  |
| **FR\_06** | * Logging the malicious queries. | JAVA | 2 |  |  |
| **FR\_07** | * Modify or prone it as appropriate if necessary. |  | 3 |  |  |

**Non-Functional Requirements:**

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| **Requirement** | **Description** |
| An efficient system ensuring high performance for large datasets | Due to using technologies as RDF and HashMaps. |
| Well documentation of navigational files | Setup configurations, readme, other third party tools or libraries used. |