

**Project Status Report**



**Project Name:** Medical Question Answering Systems

**Department:** SOCIT

**Focus Area:** Question Answering

**Product/Process:** Question Answering System



**Prepared By:**

|  |  |
| --- | --- |
| **Document Owner(s)** | **Project/Organization Role** |
| John Patrick Amata | Project Manager/Developer |
| Immanuel Espiritu | System Analyst/Designer |
| Jayvee Febrer | System Analyst/Designer |

**Project Status Report Version Control**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Change Description** |
| 1.0 | 7/19/2016 |  | Document created |
| 1.1 | 8/2/2016 |  | List of Preferred Research Topics |
| 2.0 | 8/9/2016 |  | Changed Topic to NLP: QA |
| 2.1 | 8/16/2016 |  | Research on the Basic Components and Tools for NLP: QA |
| 2.2 | 8/23/2016 |  | Completed: Grammar Parsing for Question Processing |
| 2.3 | 9/25/2016 |  | Revised the Schedule and Plans |
| 2.4 | 10/2/2016 |  | Ongoing: Simplify questions for the corpus |
| 2.5 | 10/10/2016 |  | Review Grammar Checking Model |
| 2.6 | 10/16/2016 |  | Continued the development of the Question Processing Module |
| 2.7 | 10/23/2016 |  | Developed a bot to show proof of concept |
| 2.8 | 11/13/2016 |  | Exploring the new Apache Framework |
| 2.9 | 11/20/2016 |  | Started developing the application under ElasticSearch |
| 3.0 | 11/27/2016 |  | QA System Now Utilises ElasticSearch |

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# PROJECT STATUS REPORT PURPOSE

This is a document that Project Managers may use as a means of formal regular reporting on the status of a project to key project stakeholders, including the Steering Committee, Project Sponsor, and Senior Manager.



# PROJECT STATUS REPORT

|  |  |  |
| --- | --- | --- |
| Medical Question Answering: Revisited | | |
| Prepared By:  John Patrick Amata Immanuel Espiritu  Jayvee Febrer | Date:  11/27/2016 | Reporting Period:  11/21/2016 to 11/27/2016 |
| Project Overall Status: The project has taken a drastic change due to a shift of using ElasticSearch for the bulk of the process. | | |
| Project Summary: The goal of the project is to develop a software similar to IBM Watson wherein ours uses NLP and traditional information retrieval methods; shortly after, implementation of an End to End Memory Network will be architected for thesis work. | | |
| **Milestone Deliverables performance reporting over last period**   |  |  |  |  | | --- | --- | --- | --- | | **Milestone Deliverables** | **Due Date** | **% Completed** | **Deliverable Status** | | Research I: Foundational Research | | | | | * Question Answering Systems | 8/16/2016 | 100% |  | | * Medical Domain | 8/16/2016 | 100% |  | | * Tools/Frameworks/IDEs | 8/16/2016 | 100% |  | | Code the Grammar Parsing Element for Question Processing | | | | | * Study Stanford CoreNLP | 8/23/2016 | 100% |  | | * **OPTIONAL**: Study Apache OpenNLP | 8/23/2016 | 100% |  | | * Tokenization | 8/23/2016 | 100% |  | | * Find Parsing Models | 8/23/2016 | 100% |  | | * Parse Tree for Grammatical Structuring | 8/23/2016 | 100% |  | | * Commit to Github | 8/23/2016 | 100% |  | | | |
| **Milestone Deliverables scheduled for completion over next period**   |  |  |  |  | | --- | --- | --- | --- | | **Milestone Deliverables** | **Due Date** | **% Completed** | **Deliverable Status** | | Traditional Question Answering System | | | | | * Question Processing | 11/10/2016 | 100% |  | | * Passage Retrieval | 12/09/2016 |  |  | | * Answer Extraction | 12/15/2016 |  |  | | * Research II | 12/18/2016 |  |  | | Miscellaneous | | | | | * Review Grammar Models | 10/31/2016 | 100% |  | | * Proof of Concept Bot | 10/23/2016 | 100% |  | | * Simplify questions for the corpus | 11/29/2016 | 100% |  | | * Implement Apache Lucene | 11/29/2016 |  |  | | * Implement ElasticSearch | 11/30/2016 |  |  | | Question Answering System with Neural Network/Machine Learning | | | | | * Research III | 12/30/2017 |  |  | | * Collect & train data for corpus | 1/15/2017 |  |  | | * Implement on Traditional Question Answering System | 2/1/2017 |  |  | | Thesis Work | | | | | * Research IV | 2/15/2017 |  |  | | * Evaluation | 2/25/2017 |  |  | | * Documentation | 3/1/2017 |  |  | | | |
| **Project impact of milestone success or failure for project remainder**   |  |  | | --- | --- | | Potential Scope Changes: The neural network chosen to be implemented on the “Traditional” QA System could change the scope of the project. | Milestone deliverable due dates will be subjected to change depending on the neural network. | | | |
| **Project** **Budget/Financial Status**   |  |  |  |  | | --- | --- | --- | --- | | **Budget Item** | **Planned Budget** | **Actual Cost** | **Variance/Explanation** | |  |  |  |  | |  |  |  |  | | | |
| **Project Risk Management Status**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Risk and Description** | **Risk Chance** | **Risk Impact** | **Risk Priority** | **Change from Last Review** | |  |  |  |  |  | |  |  |  |  |  | | | |
| **Project Issue Management Status**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Issue and Description** | **Project Impact** | **Target Due Date** | **Issue Status** | **Issue Resolution** | |  |  |  |  |  | |  |  |  |  |  | | | |
| **Project Recommendations** | | |
| **Objectives for Next Project Status Review**   |  | | --- | | An update with the finished question processing component and a review of any possible needs that might arise. | | | |
| **Related Project Information**   |  | | --- | | * http://projects2.apc.edu.ph/wiki/index.php/Project\_-\_Medical\_Question\_Answering\_System\_-\_136 * https://github.com/seans888/Project---Disaster | | | |



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# PROJECT STATUS REPORT APPROVALS

**Prepared by** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Manager – John Patrick Amata

**Approved by** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Advisor – Dr Lorena Rabago



# APPENDICES

## Document Guidelines

## Project Status Report Sections Omitted

