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Project Design Plan

HL7 Scrubber

Version 1.0

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# Project Design Plan

## Project Idea

This project will allow quick and efficient scrambling of PHI inside of HL7 messages

## Project BENEFITS TO STC

This project will decrease the amount of time our customer representatives and helpdesk will spend on scrubbing HL7 messages of PHI prior to distribution. Current estimates for this process done manually is 5 minutes for a single grouping of PID, PD1, NK1, and PV1 segments. This project will reduce the time required to less than 10 seconds.

This project will help reduce the amount of exposed PHI present in STC’s in house and on the cloud data. This will help reduce the likelihood of liability if data becomes exposed to non-authorized entities.

## Project BENEFITS TO Clients

This project will help reduce the amount of PHI exposed by STC’s clients, and by doing so lower the time and resources spent in scrubbing PHI manually.

This project will assist them in identifying what is PHI and what is not in HL7 messages.

This project will assist the clients in the submissions to the Jira ticketing system so as to prevent Jira from damaging HL7 messages when it applies formatting to it.

## Team structure

Developers (2)

QA (1)

Manager (1)

HL7 and HIPAA Consultant (1)

### Team goals

* Ensure the project operates without error.
* Establish a framework for future improvements
* Keep the project fast and efficient so as to maintain its desirability.

### Team assignments

**HL7 Scrubber project team**

| Team member | Goal | Estimated |
| --- | --- | --- |
| Lead Developer | Design and develop code base for project. | 0 hours. Development occurring off company time |
| Developer | Code Review to ensure code meets STC quality standards and causes no harm. | 2 hours |
| QA | Quality Assurance to establish the project does as advertised and find unseen errors | 4 hours |
| Manager | Handle decisions to be made concerning distribution, marketing, and legal | ? Hours |
| HL7 and HIPAA Consultant | Review choices made for PHI scrubbing in HL7 messages. | 2 hours |

## Risks and issues management

### Potential exceptions and problems

* Project was designed in Java 7. There may be incompatibilities with other versions.

### Appropriate corrective measures

Additional Testing in Java 6 and 8

### Tracking risks and issues

| Date recorded | Risk description | Probability | Impact | Mitigation plan |
| --- | --- | --- | --- | --- |
| 8/17/2015 | Java 8 Version Compatibility | Low | Failure of Project as clients upgrade systems | Build project in Java 8 and Regression test |
| 8/17/2015 | Java 6 Version Compatibility | Medium | Smaller number of potential users | Encourage clients to upgrade to more secure and robust Java version |
| 8/17/2015 | HL7 Spec Changes | High | Minimal | Analysis and update of code to bring to spec |
| 8/17/2015 | PHI determination changes | Low | Minimal | Analysis and update of code to bring to spec |

## Change management process

### Change management process steps

Project Code will be transferred to and stored in STC git repository.

Changes will be committed as branches of master file and merged after appropriate code review.