Software Project Management Plan (SPMP) for

Encrypted Chatting Project

*Baseline version 0.1*

*Issued on : August 3, 2015*

Issued by : Stefanus Denny Yahya

Issued for : Robertus Hudi

**Signature**

The following signature indicates approval of the enclosed Software Project Management Plan.

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AnotherBlabla Client Executive Committee representative

**Change History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Changes** |
| 0.1 | July 5, 2015 | Stefanus Denny Yahya | Added AES Algorithm |
| 1.0 | July 5, 2015 | Stefanus Denny Yahya | Initial version |
| 1.1 | July 27, 2015 | Stefanus Denny Yahya | Replaced AES with Caesar Chiper Algorithm |
| 1.2 | July 27, 2015 | Stefanus Denny Yahya | Added Integration Testing |
| 1.3 | July 30, 2015 | Stefanus Denny Yahya | Added Unit Testing and Data Collection |

**Preface**

This document delivers the proposed plan to be taken by Stefanus Denny Yahya to meet the needs of software for Mr. Robertus Hudi. In order to do so, it will deal only with the delivery of the software components in regards to the related project, which have dependencies on the hardware and network portions of the product, which Mr. Robertus Hudi has been notified beforehand.

This document is created purposely for Universitas Pelita Harapan (UPH). Prior to the acceptance from Universitas Pelita Harapan (UPH), this document will be used by UPH’s project manager as well, and by project members and participants as a guidance to keep things accordingly.

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**Chapter 1**

**INRODUCTION**

* 1. **Project Overview**
     1. **Purpose, Scope, and Objectives**

The purpose of this project is to analyze the requirements of, design, implement, and maintain the software for Universitas Pelita Harapan (UPH), which is designated specifically to help in monitoring this application according to the requirements specified by the client.

Any activity directly relates to the purpose is considered to be in scope, otherwise it is considered to be out of scope. For instance, hardware failure is out of scope of this project.

The objectives of the project are mentioned as follows :

* Complete the project by the due date.
* Complete the project within the budget.
* Provide all deliverables identified in all section by the due date.
* Meet all the requirements that are mentioned in the SRS, which fall into one of these categories
  + Central database
  + Desktop application
  + Backend
    1. **Assumptions and Constraints**

Here is the list of all assumptions that are made :

* This project is done to increase our ability to create a software
* This project is complete and need to improve of specification.
* This Project only contains the application.

Here is the list of all constraints that are made :

* Budget
  + Rp 1.000.0000,.
* Time
  + 1 months
  + After the software is installed on the hardware, it will take 30 days for Mr. Robertus Hudi to install the physical hardware in the permanent location
  + After the physical hardware is permanently installed, Mr. Robertus Hudi will have 60 days of free maintenance. After that, maintenance fee will not exceed Rp 200.000,. per year.
* Staff
  + A representative from Mr. Robertus Hudi will be required to assist in the requirements making. This representative will have the full authority in creating the final requirements, which will be evaluated and agreed by Universitas Pelita Harapan (UPH)
  1. **Project Deliverables**

Here is the list of all items that will be available by the completion of the project.

* Software program, along with its environment and supporting libraries.
* Software documentation
* Installation of software program along with its environment and supporting libraries.
* Software training for users
* Project documentation
  + Software Project Management Plan (SPMP)
  + Software Requirement Specification (SRS)
  + Software Design Description (SDD)
  + Software Test Documentation (STD)
  + Software Test Plan (STP)
  + Software Quality Assurance Plan (SQAP)
  + Software Configuration Management Plan (SCMP)

**Chapter 2**

**PROJECT ORGANIZATION**

1. **Software Process Model**

The model of the software process will be open-source, based on GitHub. Anyone can download, modify, and compile to their own requirements.

1. **External Interfaces**

There are no known external interfaces on this project, however internet and lecture materials may contribute to this project.

1. **Internal Structure**

Only one member in this project, Stefanus Denny Yahya. Stefanus Denny Yahya do the coding of the software and built the paper designer.

1. **Roles and Responsibilities**

*In general, this part gives information about who will be responsible in doing tasks or deliverables that are needed. As a suggestion, you can use Responsibility Assignment Matrix (RAM). Definition about RAM can be found online or on literature. Following is an example of how RAM looks like. As a side note, you are required to have at least 25 WBS (main WBS), therefore you should at least have 25 ID’s in this table. Every individual that is mentioned in your internal structure (2.3.) must be included in this table as well.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | WBS | Deliverables | CEO | Project Manager | Requirement Analyst 1 (Lead) | Requirement Analyst 2 | Programmer 1 (Lead) | … |
|  | 1 | Encrypted Chatting Project |  |  |  |  |  |  |
|  | 1.1 | Software Lifecycle Model Process |  |  |  |  |  |  |
| 1 | 1.1.1 | Select project model |  | L |  |  |  | … |
| … | … | … | … | … | … | … | … | … |
|  | 1.2.4 | Plan Project Management |  |  |  |  |  |  |
| 13 | 1.2.4.1 | Create baseline WBS |  | L | C |  | C | … |
| … | … | … | … | … | … | … | … | … |
|  | **Key** |  |  |  |  |  |  |  |
|  | A | Approval | 21 | 10 | … | … | … | … |
|  | L | Lead | 4 | 2 | … | … | … | … |
|  | S | Secondary | 0 | 4 | … | … | … | … |
|  | C | Contributor | 0 | … | … | … | … | … |
|  | R | Reviewer | 2 | … | … | … | … | … |

1. **Tools and Techniques**

*Use this part to list all tools and techniques that you will use in this project.*

**Chapter 3**

**PROJECT MANAGEMENT PLAN**

1. **Work Activities**

*In this part, you are required to list all your WBS. Remember, you need to have at least 25 main items, which means your ID here can go (or even, should) more than 25. Following is an example of how your WBS list should look like.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **WBS** | **Task Name** | **Duration** | **Predecessors** | **Successors** |
| 1 | 1 | Encrypted Chatting Project | 30 days |  |  |
| 2 | 1.1 | Software Lifecycle Model Process | 2 days |  |  |
| 3 | 1.1.1 | Select project model | 1 day | 2 |  |
| … | … | … | … | … | … |
| … | … | … | … | … | … |
| 200 | 1.15 | Maintenance | 1 day | 180 | 201 |
| 201 | 1.15.1 | Reapply a software lifecycle | 5 days | 198 |  |

1. **Activity Network**

*Using dependencies that you have from Work Activities above, you are required to make an activity network here. Example of how activity network looks like can be found at TM.*