Software Project Management Plan (SPMP) for AES chat server Project

*Baseline version 0.1*

*Issued on : July 26, 2015*

Issued by : Aurellia, Inc.

Issued for : Robertus Hudi Client

**Signature**

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

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Robertus Hudi Client Executive Committee representative

**Change History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Changes** |
| 0.1 | July 26, 2015 | JFAurellia | initial version |
|  |  |  |  |

**Preface**

This Document about chat server with AES encryption. Many chat server which is easy to hack or to easy recknogable the chat content. And many things which is private will be easy to know by the other parties. So with the AES encryption, it will increase the privacy of the chat. This document give the plan which is taken by Aurellia, Inc. to fulfill the requirements of software for RobertusHudi Client. Prior to the RobertusHudi Client executive committee, this documents will be using by the company for the proposal to make internal chatting in their company.

***Important Notes for Soft-copy Viewing***

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The special features: external interfaces.

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**Chapter 1**

**INRODUCTION**

* 1. **Project Overview**

*This project to make chat server with AES encryption.*

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

The purpose of this project is to create and design the software for RobertusHudi Client, which is designated specifically to help easier chatting and also to protect the privacy of the chat in RobertusHudi company.

The objectives of the project as follows :

* Complete the project before the due date
* Complete the project within the budget
* The project must be easy to use, minimum error handling, and user friendly
* 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 a small project
* This project will deliver the software components which is needed by client
* The hardware is not included in this project, and is handled as a different project.

Here is the list of all constraints that are made :

* Budget
  + $250,000
* Time
  + 3 months
  + the software will be installed on the hardware after checking together with RobertusHudi Client representative
  + After the physical hardware is permanently installed, RobertusHudi Client will have 90 days of free maintenance and service or changing. After that, maintenance fee will not exceed $300 per visit.
* Staff
  + An officer from RobertusHudi Client will be required to checking the software progress in the requirements making. This officer have the full authority in creating the final requirements, which will be evaluated and agreed by Aurellia .Inc.
  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
* Software documentation
  + Installation documentation
* Installation of software program along with its environment
* Software training for users
* Project documentation
  + Software Project Management Plan (SPMP)
  + Software Requirement Specification (SRS)
  + Software Design Spesification (SDS)
  + Software Test Report

**Chapter 2**

**PROJECT ORGANIZATION**

1. **Software Process Model**

Software process model : agile methods.

Because it is incremental model for developed and the cycles is rapid. This results in small incremental releases with each release building on previous functionality. Each release is thoroughly tested to ensure software quality is maintained.

1. **Internal Structure**

Aurellia

Project manager

Aurellia

Programmer

(lead)

Aurellia

Requirements Analyst (lead)

Aurellia

Software Architect (lead)

Aurellia

Verification Engineer

(lead)

1. **Tools and Techniques**

*Tools that I used: Java programming, command prompt, notepad*

*Techniques: agile*

**Chapter 3**

**PROJECT MANAGEMENT PLAN**

1. **Work Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **WBS** | **Task Name** | **Duration** | **Predecessors** | **Successors** |
| 1 | 1 | AES chat server Project | 90 days |  |  |
| 2 | 2 | Seeking an idea | 5 days |  |  |
| 3 | 3 | Gathering information | 6 days |  |  |
| 4 | 4 | Getting discussion | 12 days |  |  |
| 5 | 5 | Making the main program | 3 days |  |  |
| 6 | 6 | Making the server and chat program | 5 days |  |  |
| 7 | 7 | Added AES encryption into chat | 8 days |  |  |
| 8 | 8 | Fixed the chat error | 2 days |  |  |
| 9 | 9 | Fixed the AES error | 5 days |  |  |
| 10 | 10 | Checking the program | 1 day |  |  |
| 11 | 11 | Repackaging the program | 2 days |  |  |
| 12 | 12 | Ask for the review | 3 days |  |  |
| 13 | 13 | Maintenance | 1 day |  |  |
| 14 | 14 | Ask for the comment | 5 days |  |  |

1. **Activity Network**

*.*

Task 5

Task 4

Task 3

Task 2

Task 1