AKI Pro Plus Software Upgrade

Software Development Plan

Version 1.0

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 15/Sep/2014 | 1.0 | First Draft | Matthew Ganpat, Devindra Mahadeo, Shervonne Cummings |
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Software Development Plan

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# Introduction

[The introduction of the **Software Development Plan** provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this **Software Development Plan**.]

## Purpose

[Specify the purpose of this **Software Development Plan**. The text below is provided as an example**.** ]

The purpose of the *Software Development Plan* is to gather all information necessary to control the project. It describes the approach to the development of the software and is the top-level plan generated and used by managers to direct the development effort.

The following people use the *Software Development Plan*:

* The **project manager** uses it to plan the project schedule and resource needs, and to track progress against the schedule.
* **Project team members** use it to understand what they need to do, when they need to do it, and what other activities they are dependent upon.

## Scope

[A brief description of the scope of this **Software Development Plan**; what Project(s) it is associated with and anything else that is affected or influenced by this document. The text below is provided as an example.]

This *Software Development Plan* describes the overall plan to be used by the <project name> project, including deployment of the product. The details of the individual iterations will be described in the Iteration Plans.  
The plans as outlined in this document are based upon the product requirements as defined in the *Vision Document*.

## Definitions, Acronyms, and Abbreviations

[This subsection provides the definitions of all terms, acronyms, and abbreviations required to properly interpret the **Software Development Plan**. This information may be provided by reference to the project’s Glossary.]

1. TBD – To be determined.

## References

[This subsection provides a complete list of all documents referenced elsewhere in the **Software Development Plan**. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.

For the **Software Development Plan**, the list of referenced artifacts includes:

* RUP for Small Projects Website
* Iteration Plans
* Development Case
* Vision
* Glossary
* Any other supporting plans or documentation.

TBD

## Overview

[This subsection describes what the rest of the **Software Development Plan** contains and explains how the document is organized. The text below is provided as an example.]

This *Software Development Plan* contains the following information:

Project Overview — provides a description of the project's purpose, scope, and objectives.  It also defines the deliverables that the project is expected to deliver.

Project Organization — describes the organizational structure of the project team.

Management Process — explains the estimated cost and schedule, defines the major phases and milestones for the project, and describes how the project will be monitored.

Applicable Plans and Guidelines — provides an overview of the software development process, including methods, tools and techniques to be followed.

# Project Overview

## Project Purpose, Scope, and Objectives

The purpose of this project is to take an existing system and transition it into a web based one. The current system is currently a Desktop system whereby all transaction are done via telephone calls, emails or in person. There is no communication between end systems. By taking the system to a web based one there will be efficient communication, greater productivity, significantly more automation and less expenses.

## Assumptions and Constraints

* The project assumptions are as follows
  + Team of 4 resources
  + Equipment and Software availability
  + Approval of funding
* The project constraints are
  + Time is one constraints as there are requirements to meet within a limited time frame.
  + Another constraints is staff experience. The working staff has limited experience in project development and hence may not be as efficient as say a more experienced personnel.

## Project Deliverables

|  |  |  |
| --- | --- | --- |
| Week/Deliverable | Team Leader | Deliverable Description |
| 1 | Matthew Ganpat | Project Plan Part 1 |
| 2 | Devindra Mahadeo | Project Plan Part 2 |
| 3 | Shervonne Cummings | Project Plan Part 3 |
| 4 | Matthew Ganpat, Devindra Mahadeo, | Requirements Documents Part 1 |
| 5 | Shervonne Cummings | Requirements Documents Part 2 |
| 6 | Matthew Ganpat, Devindra Mahadeo, | Specifications |
| 7 | Shervonne Cummings and | Specifications |
| 8 | Matthew Ganpat, Devindra Mahadeo | Evaluation Report |
| 9 | Shervonne Cummings | Evaluation Report |
| 10 | Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | Prototype |

Deliverables for each project phase are identified in the Development Case. Deliverables are delivered towards the end of the iteration, as specified in section *4.2.4 Project Schedule*.

## Evolution of the Software Development Plan

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Primary Author(s) | Description of Version | Date Expected |
| Draft | Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | Initial draft created for distribution and review comments. | 03/10/14 |
| Preliminary | Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | Second draft incorporating initial review comments, distributed for final review | 16/10/14 |
| Final | Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | First complete draft, which is placed under change control | TBD |
| Revision | TBD | First complete draft, which is placed under change control | TBD |

The *Software Development Plan* will be revised prior to the start of each Iteration phase.

# Project Organization

## Organizational Structure

The project team consists of four (4) team members who shall be responsible for the software requirements analysis, design, development, integration, and testing of AKI Pro Plus.

The project team is organized as follows:

* Matthew Ganpat
* Devindra Mahadeo
* Shervonne Cummings

## External Interfaces

The External Interfaces are the entities outside of the immediate business who are essential to the business’ continued establishment. These entities are as follows:

* Customer – The core of the business as this is the body of persons who purchase the products
* Merchandizers – Personnel who visit the stores of customers to ensure the product is being advertised well and is in stock.
* Suppliers – These are companies that provide AKI Bakery Services with raw materials needed for production of goods.
* Bank – The Bank is central in monetary transactions as it is the medium for most large transactions.

## Roles and Responsibilities

|  |  |
| --- | --- |
| **Person** | **Project Role** |
| Matthew Ganpat, Group Leader | Project Manager System Analyst  System Designer  General Reviewer |
| Devindra Mahadeo Shervonne Cummings | System Analyst  System Designer  Prototype Tester  General Reviewer |

# Management Process

## Project Estimates

Estimates for each deliverable in the project is calculated on per task, per hour basis which is utilized by each member of the Project Team.

Project Schedule

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Task Mode | Task Name | Duration | Start | Finish | Predecessors |
| Auto Scheduled | Planning and Requirement Analysis | 18 days | Mon 08/09/14 | Wed 01/10/14 |  |
| Auto Scheduled | System Design | 11 days | Thu 02/10/14 | Thu 16/10/14 | 1 |
| Auto Scheduled | System Development | 15 days | Fri 17/10/14 | Mon 24/11/14 | 2 |
| Auto Scheduled | System Testing | 13 days | Tue 25/11/14 | Thu 11/12/14 | 3 |
| Auto Scheduled | System Implementation | 1 day | Fri 12/12/14 | Fri 12/12/14 | 4 |
| Manually Scheduled | System Maintenance | TBD | Mon 15/12/14 | TBD | 5 |

Costs per member are as follows

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Resource Name | Type | Material Label | Initials | Group | Max. Units | Std. Rate | Ovt. Rate | Cost/Use | Accrue At | Base Calendar |
| Matthew Ganpat | Work |  | M |  | 100% | TT$0.00/hr | TT$0.00/hr | TT$100.00 | Prorated | Standard |
| Devindra Mahadeo | Work |  | D |  | 100% | TT$0.00/hr | TT$0.00/hr | TT$100.00 | Prorated | Standard |
| Shervonne Cummings | Work |  | S |  | 100% | TT$0.00/hr | TT$0.00/hr | TT$100.00 | Prorated | Standard |

Costs are as follows per task.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Task Name | Fixed Cost | Fixed Cost Accrual | Total Cost | Baseline | Variance | Actual | Remaining |
| Planning and Requirement Analysis | TT$0.00 | Prorated | TT$400.00 | TT$0.00 | TT$400.00 | TT$0.00 | TT$400.00 |
| System Design | TT$0.00 | Prorated | TT$400.00 | TT$0.00 | TT$400.00 | TT$0.00 | TT$400.00 |
| System Development | TT$0.00 | Prorated | TT$400.00 | TT$0.00 | TT$400.00 | TT$0.00 | TT$400.00 |
| System Testing | TT$0.00 | Prorated | TT$400.00 | TT$0.00 | TT$400.00 | TT$0.00 | TT$400.00 |
| System Implementation | TT$0.00 | Prorated | TT$400.00 | TT$0.00 | TT$400.00 | TT$0.00 | TT$400.00 |
| System Maintenance | TT$0.00 | Prorated | TT$400.00 | TT$0.00 | TT$400.00 | TT$0.00 | TT$400.00 |

## Project Plan

### Phase Plan

The phases for the project are as follows:

* Phase 1: Planning and Requirement Analysis
* Phase 2: System Design
* Phase 3: System Development
* Phase 4: System Testing
* Phase 5: System Implementation and Maintenance
* Planning and Requirement Analysis

The planning phase consisted extracting information from Dr. Wayne Goodridge regarding all aspects of the Bakery. These are done in weekly sessions and the questions asked are related to all current aspects of the bakery as well as future aspects. After the data has been gathered, it will allow the generation of all what is needed to complete the project such as User Requirements, System requirements and Project Requirements. Therefore, this is most important and vital to efficient completion of the Project.

* System Design

The design of the software is based upon the requirements acquired. Attributes of the system such as its logical build such as the data to be utilized within the system and how the requirements are to be achieved. The design seeks to incorporate the user and system requirements into a functional logical design which will allow developers and analysts to view the project under a microscope.

* System Development

This is taking the logical structure of the Software system and developing a working model based on developed specifications. This is a prerequisite for testing as it provides the tool to be utilized for testing purposes as predetermined data can now be run to determine its accuracy (alpha testing).

* System Testing

Based on predefined test cases, the software system can be put to the test to ensure that all functionality is operating as it should and any mishaps in functionality is documented and fixed.

* System Implementation and Maintenance

The software system is implemented into the Bakery and is live and seeks to increase efficiency of the business. This live release provides the opportunity for the program to be run with real, live data and so can be monitored for any performance issues, mishaps in processing and various other errors and reduced functionality that may occur. It is in this way that the system is maintained as these possible instances of poor functionality will be recorded, solved and then released once again to the client to replace older versions of the software.

### Iteration Objectives

[List the objectives to be accomplished for each of the iterations.]

### Releases

AKI Pro – AKI Pro was released in 2004 to increase efficiency in most business processes within AKI Bakery Services.

### Project Schedule

|  |  |  |  |
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| Revision | TBD | First complete draft, which is placed under change control | TBD |

### Project Resourcing

The resources that would be required for this project include:

* Human
* Hardware
* Software

This project would require four personnel to take this project through its development cycle.

There would be a project leader and three other persons who would provide independent and collaborative efforts to bring this project to a successful closure. Each member have already been acquired through selective acquaintance and would be required to undergo formal training in order to adequately and effectively fulfill assigned and cooperative tasks.

Training will be done alongside the project phase.

|  |  |  |
| --- | --- | --- |
| Member | Training Time(Day/s) | Project Phase |
| Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | 17/09/14 – 23/09/14 | Planning and Requirement Analysis |
| Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | 11/10/14 - 13/10/14 | System Design |
| Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | 19/10/14 - 21/10/14 | System Development |
| Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | N/A | System Design |
| Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | N/A | System Testing |
| Matthew Ganpat, Devindra Mahadeo Shervonne Cummings | N/A | System Implementation and Maintenance |

Other resources would include software. These software include Microsoft Word, Microsoft Project and Microsoft Visio. The allocation of costs is to be determined.

## Project Monitoring and Control

**Project Management**

In order for successful completion of the project, it must be monitored closely and every step be documented.

# Annexes

This project utilizes a Requirements Document to supplement the various processes.