<Project Name>

Software Development Plan (Small Project)

Version <1.0>

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Revision History

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Software Development Plan (Small Project)

# 

# Introduction

## Purpose

This software development plan was created for the purpose of collecting the full range of information necessary for project development. It describes the group's approach to software development and it is used as a tool for project management.

The following people use the *Software Development Plan*:

* The project manager uses the plan to schedule the development process, allot the work to the members, check the progressing, make sure everything ok and complete the process project on time.
* Team members use it to keep track of the work you need to do, the start and end time of the job.

## Scope

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*.

## Overview

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.
* Project management process: described using the project management process model above.

# Project Overview

## Project Purpose, Scope, and Objectives

Software management of the convenience store with a mission to bring convenience to consumers. With a rich and diversified list of goods, customers are free to choose products that are suitable for their needs.

* Purpose: To build a system to manage the operation of a convenience store (employee management, cargo management, import and export of goods, collection of expenses),..
* Scope: Software users including staff and management of the store
* Objectives: The software will meet the staff's business requirements and be able to do the shop management. Log in, log out, Change password, Insert the bill information to the system, Add member for new guest if they want to regist, Read the member customer information, Read the bill information, import product from agency, manage staff .

## Assumptions and Constraints

Almost any project will have certain limitations and should be determined from the start of the project. To a minimum, assumptions and limitations should be clearly defined for the following factors:

* Schedule: The time to execute the project starts at the beginning of the course and ends at the end of the course.
* Resources: This project will be implemented by a group of 5 members including 1 project manager, developer, Tester and BA.
* Resources to use include lecture lectures of theoretical teachers, practical teacher documents provided, and reference many documents from the INTERNET.

## Project Deliverables

Here is a list of some deliverables:

|  |  |  |
| --- | --- | --- |
| Phase | Deliverables | Date |
| Analysis | Analysis Document | 03/11/2019 |
| Project Planning | Software Development Plan | 08/11/2019 |
| Design | Database Design Document, Design review | Update |
| Development | Data dictionary | Update |
| Integration | Integration plan and results | Update |
| Testing | Test plan, Test results | Update |
| Operation | Code, App, Final Presentation | Update |

# Project Organization

## Organizational Structure

[Describe the organizational structure of the project team, including management and other review authorities.]

## Roles and Responsibilities

[Identify the project organizational units that will be responsible for each of the disciplines, workflow details, and supporting processes. The text below is provided as an example.]

|  |  |
| --- | --- |
| **Person** | **Role** |
| Sally Slalom, Senior Manager |  |
| Matt Mogul, VP Operations |  |
| Tom Telemark, Senior Software Engineer |  |
| Susan Snow, Software Engineer  Henry Halfpipe, Junior Software Engineer  TBD1, Software Engineer  TBD2, Junior Software Engineer |  |
| Patrick Powder, Administrative Assistant | Responsible for maintaining the Project web site, assisting the Project Manager role in planning/scheduling activities, and assisting the Change Control Manager role in controlling changes to artifacts. May also provide assistance to other roles as necessary. |

# Management Process

## Project Estimates

[Provide the estimated cost and schedule for the project, as well as the basis for those estimates, and the points and circumstances in the project when re-estimation will occur.]

## Project Plan

[This section contains the schedule and resources for the project.]

### Phase Plan

[Include the following:

 Work Breakdown Structure (WBS) — optional for small projects

 a timeline or Gantt chart showing the allocation of time to the project phases or iterations

 identify major milestones with their achievement criteria

Define any important release points and demos.]

### Iteration Objectives

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

### Releases

[A brief description of each software release and whether it’s demo, beta, and so on.]

### Project Schedule

[Diagrams or tables showing target dates for completion of iterations and phases, release points, demos, and other milestones.]

### Project Resourcing

 [Identify the numbers and type of staff required here, including any special skills or experience, scheduled by project phase or iteration.

 Describe how you will approach finding and acquiring the staff needed for the project.

 List any special training project team members will require, with target dates for when this training should be completed.]

## Project Monitoring and Control

 [The following is a checklist of items to consider:

* Requirements Management : Specify the information and control mechanisms which will be collected and used for measuring, reporting, and controlling changes to the product requirements.
* Reporting and Measurement: Describe internal and external reports to be generated, and the frequency and distribution of publication. Specify which metrics should be collected and why.
* Risk Management: Describe the approach that will be used to identify, analyze, prioritize, monitor and mitigate risks. Include a list of risks and their current status.
* Project Close-out: Describe the activities for the orderly completion of the project, including staff reassignment, archiving of project materials, post-mortem debriefings and reports, and so forth.
* Configuration Management: Describe the process by which problems and changes are submitted, reviewed, and dispositioned. Describe how project or product artifacts are to be named, marked, and numbered, including hardware, system software, Commercial-Off-The-Shelf (COTS), plans, models, components, test software, results and data, executables, and so on. Describe retention policies, and the back-up, disaster, and recovery plans. Also describe how the media is to be retained—online, offline, media type, and format.

The text that follows is provided as an example.]

### Requirements Management

The requirements for this system are captured in the Vision document. Requested changes to requirements are captured in Change Requests, and are approved as part of the Configuration Management process.

### Reporting and Measurement

Updated cost and schedule estimates, and metrics summary reports, will be generated at the end of each iteration.

The Minimal Set of Metrics, as described in the RUP [Guidelines: Metrics](..\..\..\process\modguide\md_metri.htm), will be gathered on a weekly basis. These include:

Earned value for completed tasks. This is used to re-estimate the schedule and budget for the remainder of the project, and/or to identify need for scope changes.

Total defects open and closed – shown as a trend graph. This is used to help estimate the effort remaining to correct defects.

Acceptance test cases passing – shown as a trend graph. This is used to demonstrate progress to stakeholders.

In addition, overall costs will be monitored against the project budget.

### Risk Management

Risks will be identified in Inception Phase using the steps identified in the RUP for Small Projects activity “Identify and Assess Risks”. Project risk is evaluated at least once per iteration and documented in this table. The risks of the greatest magnitude are listed first in the table.

|  |  |  |
| --- | --- | --- |
| **Risk Ranking (High, Medium, Low)** | **Risk Description and Impact** | **Mitigation Strategy and/or Contingency Plan** |
|  |  |  |

### Configuration Management

Appropriate tools will be selected which provide a database of Change Requests and a controlled versioned repository of project artifacts.

All source code, test scripts, and data files are included in baselines. Documentation related to the source code is also included in the baseline, such as design documentation. All customer deliverable artifacts are included in the final baseline of the iteration, including executables.