Pet Best LLC Website

Software Development Plan (Small Project)

Version <1.0>

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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 02/15/2020 | 1.0 | Set up the headers, worked on scope, 2.1 project purpose. | Mohammed Aldura |
| 2/15/2020 | 1.0 | Worked on roles and responsibilities, edited completion time for project, removing unnecessary fields. | Murad Tawfiq |
| 02/16/2020 | 1.0 | Worked on the introduction; missing definitions, references and final overview. | Fouad Aoude |
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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**.]

This *Software Development Plan* will be used by the project manager(s) and project team members. Each member has an important role to play starting with the project manager(s) they will primarily keep everything intact and running according to plan. On the other hand, project team members will be the backbone of the project and work on what they are assigned to finish the project efficiently. This *Software Development Plan* will be the tool to the Pet Best LLC website project team. This plan will provide insight needed to complete the two projects, the website and desktop application. **DEFINITIONS. REFERENCES.** There are roles and responsibilities for each team and every member. Every member is responsible for completing the work they are assigned to make this project as foolproof as possible.

## Purpose

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(s)** 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 plan to be used by the Pet Best LLC website project team. This document will cover most of the information needed to successfully design, code, test and deploy the website and desktop application.

## 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.]

See the Project Glossary.

## 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:

* + Problem Statement
  + Use Case Diagrams
  + Requirements Document
  + Data Flow Diagrams
  + Style Sheet

## 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

[A brief description of the purpose and objectives of this project and a brief description of what deliverables the project is expected to deliver.]

The purpose of this project is to provide Pet Best LLC with a platform where they can interact with their customers efficiently. The main platform will be a website that will host information as well as various functions that the customers as well as the employees will have access to. The website is to be able to “give lots of info to customers”, allow them to schedule services, and view their account information. The employees are to be able to access the tasks assigned to them and be able to leave notes on said tasks.

## Assumptions and Constraints

[A list of assumptions that this plan is based and any constraints, for example. budget, staff, equipment, schedule, that apply to the project.]

Constraints

* + Team of 22 people (Juniors)
  + We have 4 months to complete project
  + Meet weekly (Mondays)
  + One server and one database

Assumptions

* + Working website
  + Teams meet weekly (other than classroom time)
  + Computer labs available in E building
  + Anyone with a house pet is considered a potential customer

## Project Deliverables

[A list of the artifacts to be created during the project, including target delivery dates. The text below is provided as an example.]

The website and desktop application should be able to give customers access to their data and allow them to request services. The project to be completed by May 3rd 2020.

## Evolution of the Software Development Plan

[A table of proposed versions of the **Software Development Plan**, and the criteria for the unscheduled revision and reissue of this plan. The text below is provided as an example.]

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

# Project Organization

## Organizational Structure

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

There are 4 groups. The groups include; front-end, back-end, Application development team, and server team. Each team will have one leader that will manage the teams to make sure that the deadlines are met. The project team also includes Kimberly Moscardelli (Project lead).

## External Interfaces

[Describe how the project interfaces with external groups. For each external group, identify the internal and external contact names. This should include responsibilities related to deployment and acceptance of the product.]

Micah Webner is a Web Architect that will assist in setting up the server and website.

## 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.]

|  |  |
| --- | --- |
| **Teams** | **Unified Roles** |
| Front-End Development | -Design website.  -Determine Structure and functionality of webpage.  -Smoothen user experience. |
| Back-End Development | -Produce logic for server, application, and database integration. |
| App-Development | -Connect to backend APIs  -Design application  -Provide software for users |
| Server Team | -Create and maintain the server that will host the website |

Anyone on the project can perform [Any Role](..\..\..\process\workers\wk_any.htm) activities.

# Management Process

## 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.]

* 1. Server team set up server, other teams could now set up work.
  2. Backend team created login API for front end to work on.
  3. Front End team setup page
  4. Front End team created design and deployed it to the PetBest website.

### Iteration Objectives

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

Our objective is for the Pet Best LLC website to attract customers and help the business grow.

### Project Schedule

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

The target project time is 15 weeks. Deadline is May 4th , 2020.

## 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.
* Schedule and Budget Control:Describe the approach to be taken to monitor spending against the project budget and progress against the planned schedule. Describe how to take corrective action when required.
* Quality Control:Describe the timing and methods to be used to control the quality of the project deliverables and how to take corrective action when required. Include techniques, metrics, criteria, and procedures used for evaluation— this will include walkthroughs, inspections, and reviews. Note that this is in addition to the Test Plan, which is not enclosed in the Software Development Plan.
* 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.
* Problem Resolution: Describe the approach to be taken to resolve disagreements with the customer, including how to handle schedule slips, scope, and contractual disagreements.
* Subcontractor Management: Describe how subcontractors will be managed.
* Process Improvement Plan: Describe how the effectiveness of the process will be assessed and improved.

The text that follows is provided as an example.]

**Requirements Management**

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

**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.

Full backups are performed monthly and increments are performed nightly.

# Annexes

[Additional material of use to the reader of the **Software Development Plan**. Reference or include any project technical standards and plans which apply to this project. This typically includes the Development Case, plans for infrastructure, and product acceptance. It also typically includes Programming Guidelines, Design Guidelines, and other process guidelines. The text that follows is provided as an example.]

The project will follow the RUP for Small Projects process, as tailored by the project Development Case.

Other applicable process plans are listed in the references section, including Programming Guidelines.