**Domino’s Pizza® Point of Sales Application**

**Software Requirements Specification**

**Version 1.0**

**9/23/2014**

**Mismanagement, Inc.**

Tonya Brenner

Jennifer Hoffman

Michael Reinitz

Michael Schmidt

Table of Contents

[1. Introduction](#h.nhhp2b3g5832)

[1.1 Purpose](#h.vn6c2nxwi4yv)

[1.2 Scope](#h.4o2n7z7rllxt)

[1.3 Definitions, Acronyms, and Abbreviations](#h.wsr87p408y1)

[1.4 References](#h.gc6ebqfrq5w8)

[1.5 System Overview](#h.rthtow5c9zar)

[2. Functional Description](#h.cn19ov2zxpul)

[2.1 General Screen Requirements](#h.7t09i2c5jxti)

[2.1.1 General Screen Readability](#h.doioaewh7mrz)

[2.1.2 General Graphical Screen Component Qualities](#h.kch4urccu950)

[2.1.2.1 Screen Interface Requirements](#h.p8yjx0toe8sx)

[2.1.2.1.1 Logo](#h.wi24opv1w7be)

[2.1.2.2 Button](#h.wri8ennkub65)

[2.2 Application Access](#h.j997pby6of9m)

[2.2.1 Login](#h.clrldmtxy87g)

[2.2.2 Authentication](#h.dsc8zi1uwyy7)

[2.2.3 Logout](#h.7rt1i719pj0q)

[2.3.4 Logout Warning](#h.9grzz9t5gucc)

[2.3 Employee Tools](#h.vpe70tsl0l0h)

[2.3.1 Employee Management](#h.5nd0igen8ixr)

[2.3.2 Order Placement](#h.99aq6i2vfcwy)

[2.4 Order Requirements](#h.w8rf1qhf847)

[2.5 Receipt Requirements](#h.dp9lv1k9g1b9)

[2.6 Data Requirements](#h.841yk4cejb42)

[2.6.1 Configurable Data](#h.vyxeab3sai9f)

[2.6.2 Static Data](#h.c7rwgv7zjbw2)

[3. System Requirements](#h.bm7mvqrfp3jy)

[3.1 Hardware Requirements](#h.60o4ichmtodx)

[3.2 Software Requirements](#h.1foayfpilfxw)

[4. Interfaces](#h.xdlmwrt4lh7s)

[4.1 Standalone Program](#h.7736hwjcfvbh)

[4.2 Use of Windows DLLs](#h.ywp81pehp1sr)

[5. Performance](#h.77pm6bnq62hk)

[6. Delivery](#h.hak6ox3cd42p)

[7. Schedule](#h.minfh3aymb5z)

[8. Miscellaneous](#h.2odwhrp5eiu8)

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author(s)** |
| 9/23/2014 | 1.0 | First draft | Tonya Brenner, Jennifer Hoffman, Michael Reinitz, Michael Schmidt |

# 1. Introduction

## 1.1 Purpose

This document exists to specify the software requirements for the functions and capabilities of the Domino’s Pizza Point of Sales Kiosk. The requirements contained in this document will serve as the foundation for the creation of Test plans to ensure that each requirement is fulfilled.

## 1.2 Scope

This SRS describes the entirety of the Domino’s Pizza® Point of Sales Kiosk software requirements. Included in the scope of this document are functionality requirements, design requirements, implementation requirements, and deployment requirements.

## 1.3 Definitions, Acronyms, and Abbreviations

DLL - Dynamic-Link Library

Kiosk - Domino’s Pizza Point of Sales Kiosk

PIN - Personal identification number

SRS - Software Requirements Specification

## 1.4 References

Software Requirement Specifications, 9/18/2014, Bob Tracy.

Software Requirement Specifications Carmax Example, 9/18/2014, Bob Tracy.

## 1.5 System Overview

The software is intended for the use of employees at Domino’s Pizza establishments. The software allows employees to take orders, create receipts, configure prices and employee information.

# 2. Functional Description

These software requirements reflect the decomposition of the customer’s understanding of the Domino’s Pizza Point of Sales Kiosk process used at individual Domino's Pizza establishments. The statements include requirements, requests, and non-requirements. Requirements include the verb “must” or “shall” and are used for testing and requirement traceability. Requests contain the word “should” and indicate desires for features and functionality of the software that are not absolute requirements. Non-requirements do not contain either “must”, “shall”, or “should” language and are provided as introductory or explanatory text to promote the understanding of the software requirements.

## 2.1 General Screen Requirements

### 2.1.1 General Screen Readability

The screen must be held consistent with colors and fonts that will correspond with corporate standards which promote readability and ease of use. More specifically fonts should be greater than 8pt. Fonts should not be the same color as the screen background.

### 2.1.2 General Graphical Screen Component Qualities

#### 2.1.2.1 Screen Interface Requirements

The interface displayed on the screen must be graphic.

##### 2.1.2.1.1 Logo

The Domino’s logo displayed on all screens.

#### 2.1.2.2 Buttons

Buttons must adhere to the corporate standard in terms of fonts and colors.

## 2.2 Application Access

### 2.2.1 Login

The login screen must only ask for a four digit pin. When a valid pin is provided, the application will recognize the user based on this pin.

### 2.2.2 Authentication

The application upon receiving an invalid pin must display a message alert indicating that the login attempt failed.

### 2.2.3 Logout

Every screen shall provide the ability to log out except the login screen. Once logged out the current user then loses authentication and the user is redirected to the login screen.

### 2.2.4 Logout Warning

If log out is selected, a prompt shall appear with a warning that any unsaved data including order information will be lost and offer the option to confirm the logout or to return to the current screen.

## 2.3 Employee Tools

This section is to denote functions that will be available to a logged in user.

### 2.3.1 Employee Management

Any valid employee must be able to add, change, or delete other employees and their pins within the application. //How do we delete employee, by pin or name?

### 2.3.2 Order Placement

Any valid employee shall have the ability to place or cancel an order.

## 2.4 Order Requirements

* The employee shall be able to add between zero and one hundred pizzas to the order.
  + The application shall allow the selection of one pizza size.
  + The application shall allow the selection of no toppings.
  + The application shall allow the selection of a maximum of one of each of the available toppings.
* The employee shall be able to add between zero and one hundred sodas to the order.
* An employee shall not be able to modify an order.
* An employee shall be able to complete an order provided the order meets its validation criteria. The validation criteria are as follows:
  + The order contains a minimum of one pizza or soda
  + The order contains between zero and one hundred pizzas
  + The order contains between zero and one hundred sodas

## 2.5 Receipt Requirements

The state tax shall be applied to an order when a receipt is produced.

The application shall produce an on-screen receipt containing a unique order identifier with the employee name, a list of items, the items’ prices, the subtotal of the items, the state sales tax, the state sales tax on the items, and the total of the items and the state sales tax. The application shall not physically print a receipt.

## 2.6 Data Requirements

The application stores data about employees, pins, items, and item prices. Some of these values are configurable and need to be able to change, while other values are static.

All configurable and static data shall be persistent during the execution of the application. All configurable and static data shall be persistent between executions of the application.

### 2.6.1 Configurable Data

The following data must be configurable by any valid user within the application, including tax, to be between zero and one hundred dollars:

* The price of one pizza for each size of pizza
* The price for one pizza topping; all toppings are the same price
* The price of one specialty pizza; all specialty pizzas are the same
* The price of one soda

The employee shall be able to configure the percentage of state sales tax.

### 2.6.2 Static Data

The following data must be static:

* There shall be three pizza size options: small, medium, and large
* There shall be the following pizza topping options: pepperoni, sausage, ham, bacon, extra cheese, chicken, onions, green peppers, mushrooms, pineapple, and black olives
* There shall be the following specialty pizza options: Meat Lovers (contains pepperoni, sausage, ham, and bacon) and Veggie Lovers (contains onions, green peppers, mushrooms, and black olives)
* There shall be one soda option (two liter Soda)

# 3. System Requirements

There will be very specific system requirements used by the program. All system requirements will be provided by St. Mary’s College of Maryland.

## 3.1 Hardware Requirements

* Dell Precision T1500
* Intel(R) Core(TM) i5 CPU Processor
* 4.00 GB of Ram
* 32-bit Operating System

## 3.2 Software Requirements

* Windows 7 Professional - Service Pack 1
* Eclipse

# 4. Interfaces

There will be two external interfaces used by the program. A mouse and keyboard that are both compatible with the required hardware (see Section 3.1) are necessary for the use of the program.

## 4.1 Standalone Program

The program will run standalone, not interacting with a network in any manner.

## 4.2 Use of Windows DLLs

The program will be self-sufficient, or will use only standard Windows DLLs.

# 5. Performance

There will be no formal installation process. Loading of the program shall consist of compiling the code using the Eclipse IDE mentioned in Section 3.2. The program shall respond to inputs from the user within one second. Resetting the program shall be done via the terminate button on the Eclipse IDE, then clicking the run button to re-open the program.

# 6. Delivery

The project will be delivered to the customer on a flash drive and will be installed by the by our team of experts. Training will be provided to one member, Professor Bob Tracy, of the party purchasing the software. The amount of training time will be limited to a total of two hours. Documentation that will accompany the software will include an instruction manual.

# 7. Schedule

The project dates associated with each delivery product associated with the system are as listed below:

* SDP document first draft by 9/16/2014
* SRS Document by 9/23/2014
* Traceability Matrix by 9/30/20144
* Software Design Document by 10/7/2014
* SDP Version 2 Document by 10/21/2014
* SRS Version 2 Document by 10/23/2014
* Traceability Version 2 Matrix by 10/28/2014
* SDD Version 2 by 11/6/2014
* Software Test Plan by 11/11/2014
* STP Version 2 Document by 11/20/2014
* Delivery list of documentation, media, etc by 12/2/2014
* Delivery of product 12/9/2014 with formal presentation and source code.

# 8. Miscellaneous

There are no miscellaneous items at this time.