**Point of Sales Transaction System for Domino’s Pizza**

**Software Requirements Specification**

**Version 1.0**

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**Number One Best Professional Development Practices**

**Authors: Abu Kebbie-Anthony, Chris McEligot, Nicolas Mouriski, Richard Tyaba**

Table of Contents

1 Introduction 1

1.1 Purpose 1

1.2 Scope 1

1.3 Definitions, Acronyms, and Abbreviations 1

1.4 References 1

1.5 System Overview 1

2 Function Description 1

2.1 Login Screen 2

2.1.1 Login Screen Components 2

2.1.1.1 Employee Name Field 2

2.1.1.2 Employee Code Field 2

2.1.1.3 Login Button 2

2.1.2 Invalid Login Information 2

2.1.2.1 Validation Prompt 2

2.2 POS Screen 2

2.2.1 Order Management 2

2.2.1.1 Order Placement 2

2.2.1.1.1 Adding a Pizza 3

2.2.1.1.2 Specialty Pizzas 3

2.2.1.1.3 Toppings 3

2.2.1.1.4 Toppings Display 3

2.2.1.1.5 Price Display 3

2.2.1.2 Order Cancellation 3

2.2.1.3 Order Completion 3

2.2.1.3.1 Onscreen Receipt Components 3

2.2.1.3.1.1 Order Number Construction 4

2.2.1.3.1.2 Order Number Persistency 4

2.2.1.4 Empty Order Notification 4

2.2.2 User Account Management 4

2.2.2.1 Current User Display 4

2.2.2.2 User Logout 4

2.2.2.2.1 Order in Progress Prompt 4

2.2.3 Navigation from POS Screen 4

2.2.3.1 User Account Administration Link 4

2.2.3.2 Price Configuration Link 4

2.3 User Accounts Administration Screen 4

2.3.1 Add New Employee 5

2.3.2 Account Persistency 5

2.3.3 Navigation from User Accounts Administration Screen 5

2.4 Price Configuration Screen 5

2.4.1 Configurable Items 5

2.4.1.1 Configuration Ranges 5

2.4.2 Configuration Persistency 5

2.4.3 Navigation from Price Configuration Screen 5

3 System Requirements 5

3.1 Hardware Requirements 6

3.2 Software Requirements 6

4 Interfaces 6

4.1 Hardware Interfaces 6

4.2 Standalone Program 6

5 Performance 6

5.1 Load Time 6

5.2 Response Times 6

5.2.1 Adding Item to Order Response Time 6

5.2.2 Order Completion Response Time 6

5.2.3 Navigation Response Time 7

6 Delivery 7

6.1 Delivery Media 7

6.2 Documentation 7

6.3 Training 7

7 Schedule 7

8 Miscellaneous 7

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Authors** |
| 9/23/14 | 1.0 | Initial version outlining all requirements. | Abu Kebbie-Anthony, Chris McEligot, Nicolas Mouriski, and Richard Tyaba |

# Introduction

The Software Requirements Specification (SRS) outlines the purpose and scope of the document, system overview, and all product requirements for the Domino’s Pizza Point of Sale (POS) Transaction System.

## Purpose

This document’s purpose is to outline the requirements and functions of the POS Transaction System. This will assist the software development team in the design, development, and testing of the software system.

## Scope

This document shall describe all requirements for the Domino’s Pizza POS Transaction System without discussing the design of the system.

supply our client with a functional POS software system that allows account users to place orders and view a receipt of the order

## Definitions, Acronyms, and Abbreviations

GUI – Graphic User Interface

POS – Point of Sales

SRS – Software Requirements Specification

SDD – Software Design Document

SDP – Software Development Plan

STP – Software Test Plan

#1BPDP – Number One Best Professional Development Practices

## References

* Customer requirements specified on September 4th, 2014
* SDP version 1.0; September 16, 2014; #1BPDP
* Traceability Matrix; October 2, 2014; #1BPDP
* SDD version 1.0; October 7, 2014; #1BPDP
* STP version 1.0; November 11, 2014; #1BPDP

## System Overview

The objective of this project is to develop a POS Transaction System for Domino’s Pizza. The system will have the ability to log on with different user accounts, contain a GUI for placing orders consisting of common items for sale by Domino’s Pizza, and display an onscreen receipt for a completed order.

# Function Description

These software requirements are the software development team’s interpretation of the needs as communicated by the customer representative.

The following statements describe the essentiality of each requirement to the system:

* The verb “must” included in a statement describes a requirement that is necessary for the system.
* The verb “should” included in a statement describes a requirement that is optional for the system.

## Login Screen

### Login Screen Components

The following components must be present on the login screen.

#### Employee Name Field

This field must accept valid employee user names.

#### Employee Code Field

This field must accept the corresponding valid four-digit employee code.

#### Login Button

When valid login information is entered, this button must allow the user to proceed to the POS Screen.

### Invalid Login Information

When invalid login information is entered, the system must display a prompt to the user indicating that invalid login information was entered.

#### Validation Prompt

When the invalid login prompt is displayed, the system must also display the invalid employee code that was entered.

## POS Screen

### Order Management

#### Order Placement

The system must allow a user to add the following items for sale to an order in progress:

* Two-liter sodas
* Small, Medium, Large, and Specialty Pizzas

##### Adding a Pizza

The system must require the user to select the pizza size before adding toppings to the pizza.

##### Specialty Pizzas

The system must contain the following specialty pizzas as items for sale:

* Hawaiian Pizza
* Meat Lovers’ Pizza

##### Toppings

The system must allow adding any combination of the following toppings to an entire pizza:

* Pepperoni
* Sausage
* Ham
* Bacon
* Extra Cheese
* Chicken
* Onions
* Green Peppers
* Mushrooms
* Black Olives
* Pineapple

##### Toppings Display

The system must display the toppings on a pizza.

##### Price Display

The system must display the prices for items in an order.

#### Order Cancellation

When an order is cancelled, the system must clear all items from the current order.

#### Order Completion

When an order is completed, the system must display an onscreen receipt for the order unless the order contains no items.

##### Onscreen Receipt Components

The onscreen receipt must contain the following components:

* Employee name associated with the order
* Unique order number
* Items ordered
* Subtotal
* Tax
* Grand total

###### Order Number Construction

Order numbers must increase by 1 successively, starting from 0.

###### Order Number Persistency

The system must keep track of order numbers that have already been used across sessions on the same computer system.

#### Empty Order Notification

When the user attempts to complete an order that contains no items, this system must display a message notifying the user that the order is empty.

### User Account Management

#### Current User Display

While a user is logged into the system, the system must display their employee name.

#### User Logout

When a user logs out, the system shall return to the login screen unless there is one or more items in the current order.

##### Order in Progress Prompt

When the user attempts to log out while there is at least one item in the current order, the system shall display a prompt notifying the user that an order is in progress.

### Navigation from POS Screen

#### User Account Administration Link

The system must allow the user to navigate to the user account administration screen from the POS screen.

#### Price Configuration Link

The system must allow the user to navigate to the price configuration screen from the POS screen.

## User Accounts Administration Screen

### Add New Employee

The system must allow a user to create a new user account by providing new login information consisting of an employee name and unique four-digit code.

### Account Persistency

Valid user login information must be recognized from session to session on the same computer system.

### Navigation from User Accounts Administration Screen

The system must allow the user to return to the POS screen from the user account administration screen.

## Price Configuration Screen

### Configurable Items

The following items must be configurable:

* Soda price
* Small pizza price
* Medium pizza price
* Large pizza price
* Specialty pizza price
* Topping price
* Tax rate

#### Configuration Ranges

The configurable items must fall within the following ranges:

* $0-$100
* 0%-100%

### Configuration Persistency

The system must save the values for the configurable items across all user sessions.

### Navigation from Price Configuration Screen

The system must allow the user to return the POS screen from the price adjustment screen.

# System Requirements

This section describes the minimum hardware and software requirements to run the program.

## Hardware Requirements

The Domino’s Pizza POS Transaction System must run on a computer with the following minimum specifications:

* 1 GB RAM
* 2.0 GHz Dual Core CPU (Intel or AMD)
* 500 MB free hard drive space

## Software Requirements

The system must be compatible with the following versions of the Windows Operating System:

* Windows XP
* Windows Vista
* Windows 7
* Windows 8

# Interfaces

This section examines all external interfaces used by the program.

## Hardware Interfaces

The system must utilize keyboard and mouse input for application controls.

## Standalone Program

The program must run without interacting with any networks.

# Performance

This section specifies performance requirements for the system, including loading and repose times.

## Load Time

The system must load within 5 seconds.

## Response Times

### Adding Item to Order Response Time

The system must update the order within 1 second of adding an item.

### Order Completion Response Time

The system must display the onscreen receipt within 1 second of completing an order.

### Navigation Response Time

The system must navigate to a new screen within 1.5 seconds.

# Delivery

This section details how the program will be delivered, what documentation with accompany the software, and what training will be provided.

## Delivery Media

The system must be installed by file transfer from a USB flash drive or by unzipping a zip file attached to an email.

## Documentation

The system must include a help menu with instructions on use of the system.

## Training

The software development team must demonstrate use of the system during their scheduled presentation time.

# Schedule

The software development team must provide the following artifacts on the corresponding delivery dates:

* Software Requirements Specification (SRS) – September 23, 2014
* Traceability Matrix – September 30, 2014
* Software Design Document – October 7, 2014
* Updated Software Development Plan (SDP) – October 21, 2014
* Updated SRS – October 23; 2014
* Updated Traceability Matrix – October 28, 2014
* Updated SDD – November 6, 2014
* Software Test Plan (STP) – November 11, 2014
* Updated STP – November 20, 2014
* List of Documentation, Media, and Miscellaneous – December 2, 2014

# Miscellaneous

There are currently no miscellaneous requirements.