Point of Sales Transaction System for Domino’s Pizza

Traceability Matrix

Version 1.0

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**Number One Best Professional Development Practices**

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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author(s)** |
| 9/30/14 | 1.0 | Initial version of requirements-aspects traceability matrix. | Abu Kebbie-Anthony, Chris McEligot, Nicolas Mouriski, Richard Tyaba |

# 

# Introduction

The Traceability Matrix (TM) assists in correlating the requirements of this project with it’s aspects. This document provides a source of comparison to ensure that the software requirements are met.

## Purpose

The TM includes three tables to elaborate on the requirements, aspects, and the correlation between the two. The first table outlines the requirement number assigned to a requirement, the section it relates to in the Software Requirements Specification (SRS), and the title of the requirement. The second table outlines the aspects of each requirement listing an aspect number and a brief description. The last table shows how the requirements correspond to the aspects.

## Scope

The scope of this document is to trace the requirements necessary for the software project to the aspects needed to ensure project functionality.

## Definitions, Acronyms and Abbreviations

TM – Traceability Matrix

GUI – Graphic User Interface

POS – Point of Sales

SRS – Software Requirements Specification

#1BPDP – Number One Best Professional Development Practices

## References

* SDP version 1.0; September 16, 2014; #1BPDP

## System Overview

The objective of this project is to develop a Point of Sales (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.

# Traceability

# This section contains a table consisting of a requirements list (columns) and list of "aspects of the system" (rows). The table illustrates any relationships between requirements and aspects through the use of a symbol at the intersection of the two.

## Requirements List

The following table contains a list of requirement numbers and the SRS section numbers and section titles they refer to:

|  |  |  |
| --- | --- | --- |
| Requirement Number | SRS Section Number | SRS Section Title |
| R1 | 2.1.1 | Login Screen Components |
| R2 | 2.1.1.1 | Employee Name Field |
| R3 | 2.1.1.2 | Employee Code Field |
| R4 | 2.1.1.3 | Login Button |
| R5 | 2.1.2 | Invalid Login Information |
| R6 | 2.1.2.1 | Validation Prompt |
| R7 | 2.2.1.1 | Order Placement |
| R8 | 2.2.1.1.1 | Adding a Pizza |
| R9 | 2.2.1.1.2 | Specialty Pizzas |
| R10 | 2.2.1.1.3 | Toppings |
| R11 | 2.2.1.1.4 | Toppings Display |
| R12 | 2.2.1.1.5 | Price Display |
| Requirement Number | SRS Section Number | SRS Section Title |
| R13 | 2.2.1.2 | Order Cancellation |
| R14 | 2.2.1.3 | Order Completion |
| R15 | 2.2.1.3.1 | Onscreen Receipt Components |
| R16 | 2.2.1.3.1.1 | Order Number Construction |
| R17 | 2.2.1.3.1.2 | Order Number Persistency |
| R18 | 2.2.1.4 | Empty Order Notification |
| R19 | 2.2.2.1 | Current User Display |
| R20 | 2.2.2.2 | User Logout |
| R21 | 2.2.2.2.1 | Order in Progress Prompt |
| R22 | 2.2.3.1 | User Account Administration Link |
| R23 | 2.2.3.2 | Price Configuration Link |
| R24 | 2.3.1 | Add New Employee |
| R25 | 2.3.2 | Account Persistency |
| R26 | 2.3.3 | Navigation from User Accounts Administration Screen |
| R27 | 2.4.1 | Configurable Items |
| R28 | 2.4.1.1 | Configuration Ranges |
| R29 | 2.4.2 | Configuration Persistency |
| R30 | 2.4.3 | Navigation from Price Configuration Screen |

## Aspects List

The following table contains a list of system aspect numbers and a brief description of the aspect. An aspect is a functional subsystem of the whole software program.

|  |  |
| --- | --- |
| Aspect Number | Aspect (Subsystem) Description |
| A1 | Accept valid login information |
| A2 | Add items to current order |
| A3 | Add toppings to a pizza |
| A4 | Display items in current order |
| A5 | Cancel current order |
| A6 | Complete current order |
| A7 | Display current user |
| A8 | Manage navigation to different screens |
| A9 | Allow creation of new login information |
| A10 | Allow price and rate configuration |
| A11 | Manage persistency data across sessions |

## Traceability Table

The following table cross-references each requirement with each aspect, and vice versa.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 |
| R1 | X |  |  |  |  |  |  |  |  |  |  |
| R2 | X |  |  |  |  |  |  |  |  |  |  |
| R3 | X |  |  |  |  |  |  |  |  |  |  |
| R4 | X |  |  |  |  |  |  |  |  |  |  |
| R5 | X |  |  |  |  |  |  |  |  |  |  |
| R6 | X |  |  |  |  |  |  |  |  |  |  |
| R7 |  | X |  |  |  |  |  |  |  |  |  |
| R8 |  | X |  |  |  |  |  |  |  |  |  |
| R9 |  | X |  |  |  |  |  |  |  |  |  |
| R10 |  |  | X |  |  |  |  |  |  |  |  |
| R11 |  |  |  | X |  |  |  |  |  |  |  |
| R12 |  |  |  | X |  |  |  |  |  |  |  |
|  | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 |
| R13 |  |  |  |  | X |  |  |  |  |  |  |
| R14 |  |  |  |  |  | X |  |  |  |  |  |
| R15 |  |  |  |  |  | X |  |  |  |  |  |
| R16 |  |  |  |  |  | X |  |  |  |  |  |
| R17 |  |  |  |  |  |  |  |  |  |  | X |
| R18 |  |  |  |  |  | X |  |  |  |  |  |
| R19 |  |  |  |  |  |  | X |  |  |  |  |
| R20 |  |  |  |  |  |  |  | X |  |  |  |
| R21 |  |  |  |  |  |  |  | X |  |  |  |
| R22 |  |  |  |  |  |  |  | X |  |  |  |
| R23 |  |  |  |  |  |  |  | X |  |  |  |
| R24 |  |  |  |  |  |  |  |  | X |  |  |
| R25 |  |  |  |  |  |  |  |  |  |  | X |
| R26 |  |  |  |  |  |  |  | X |  |  |  |
| R27 |  |  |  |  |  |  |  |  |  | X |  |
| R28 |  |  |  |  |  |  |  |  |  | X |  |
| R29 |  |  |  |  |  |  |  |  |  |  | X |
| R30 |  |  |  |  |  |  |  | X |  |  |  |

# Miscellaneous

There are currently no miscellaneous requirements.