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Web Based Point of Sale System

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Web Based Point of Sale System
Final Project Report
5/2/2014

Submitted By:
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To Fulfill B.S. Computer Engineering Technology

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Abstract
A point of sale system is essential to the operation of a small business. A point of sale system is used to track a business’ sales, tax receipts, and inventory. Dan’s Pies is a small business in North Webster that opened in 2010. The current point of sale system has several shortcomings that has driven the owner of Dan’s Pies to commission a project to replace the system.

This project was undertaken to provide a web based point of sale system to meet the needs of Dan’s Pies. The system includes the ability to scan a barcode with an off-the-shelf barcode scanner, calculate the total for the sale including sales tax, accept payment and print a receipt with an off-the-shelf receipt printer. The system also allows the user to generate a sales report that tells the user the amount of sales tax due to the state for a user specified date range. The final deliverables are a point of sale system deployed at Dan’s Pies, this final report, and a final presentation. All deliverables were successfully completed and delivered to the appropriate entities. The total cost of the project was $157.24.

The system was built using the Ruby on Rails web framework, a PostgreSQL data base backend, and the Apache webserver. The system is hosted at a server at Dan’s Pies that runs CentOS, a version of Linux.

Keywords:
Point of Sale(POS)
PostgreSQL
Ruby
Ruby on Rails
Apache Webserver
Barcode
CentOS
Relational database
Table of Contents

List of Illustrations................................................................. 1
List of Tables ......................................................................... 2
Executive Summary ............................................................... 3
Chapter 1 Introduction .......................................................... 4
  1.1 Introduction and Background ......................................... 4
  1.2 Primary Purpose .......................................................... 4
  1.3 Overview ......................................................................... 4
Chapter 2. System Design Overview and Research .................... 5
  2.1 Legal Aspects ............................................................... 5
  2.1 System Scope ............................................................... 5
Chapter 4. Software Design .................................................. 9
  4.1 Software Architecture .................................................. 9
  4.2 Programming and Development Environment ............... 9
  4.3 Database Schema Design .............................................. 11
  4.4 Main Components ...................................................... 12
    4.4.1 Sales Page ......................................................... 12
    4.4.2 Reporting Page ................................................... 14
    4.4.3 Barcode Generation .............................................. 15
    4.4.4 Receipt Printing .................................................. 16
  4.5 UML Diagrams ............................................................ 17
    4.5.1 Use Case Diagram ............................................... 17
    4.5.2 Class Diagrams .................................................... 18
    4.5.3 Program Sequence Diagrams ............................... 20
Chapter 5 Unit Testing and System Integration ......................... 22
Chapter 6. Project Management .............................................. 27
  6.1 Schedule and Time Management .................................... 27
  6.2 Resource and Cost Management .................................... 31
  6.3 Quality Management .................................................. 32
  6.4 Risk Management ....................................................... 32
  6.5 Project Procurement .................................................... 33
  6.6 Lessons Learned ........................................................ 33
Chapter 7 Conclusion ............................................................ 34
List of Illustrations

Figure 1 Top Level System Diagram ................................................................. 9
Figure 2 Database Schema Diagram ...................................................................... 11
Figure 3 System Use Case ...................................................................................... 17
Figure 4 Controller Class Diagram ......................................................................... 18
Figure 5 Model Class Diagram ............................................................................... 19
Figure 6 Complete Order Sequence of Operations ................................................... 20
Figure 7 Find Item by ID Sequence of Operations .................................................... 21
Figure 8 System Generating and Displaying Barcode ................................................ 22
Figure 9 Customer Order and Total .......................................................................... 22
Figure 10 Reporting and User Specified Dates ........................................................ 23
Figure 11 Dropdown Menus and Company Logo ...................................................... 23
Figure 12 Item Maintenance .................................................................................... 24
Figure 13 Concurrency and Response Time Testing ................................................ 24
Figure 14 PostgreSQL Version and Operating System .............................................. 24
Figure 15 Printed Receipt ........................................................................................ 25
Figure 16 Printing Screenshot ................................................................................. 26
Figure 17 Project Schedule ..................................................................................... 28
Figure 18 Project Schedule Continued ...................................................................... 29
Figure 19 Phase 1 Risks .......................................................................................... 32
List of Tables

Table 1 Operational Requirements, As Of January 1, 2014 ................................................................. 6
Table 2 System Performance Specifications, As Of January, 2014 .......................................................... 6
Table 3 Physical Characteristic Specifications, As Of January, 2014 ...................................................... 7
Table 4 Utilization Environment Specifications, As of January 2014 .................................................... 7
Table 5 Functional Specifications, As of January 2014 ........................................................................... 8
Table 6 Summary of Software and Versions ............................................................................................... 10
Table 7 Summary of Gems and Versions ..................................................................................................... 10
Table 8 Hours Spent By Task ..................................................................................................................... 31
Table 9 Project Procurement Costs ......................................................................................................... 33