Computer Shop System

Supplementary Specification

Version 1.0

Revision History

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Supplementary Specification

# Introduction

When customer want to buy a computer and viewing it, they often have to go to the computer shop to check available computers. This lead to a thinking that customers may waste a time in some cases such as the computer shop is not available a desired computer. In addition, computers shop has many computers which is made by many brands.

So, our team have decided to build an idea about establish a Computer Shop System. With our system, it can solve all of problems stated above. Customers interact with our system and can check the availability of the computer and buy it online. Employees sell computers and update the databases.

The purpose of this document is to analyze and elaborate on the high-level needs and features of the Computer Shop System. It focuses on the capabilities and facilities provided by a computer shop.

## Purpose

The purpose of this Supplementary Specification is talked about the external behavior of the Computer Shop System. It is not only describing the operations, performance, and assurance requirements but also define the nonfunctional requirements (user interfaces). Besides, this document describes the design constraints which mention action constraints of user on a system to use easier, and other necessary factors for comprehensive description of the software requirements.

## Scope

The scope of Supplementary Specification defines all requirements in a single document. Our Computer Shop System is built for customer and employee about computers information by shopping online.

## Definitions, Acronyms, and Abbreviations

KLOC - Thousands of lines of code.

## References

TBD

## Overview

The supplementary specification document is composed of different section including Functionality, Security, Reliability, Performance, Supportability, Design Constraints, Online User Documentation and Help System Requirements, Purchased Components, Licensing Requirements, Legal, Copyright, and Other Notices, Applicable Standards.

The Functionality Requirements describes requirements of the systems which are expressed in the natural language style. This section will be organized by features or by users or organization by subsystem.

Security section includes all of the requirements that affect security.

Reliability section describes about availability (percentage of time available, hours of use, and maintenance access), mean time between failures, how long is the system allowed to be out of operation after it has failed, accuracy, maximum bugs, defect rate.

Performance section uses FIG figures to describe the performance characteristics of the system.

Extensibility section indicates any requirements such as scalability and customizability.

Design Constraints indicates any design constraints on the system being built. Such as software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints,

Online user documentation describes the requirements for on-line user documentation and help systems requirements.

Purchased Components describes any purchased components to be used with the system, any applicable licensing or usage restrictions, and any associated compatibility/interoperability or interface standards.

Licensing Requirements, Legal, Copyright, and Other Notices section describes any necessary legal disclaimers, warranties, copyright notices, notice, wordmark, trademark, or logo compliance issues for the software.

Applicable Standards section describes by reference any applicable standards and the specific sections of any such standards that apply to the system being described.

# Functionality

## Admin

- Admin is the highest role of the system, the person controls all the activities of system and the customers.

- Amin can manage products, manage news, manage order, manage customer and mange staff.

## Customer

-Customer is the person who access with the computer shop system.

-Customer can view about news, promotions, shopping cart, log in/log out, order product, have payment, rating.

# Usability

This system used as a web browser as an interface. The admin, customer or guesses can access the system via a web browser connected Internet. The guesses must create an account to be customer of the system and can order the computer. The system is easy to use, only try using half hour, the users can use it fluently because we have shown all the features of the system that the users don’t need instructions.

# Reliability

## Availability

The system is 100% of time available.

## Mean Time Between Failures

The system is allowed to be out of order at most once a year.

## Mean Time to Repair

The system is allowed to be out of operation within a couple of hours after it has failed.

## Accuracy

The system is 100% of accuracy.

## Maximum bugs or defect rate

1bug/KLOC.

## Information Security

The system provides 100% information security.

# Performance

## Response time for a transaction

Fast

## Throughput

Depends on the number of customer.

## Capacity

The system is capable of dealing with 500 customers at a time.

## Resource use

Memory of involved devices.

# Supportability

## Internet Protocols

TCP/IP protocol.

## Information Security

The system is secured.

## Billing System Compatibility

Computer Shop System is compatible with billing system.

## Maintenance

Minimum once a month.

# Design Constraints

## Software Language Used

HTML, CSS, JavaScript, PHP, SQL.

## Development Tools

Visual Studio Code.

# Online User Documentation and Help System Requirements

TBD.

# Purchased Components

TBD.

# Interfaces

## User Interfaces

The interface of the system is implemented based on existing web browsers.

## Hardware Interfaces

Local Area Network (LAN) will be used for collecting data from the users and also for updating the Computer shop’s catalog.

## Software Interfaces

Firewall and other network security solutions will be applied to prevent unauthorized access to the system.

## Communications Interfaces

The Computer Shop System will be connected to the Internet

# Licensing Requirements

License belongs to computer shop who purchased the Computer Shop System from Group – CT Computer and agreed on the maintenance contract.

# Legal, Copyright, and Other Notices

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# Applicable Standards

TBD.