Eyeconic - Glasses Shop Management System

Version 1.0

Revision History

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| **Date** | **Version** | **Description** | **Author** |
| 30/10/2019 | 1.0 | Final Draft | Trần Thị Mai Hương |
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# Introduction

## Purpose

The purpose of Supplementary Specification (SS) document is to describe the external behavior of the Eyeconic - Glasses Shop Management System. Requirements Specification defines and describes the operations, interfaces, performance, and quality assurance requirements. The document also describes the nonfunctional requirements such as the user interfaces, the design constraints that are to be considered when the system is to be designed, and other factors necessary to provide a complete and comprehensive description of the requirements for the system. The Supplementary Specification captures the complete software requirements for the system, or a portion of the system. Requirements described in this document are derived from the Vision Document prepared for the Eyeconic - Glasses Shop Management System.

## Scope

The Supplementary Specification captures all the requirements in a single document. The Eyeconic - Glasses Shop Management System that is to be developed provides the customers and the administrator of the shop with products’ information and many other facilities. The Eyeconic - Glasses Shop Management System is supposed to have the following features.

* The system is running every time.
* The system provides login, logout and sign up facility to users.
* The system allows the administrator to create, edit and delete the product, category, brand, orders, website preferences and users’ accounts.
* The system revenue statistics by month or by year for the admin.
* The system let users comment on products.
* The system also allow administrator and customer to chat through a built-in chat box

## Definitions, Acronyms, and Abbreviations

KLOC - Thousands of lines of code

## References

## Overview

The Supplementary Specification will provide a detailed description of the Eyeconic- Glasses Shop Management System. This document will provide the outline of the requirements, overview of the characteristics and constraints of the system.

# Functionality

There is no functional requirement of the system.

## Feature sets

-Content management capabilities

-An easy-to-use checkout

-A chat box section

-Email marketing integration

-Multiple means of communication (Messenger, Twitter, Instagram , etc.)

Feature sets requirements are collected by stakeholders meeting, questionnaire and survey.

## Security

-Secure user information and password.

-Secure system data.

Security functional requirements are collected by stakeholders meeting, questionnaires and survey.

# Usability

## One day of training for a normal user.

A normal user must spend one day to understand clearly how to use all features in the system.

# Reliability

## Availability

The system is 100% user-friendly and is used 24 hours a day and 365 days a year. The system is up and running 24 hours a day and 7 days a week.

## Mean Time Between Failures (MTBF)

At most a year.

## Mean Time To Repair (MTTR)

Within an hour or less, the system must work again.

## Accuracy

The system's reliability is constrained by the accuracy of the speed at which the system is used by store staff and users. At least 99.99% responds.

## Maximum bugs or defect rate

1 bug/KLOC

## Information Security

The system provides 100% information security

# Performance

## Response time for a transaction

Average: 2.20 seconds

Maximum: 3.96 seconds

## Throughput

97.5 Mbit/s.

## Capacity

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

## Resource use

Memory of involved devices.

# Supportability

## Coding standards

Code must follow all rules outlined in PSR-2.

## Naming conventions

Interfaces must be suffixed by Interface.

Abstract classes must be prefixed by Abstract.

PSR-1, 2 and 4 must be followed.

There must be a package/second-level namespace in relation with the PSR that covers the code.

# Design Constraints

## Software Language

PHP.

## Development Tools

Sublime Text, Visual Studio Code, mySQL, GitHub.

# Online User Documentation and Help System Requirements

User Manual should be specified for each of the feature available with the Eyeconic- Glasses Shop Management System.

# Purchased Components

Not required. Free Bootstrap, CodeIgniterFrameworks.

# Interfaces

## User Interfaces

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

## Hardware Interfaces

The existing Local Area Network (LAN) will be used for collecting data from the users.

## Software Interfaces

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

## Communications Interfaces

The Eyeconic- Glasses Shop Management System will be connected to the World Wide Web.

# Licensing Requirements

License belongs to owner of the glasses shop who purchased the the Eyeconic- Glasses Shop Management System from Group22 4C17/6C17 HANU and agreed on the maintenance contract.

# Legal, Copyright, and Other Notices

2019 Copyright to Group 22 4C17/6C17 HANU. All rights reserved.

# Applicable Standards

ISO/IEC 27001 Information security management.