Software Requirements Specification

for

Online Campus Security Management System

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

This Software Requirements Specification will describe the processes and functions of the Online Campus Security Management System version 1.0.Online Campus Security Management System provides an interface for both manager and workers to track their tasks on daily basis.

1.2 Document Conventions

1. All text contained in this document is 11pt Arial font.
2. Section titles are 14pt Times font.
3. All sections and subsection are numbered using the X.X.X… format, where X represents numbers.
4. Document text will be single-spaced and maintain 1" margins

1.3 Intended Audience and Reading Suggestions

Online Campus Security Management System 1.0 SRS is intended for developers, managers and users. This SRS contains the overall descriptions of the management system and all its features.

1.4 Product Scope

Online Campus Security Management System provides an interface for both manager and workers to track their tasks on daily basis .Each user, manager or worker, will have a different user interface. The manager will have a traditional manager user interface, with the worker having a traditional worker interface. The manager interface will allow for entering of new tasks, editing tasks, deleting tasks, and searching of tasks. The manager interface will also allow for creating a weekly routine for workers and to accept/decline their leave requests . The worker interface will allow them to get their tasks and mark tasks that they have completed. The system will also provide a history of previous leaves and allow them to request for leaves. Workers can also view their leave request status.

1.5 References

At this time this SRS does not reference any outside resources.

2. Overall Description

2.1 Product Perspective

The Online Campus Security Management System *will be a new self-contained product. Communication will be done via a Java interface to a server that will connect with the SQL database that stores the all the information.//attach diagram*

2.2 Product Functions

The log-on interface

- *The system will allow new users to create account .*
- *The system will allow existing users to log-on to their account*
- *The system will provide general help information*

The manager interface

- *Create routine for upcoming 7 days for all persons considering leave requests.*
- *Approve/decline leave request*
- *Monitoring*

The worker interface

- *View duty date, place, start time, end time (upcoming 7 days schedule can be viewed)*
- *Request manager to take leave or to do over duty*
- *Request approved/declined*
- *Number of leaves taken/ number of allowed leaves remaining.*

2.3 User Classes and Characteristics

The intended users for the Online Campus Security Management System will be managers and their workers/security members. The system will require basic understanding of how a computer works, i.e. how to turn it on. It is expected that the user will have very little technical expertise.

2.4 Operating Environment

The Online Campus Security Management System will run on a Windows 8 platform and a Mac X operating system. Complications may arise if run on something earlier than Windows 8. The System will need to communicate between the Java application and the SQL Database software.

2.5 Design and Implementation Constraints

The system must be programed in an object-oriented language, in this case we will be using Java. The system must use an internet connection or the user will not be able to communicate with the database. The Online Campus Security Management System must be portable so that multiple computers may be used to look at the information. The SQL database must be attached to the system. At this time, testing has not been done on versions earlier than Windows 8.

2.6 Assumptions and Dependencies

One assumption that could affect the design is that the user runs a Mac X or Windows 8 operating system; a Windows operating system less than version 8 may cause unknown effects to the system functionality. Another assumption that could affect the design is that the user will have adequate internet connection; this could affect the speed with which the interface communicates with the database. Lastly, this system will be written for users with a basic understanding of how computers work. Users with less computer experience may have a harder time.

3. External Interface Requirements

3.1 User Interfaces

The Task Management System will have three main graphical user interfaces:

- *The log-on interface will allow new users to create account and existing users to log-on to their account.*
- *The manager tasks interface will allow manager to create routine for upcoming 7 days for all persons considering leave requests and allow them to accept/reject the leave request.*
- *The worker interface will allow workers to view duty date, place, start time, end time and request leaves.*

3.2 Hardware Interfaces

The Task Management System does not require a hardware interface.

3.3 Software Interfaces

The Task Management System will be using a Java API to communicate to the server, which will allow access to the SQL database.

3.4 Communications Interfaces

The Task Management System will use the JDBC driver to communicate with the SQL database.

4. System Features

The product has been divided into three category:

- *The log-on interface*
- *The manager interface*
- *The worker interface*

4.1 The log-on interface

4.1.1 Description and Priority

The log-on interface will allow new users to create account and existing users to log-on to their account.

4.1.2 Stimulus/Response Sequences

- *Manager registration*
- *Manager log-in*
- *Manager log-out*
- *Worker registration*
- *Worker log-in*
- *Worker log-out*

4.1.3 Functional Requirements

REQ 1.0 Start-up
REQ 1.1 The system will allow manger for Manager Registration.
REQ 1.1.1 The system will ask for name,id,password.
REQ 1.1.2 The system will show “Registration successful”.

REQ 1.2 The system will allow for Manager log-in.
REQ 1.2.1 The system will ask for id and password.
REQ 1.2.2 The system will give access to manager interface to edit tasks if id and password are correct.
REQ 1.2.3The system will allow manager to log-out.

REQ 1.3The system will allow for Worker Registration.
REQ 1.3.1 The system will ask for name,id,password.
REQ 1.3.2 The system will show “Registration successful”.

REQ 1.4 The system will allow for worker log-in.
REQ 1.4.1 The system will ask for id and password.
REQ 1.4.2 The system will give access to worker interface to check tasks if id and password are correct.
REQ 1.4.3The system will allow worker to log-out.

4.2 The manager interface

4.1.1 Description and Priority

The manager tasks interface will allow manager to create routine for upcoming 7 days for all persons considering leave requests and allow them to accept/reject the leave request.

4.1.2 Stimulus/Response Sequences

- *Create routine for upcoming 7 days for all persons considering leave requests.*
- *Approve/decline leave request*

- *Monitoring*

4.1.3 Functional Requirements

REQ 1.0 Manger logged-in through log-on interface
REQ 1.1 The system will allow manager to create routine for upcoming 7 days for all persons considering leave requests and allow them to accept/reject the leave request.
REQ 1.2 The system will allow manager to accept/reject worker's leave request.
REQ 1.3 The system will allow manager to check worker's work history.
REQ 1.4 The system will allow manager to check worker's leave history.
REQ 1.5 The system will allow manager to check worker's profile and details.
REQ 1.6 The system will allow manager to confirm tasks have been completed.
REQ 1.7The system will allow manager to log-out through log-on interface.

4.3 The worker interface

4.1.1 Description and Priority

•The worker interface will allow workers to view duty date, place, start time, end time and request leaves.

4.1.2 Stimulus/Response Sequences

- *View duty date, place, start time, end time (upcoming 7 days schedule can be viewed)*
- *Request manager to take leave or to do over duty*
- *Request approved/declined*
- *Number of leaves taken/ number of allowed leaves remaining.*

4.1.3 Functional Requirements

REQ 1.0 Manger logged-in through log-on interface.
REQ 1.1 The system will allow workers to check duty date, place, start time, end time (upcoming 7 days schedule can be viewed).
REQ 1.2 The system will allow workers to request leave.
REQ 1.3 The system will allow workers to request overduty.
REQ 1.4 The system will allow workers to check their leave/overduty request status.
REQ 1.5The system will allow workers to check their salary at the end of month.
REQ 1.6The system will allow workers to check their total leaves/remaining leaves at the end of month.
REQ 1.7The system will allow worker to log-out through log-on interface.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The system shall perform basic operations in less than 2 seconds. While navigating the system, user interfaces should update quickly, this is not an issue and doesn't need to be addressed. The system shall run on a Windows 8 platform and a Mac X operating system. The System shall communicate between the Java application and the SQL database. The SQL database needs to have the capacity to grow.

5.2 Safety Requirements

The level of security for this product is refined mostly to the privacy needs between users. Because the manager is responsible for generating and distributing rewards, improper entry into the manager's profile may result in malicious activities leading to false payouts. Privacy between workers is also important to the client because siblings, peers, or other workers using the product may utilize the ability to enter another worker's profile with negative intent.

- *User account names will be associated with a password which will be chosen by the user upon first use.*
- *Manager passwords will be associated with one secret question to assist in password reset.*

5.3 Security Requirements

- Worker password reset will be performed by the manager
- *If the manager enters an incorrect password 3 times, they will be locked out*
- *If the worker enters an incorrect password 3 times, they will be locked out.*

5.4 Software Quality Attributes

Maintainability :The system code should be written to allow for future possible upgrades. Code will be documented, including version updates and authors. Code will be fully commented. Each method will include a description of its function and any additional information needed to help in future additions

5.5 Business Rules

The product should be available to everybody with guidelines.

6. Other Requirements

There are no other requirement for this system.

Appendix A: Glossary

No data for this section.