Software Requirements Specification

Version 1.0

<<Annotated Version>>

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Beauty Parlour Management System

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Of the requirements of

CS 310 Software Engineering

<<Any comments inside double brackets such as these are *not* part of this SRS but are comments upon this SRS example to help the reader understand the point being made.

Refer to the SRS Template for details on the purpose and rules for each section of this document >>

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**1.0. Introduction**

***1.1. Purpose***

The purpose of this document is to present a detailed description of the Beauty Center Web System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders to the Regional Historical Society for its approval and the developers of the system and will be proposed

***1.2. Scope of Project***

This software system will be a Beauty Center Web System for a local manager of this center. This system will be designed to maximize the manager’s productivity by providing tools to assist in automating the client services products , which would otherwise have to be performed manually. By maximizing the center’s work efficiency and production the system will meet the manager’s needs while remaining easy to understand and use.

***1.3. Glossary***

|  |  |
| --- | --- |
| **Term** | **Definition** |
| client | The person who visits the Web System to buy products or appointment booking |
| manager | the owner of the beauty center and the admin of the Web Site System |
| service | Appointments for cosmetic sessions, massage sessions and plastic surgery |
| Stakeholder | Any person with an interest in the project who is not a developer. |
| Software Requirements Specification | A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document. |

***1.4. References***

IEEE. *IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications.* IEEE Computer Society, 1998.

***1.5. Overview of Document***

The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product

Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language.

# 2.0. Overall Description

## 2.1 System Environment

client

Manager

Beauty Center System

Web Site managemnet

Beauty Center Web System

Figure - System Environment

The Web Beauty Center has to2 active users clients and manager.

The client accesses the Web Beauty Center through the Internet. Any client communication with the system is through email. The Editor accesses the entire system directly

.

<< The division of the Web Beauty Center System into two component parts, the Beauty Center System and the Web site management, is an example of using domain classes to make an explanation clearer. >>

## 2.2 Functional Requirements Specification

## This section outlines the use cases for each of the active clients separately.

The clients have only one use case apiece while the manager is main actor in this system.

### 2.2.1 Clients: Use Case

Use case: Search service

**Diagram:**

Client

Search Service

**Brief Description**

The Client accesses the Beauty Center Website, searches for a services.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Client has already accessed the Beauty Center Website.

1. The Client chooses to search services.
2. The system displays the choices to the Client.
3. The Client selects the service desired.
4. The system provides the requested service.
5. **Xref:** Section 3.2.1, Search Article

**2.2.1 Use case : Search service**

Client

Search Service

**Brief Description**

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**Initial Step-By-Step Description**

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2. The system displays the choices to the Client.
3. The Client selects the service desired.
4. The system provides the requested service.

**Xref:** Section 3.2.1, Search service

### 2.2.2 Manager Use Cases

Manager

Edit Service

### 

### 2.2.3 Use case : Edit Services

## 2.3 User Characteristics

The Client is expected to be Internet literate and be able to use a search engine and to be able to use email with attachments.

The Manager is expected to be Windows literate and to be able to use button, pull-down menus, and similar tools.

## 2.4 Non-Functional Requirements

The Beauty Center Website will be on a server with high speed Internet capability. The physical machine to be used will be determined by the Historical Society. The software developed here assumes the use of a tool such as Tomcat for connection between the Web pages and the database. The speed of the Client’s connection will depend on the hardware used rather than characteristics of this system.

The Website Manager will run on the Manager’s PC and will contain an Access database. Access is already installed on this computer and is a Windows operating system.

# 3.0. Requirements Specification

## 3.1 External Interface Requirements

The only link to an external system is the link to the Database to verify the membership of clients. The Database fields of interest to the Beauty Center Web System are client name, membership (ID) number, and email address (an optional field for the Database).

3.2 ***Functional Requirements***

3.2.1 Search service

|  |  |
| --- | --- |
| **Use Case Name** | Search service |
| xref | Section 3.2.1, Search service |
| **Trigger** | The client assesses the Online Beauty Center Website. |
| **Precondition** | The Web is displayed with grids for searching. |
| **Basic Path** | 1. The client chooses how to search the Website , there is one button "services". 2. The system creates and presents an alphabetical list of all services in the database. 3. The client selects a service. 4. The system presents a list of available appointments. 5. The client choose an appointment. |
| **Postcondition** | The system books an appointment |
| **Exception Paths** | The client may abandon the search at any time. |

3.2.2: Edit Services

|  |  |
| --- | --- |
| **Use Case Name** | Edit Services |
| **XRef** | Section 2.2.2 edit services |
| **Trigger** | The Manager selects to update the services in the database. |
| **Precondition** | The Manager has accessed the services Manager main screen and the service is already in the database. |
| **Basic Path** | 1. The system creates and presents a list of all services. 2. The Manager selects the service to update. 3. The system presents the information about the service in grid format. 4. The Manager updates the information and resubmits the form. |
| **Alternative Path** | 1. The manager selects to add a service. 2. The system presents a blank grid to enter the service information. 3. The Manager enters the information and submits the form. |
| **Postcondition** | The Service has been added to the database. |
| **Exception Paths** | The Manager may abandon the operation at any time. |
| **Other** | The service information included name and price. |

## 3.3 Detailed Non-Functional Requirements

### 3.3.1 Logical Structure of the Data

The logical structure of the data to be stored in the internal Article Manager database is given below.

service

Manager

Edit

add

Update information

Update

and

reports

remove

The data descriptions of each of these data entities is as follows:

Service Entity

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Name | Text | Name of service |  |
| Price | Number | Price of this service |  |

### 3.3.2 Security

The server on which the Beauty Center Website resides will have its own security to prevent unauthorized *write*/*delete* access. There is no restriction on *read* access. The use of email by an Client is on the client systems and thus is external to the system.

The PC on which the Service Manager resides will have its own security. Only the Manager will have physical access to the machine and the program on it. There is no special protection built into this system other than to provide the manager with *write* access to the Beauty Center Website to update services.