eCommerce CMS Software Requirements Specification

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Abstract

eCommerce CMS is a software solution for small business customers looking for an initial online presence. The eCommerce CMS application will offer both a web service for HTTP requests and sets of internet-accessible web pages served by that web service.

This Software Requirements Specification is intended to outline the necessary outcomes and performance specifications required for eCommerce CMS to be considered fully functional and deployable.

Contents

List of Figures

List of Tables

Term	Definition
Shall	A contractual obligation without which this software shall be considered incomplete.
Should	An optional provision offering guidance for functional requirements.
Will	An optional provision offering guidance for design requirements.
User	Small business owner, or agent thereof, intending to deploy a web service and corresponding web sites.
Customer	A customer of the small business owner who intends to use the web service or one of the web sites deployed by the user.
Application	The eCommerce CMS software suite outlined in this SRS.
Back-End	The web service offering HTTP endpoints and serving web sites
User Front-End	The collection of web sites that offer creation and management functionality to the user.
Customer Front-End	The collection of web sites customized by the user displaying a web store or data entry fields for proposal generation.

Table 1: Definitions used in this SRS.

5 Software Requirements Specification

5.1 Introduction

5.1.1 Identification

This Software Requirements Specification (SRS) documents the requirements for the small business utility web service and web site, called eCommerce CMS.

5.1.2 System Overview

The eCommerce CMS application will offer a Java-based web service which will allow for HTTP requests to qualified users. The Java-based service will also serve two sets of front-end web pages. Through the first set, small business users of the application can implement and manage an online business management and sales solution. Through the second set, customers of the small business will be able to interact with the small business either through making purchases on an eCommerce web site or through committing information required for generation of a proposal.

5.1.3 Document Overview

This SRS is a minimized form of a typical SRS due to time constraints. In the following sections there will be a section dedicated to Functional Requirements, Performance Requirements, and finally Environmental Requirements. Following these Requirements sections there will be an appendix.

Table 1 defines key terms that are used within this document.

The application is the Computer Software Configuration Item (CSCI) and consists of three major Computer Software Components (CSC). The CSCI is broken down into the back-end CSC, the user front-end CSC, and the customer front-end CSC. Each respective CSC can further be broken down to several Computer Software Units (CSU). This document will specify some

eCommerce CMS	Back-End	

Table 2: CSCI, CSC, and CSU Hierarchy

of the CSU's that are intended in table 2, but this list shall in no way bind or limit the number of CSU's that will be developed within eCommerce CMS.

5.2 Functional Requirements

The Functional Requirements section is segmented into subsections consisting of one functional requirement each. These subsections flow sequentially from back-end, to user front-end, and finally to customer front-end.

5.2.1 Functional Back-End Requirement 1

The back-end shall provide a URI contract with a set of HTTP endpoints to access web service functions for all functions offered by the web service when hit by an HTTP request.

5.2.2 Functional Back-End Requirement 2

The back-end shall respond to all front-end page requests through HTTP endpoints within 2 seconds in accordance with functional back-end requirement 5.2.1.

5.2.3 Functional Back-End Requirement 3

The back-end shall provide a persistent data store with saved input data from the user and from customers to offer invoice, proposal, report, and web store content generation by the user.

5.2.4 Functional Back-End Requirement 4

The back-end shall provide an endpoint that generates

5.2.5 Functional User Front-End Requirement 1

5.2.6 Functional Customer Front-End Requirement 1

5.3 Performance Requirements

5.3.1 Performance Requirement 1

5.4 Environment Requirements

5.4.1 Development Environment Requirements

5.4.2 Execution Environment Requirements