BackOffice Requirements Specification

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1. **Introduction**
   1. **Purpose of Document**

This is a Requirements Specification Document for the new release of Backoffice a web-based application that will use web-APIs to perform CRUD operations. The new system will replace the existing Backoffice. It will retain all existing functionality per account logged into the Backoffice application. Customers and Travis Industries personnel will continue to receive information as it pertains to “MyAccount, Sales, pricing and training, product information, Ads & marketing and GreenSmart. This document describes the scope, objectives and goal of the new system. In addition to describing non-functional requirements, this document models and assist in the functional requirements with use cases, interaction diagrams, and class models. This document is intended to direct the design, development, implementation of the new Backoffice. It is also intended to be dynamic as needs arise. The new Backoffice is to address the current limitations posed by the current Backoffice. The new Backoffice is to implement the latest technology in order to provide flexibility in scalability, as well new security. The front end will implement HTML, CSS, Bootstrap, JavaScript, and JQuery and will be developed with Visual Code, Angular 14 in a single page architecture; BackOffice backend will be developed using C# in an MVC architecture in ASP.NET7.

* 1. **Project Summary**

**Project Name**: BackOffice

**Project Manager**: Don Corwin

**Project Analysts**: Analyst Don Corwin, Analyst/Architect Leopoldo Valverde,

Analyst Robin Haider

**Principal Developer**: Leopoldo Valverde

**Responsible Users**: VP Sales Kip Rumens, Marketing Director Gary Webster, Accounting Manager Russ Morgan, Sales Personnel

* 1. **Background**

Backoffice is one of the core applications at Some company that supports day to operations for various departments such as Sales, Marketing, Accounting, Inventory, technical support, as well as other departments. The current Backoffice web application was written using code that is over 20 years old, such version of the code is no longer supported and hasn’t been supported for many years. As a legacy application Backoffice lacks in the following areas: Is limiting in support to Travis Industries in its growth and as an organization, lacks in security, lacks in supports for growth within the different departments particularly when it comes to sales and marketing as they add new product lines that may contain layered child products, the application is also limiting when adding new features. A new Backoffice implementing the latest technology will provide unlimited growth potential and opportunities for a given company as well as ease of development, flexibility, and communication between the various backend systems at a given company.

**1.4** **Project Scope**

The scope of this project is to develop and implement a multi-tier web-based system that supports Sales, Marketing, Accounting, Inventory, Engineering and Technical Support.

* 1. **System Purpose**

Sales Support:

A given company is experiencing an exponential increase in sales and addition of new accounts. The new Backoffice will facilitate the creation, addition and activation of new dealers into the system. It will also provide training information and resources.

Marketing:

The new Backoffice will support existing functionality in creation of new Product Lines and supporting documentation.

Accounting:

The new Backoffice will support existing functionality.

1. **Functional Objectives**
   1. **Priorities**

* The new Backoffice shall allow for creation of new account/dealers through an admin page.
* The new Backoffice shall allow the new account/dealers to be added to Some company systems and the new added account/dealers shall be made available to all systems in real time.
* The new Backoffice shall allow activation of the newly added account/dealers to be activated.
* The new Backoffice shall allow for updates/deactivation of existing account/dealers.
* The new Backoffice shall allow support of existing product lines as well as creation of new product lines and addition product line categories as well as creation of child products within their corresponding categories. For example: for Product line Avalon, FPX, Lopi, etc. The product line will be of type Gas, Pellet or Wood and be of type Fireplace, Insert or Stove.
* The new Backoffice shall support existing accounting processes such as RMAs, Burn Credit, Coops, and Dealers Cyber Store features.

1. **Non-Functional Objectives**
   1. **Reliability**

* Backoffice shall be completely operational at all times
* Down time shall be scheduled for scheduled for updates which will be performed after business hours.
  1. **Usability**

* Backoffice shall allow access to features of the application based on login credentials entered on login page.
* Backoffice shall allow for access and use to admin features in as need basis.
  1. **Performance**
* Backoffice shall be a multitier system to ensure maximum speed and performance.
* Implementation of async API calls will allow for maximum throughput utilization of the operating system.
* REST API calls shall ensure light data and secure HTTP data transfers.
  1. **Security**
* Backoffice shall provide password protected access to web pages that are to be viewable according to the corresponding login credentials.
* Backoffice data must be transmitted in encrypted form.
  1. **Support**
* The system shall be architected in a way that product lines can be added with minimal code changes.
* Backoffice will be viewable with most browsers as well as mobile devices.
  1. **Online user Documentation and Help**
* Backoffice shall provide a web page that explains how to navigate the site. This page should contain information based on pages the user is allowed to access.
* The Backoffice page shall be accessible from all pages, and shall be a pop up.
  1. **Interfaces**
* Backoffice shall interface with SQL Server (sql04 and sql05)
* Backoffice shall interface with accounting pricing information.
* Backoffice shall interface with the internal file server.
* **To Be Determined**

1. **Context Goal**
   1. **Goal Statement**

The goal of the new Backoffice is to allow and to create opportunity for growth by providing new tools to the various departments within Travis Industries; particularly the sales and marketing and accounting department.

* 1. **Context Diagram**

Accounting

Engineering

Backoffice

System

Marketing

Sales

Coops RMAs Sales Dealers Sign up Product Creation Documentation

Burn Credit Cyber Store

Technical

Support

Customer Support

Bill of Materials Design Orders Parts

Inventory

1. **The Use Case Model**
   1. **Use Case Descriptions (for selected scenarios)**

**Notes:**

* Active participation from the various department is needed