

Software Requirements Specification

for

AdminR

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Initial Construction	7/26/21	Initial Construction.	v1.0

1. Introduction

1.1 Purpose

This document describes the specification requirements for the AdminR web administrator application. It lays out the individual features required to have a fully functional application.

1.2 Intended Audience

This document is intended for Ezoic engineers to understand the scope of the application, beyond what I was able to implement.

1.3 Produce Scope

This product shall provide administrative tools for any admin needing to view or modify the system's database.

2. Overall Description

2.1 Product Perspective

This application is to be implemented with an existing MySQL database. Therefore, all new additions will be reflected in this document.

2.2 Product Functions

- View all database tables with intuitive navigation.
- Search for any data field in each table for that entry.
- Add, modify, or delete table entries.

2.3 Operating Environment

The AdminR web system can be accessed on any web browser via its website. The server will be hosted and ran on Ezoic's cloud stack.

2.4 Design and Implementation Constraints

The main constraints are time, given only 24 hours to develop the system, implemented features only account for a small number of planned features.

3. System Functional Requirements

3.1 View Tab

Use Case 1	View Customers
Actor	Administrator
Flow	Administrator clicks the View button, then clicks the Customer button for a list of all customers.

Use Case 2	View Products
Actor	Administrator
Flow	Administrator clicks the View button, then clicks the Products button for a list of all products.

Use Case 3	View Orders
Actor	Administrator
Flow	Administrator clicks the View button, then clicks the Orders button for a list of all orders.

Use Case 4	Search Customers
Actor	Administrator
Flow	Administrator clicks the View button, then types in their search and clicks Customers, which will display all customers where the customerNumber, customerName, contactLastName, or contactFirstName match the search.

Use Case 5	Search Products
Actor	Administrator
Flow	Administrator clicks the View button, then types in their search and clicks Products, which will display all Products where the productCode, productName, or productLine match the search.

Use Case 6	Search Orders
Actor	Administrator
Flow	Administrator clicks the View button, then types in their search and clicks Orders, which will display all Orders where the orderNumber, status, or customerNumber match the search.

Use Case 7	Get Customer Details
Actor	Administrator
Flow	Administrator already has a list of customers loaded as in Use Case 1 or 4. They will click any listed customer which will then display all related order information, as well as payment information.

Use Case 8	Get Product Details
Actor	Administrator
Flow	Administrator already has a list of products loaded as in Use Case 2 or 5. They will click any listed product which will then display information about its product line. Additionally, all "In Progress" orders and order details will be displayed.

Use Case 9	Get Order Details
Actor	Administrator
Flow	Administrator already has a list of orders loaded as in Use Case 3 or 6. They will click any listed order which will then display information about the customer of that order, as well as the order details information.

Use Case 10	Sort Customer Table
Actor	Administrator
Flow	Administrator already has a list of customers loaded as in Use Case 1 and 4. Clicking the header of a column will sort the entire table, ascendingly. Clicked an additional time will sort them descending.

Use Case 11	Sort Products Table
Actor	Administrator
Flow	Administrator already has a list of products loaded as in Use Case 2 and 5. Clicking the header of a column will sort the entire table ascendingly. Clicked an additional time will sort them descending.

Use Case 12	Sort Orders Table
Actor	Administrator
Flow	Administrator already has a list of orders loaded as in Use Case 3 and 6. Clicking the header of a column will sort the entire table ascendingly. Clicked an additional time will sort them descending.

Use Case 13	View Offices
Actor	Administrator
Flow	Administrator clicks the View button, then clicks the Offices button for a list of all customers.

Use Case 14	Search Offices
Actor	Administrator
Flow	Administrator clicks the View button, then types in their search and clicks Offices, which will display all Offices where the officeCode, city, state, country, or territory match the search.

Use Case 15	Get Office Details
Actor	Administrator
Flow	Administrator already has a list of offices loaded as in Use Case 14. They will click any listed office for a list of Sales Rep Employees' information who work at that office.

Use Case 16	Get Employee's Customers' Details
Actor	Administrator
Flow	Administrator already has a list of Sales Rep Employees listed as in Use Case 16. Clicking any of the employees will display all customers of that Sales Rep.

3.2 Add New Tab

Use Case 17	Add New Customer
Actor	Administrator
Flow	Administrator clicks the Add New task bar button, then clicks Customers button which will display a form to add new customer information. When finished, they click Add Customer and if successful, are greeted with a success message. If not, error message will be displayed.

Use Case 18	Add New Product
Actor	Administrator
Flow	Administrator clicks the Add New task bar button, then clicks Products button which will display a form to add a new product information. When finished, they click Add Product and if successful, are greeted with a success message. If not, error message will be displayed.

Use Case 19	Add New Order
Actor	Administrator
Flow	Administrator clicks the Add New task bar button, then clicks Orders button which will display a form to add a new order information. When finished, they click Add Order and if successful, are greeted with a success message. If not, error message will be displayed.

Use Case 20	Add New Product Line
Actor	Administrator
Flow	Administrator clicks the Add New task bar button, then clicks Product Line button which will display a form to add a new product line information. When finished, they click Add Product Line and if successful, are greeted with a success message. If not, error message will be displayed.

Use Case 21	Add New Employee
Actor	Administrator
Flow	Administrator clicks the Add New task bar button, then clicks Employee button which will display a form to add a new employee information. When finished, they click Add Employee and if successful, are greeted with a success message. If not, error message will be displayed.

4. System Non-Functional Requirements

4.1 Server HTTP Requests

The server will handle all HTTP requests. If numerous administrators are working in parallel, the database connections should be done with `mysql.createPool()` rather than `mysql.createConnection`. Currently, numerous administrators are unlikely and therefore this is not necessary.

4.2 Administrator Logs

The server will log all administrator actions upon request received to keep track of changes.

4.3 Security Requirements

As AdminR manages all US National Security data, as well as the UN and World Bank, security is a must and therefore the server and connections will be made on a block-chain to ensure data integrity and safety.