**Jewelry Management System (JMS)**

**Installation and Deployment Guide**

**Software Version: 1.0.0**

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# INTRODUCTION

## Purpose

The purpose of this Installation and Deployment Guide is to describe in technical terms the steps necessary to install the software and make it operational.

## Introduction to the Jewelry Management System

The aim of this project is to develop a software system designed to streamline the management of a jewelry business. The Jewelry Management System (JMS) provides essential tools for managing various aspects of the business, ensuring efficient operations and improved customer service. The system encompasses the following key functionalities:

• Login/Register

• Homepage

• Manage Products

• Manage Product Types

• Manage Supplier

• Manage Purchase Order

• Manage Sales Order

## References

| Reference No. | Document | Author(s) |
| --- | --- | --- |
| REF-1 | [How to: Install SQL Server 2022](http://msdn.microsoft.com/en-us/library/ms143219.aspx) | Microsoft |
| REF-2 | [Microsoft .NET Framework](https://learn.microsoft.com/en-us/dotnet/framework/install/dotnet-35-windows) | Microsoft |

## Definitions, acronyms and abbreviations

| Term | Definition |
| --- | --- |
| Administrator | This is anyone from the client that has been given administrative rights in the JMS. |
| IIS 7 | Microsoft Internet Information Server 7 |
| JMS | Jewelry Management System |

# Server Configurations

## Server 1 (Database)

The installation of this product is supported by the following operation systems and versions:

* Windows Server 2022 (x64)
* Windows Server 2019 (x64)
* Windows Server 2016 (x64)

### Roles, Features, and Packages

The following software packages must be installed on the operating system prior to installation of the software:

Microsoft SQL Server 2022 R2 (see REF-1)

* Database Engine
* Connectivity Components
* Management Tools

### Configuration

SQL Server Configuration:

Authentication

Mixed mode authentication should be enabled

SQL Server Network Configuration

TCP/IP should be enabled

Named Pipes should be enabled

### Configured Values

Use the table below to make note of the values for your installation environment for future reference. (Note: recording of information throughout should be in keeping with your local policies for system documentation and password security).

| Information | Value |
| --- | --- |
| Server name |  |
| SQL instance name |  |
| SQL Server Administrator account name |  |
| SQL Server Administrator account password |  |

## Server 2 (Web Application)

The installation of this product is supported on the following operation systems and versions:

* Windows Server 2022 (x64)
* Windows Server 2019 (x64)
* Windows Server 2016 (x64)

### Roles, Features, and Packages

**Roles**

The following server roles must be enabled on the operating system prior to installation of the software:

* Web Server (IIS)

**Packages**

The following software packages must be installed on the operating system prior to installation of the software:

* Microsoft .NET Framework 4.3.1 Standalone Installer (see REF-2)

### Configured Values

Use the table below to make note of the values for your installation environment for future reference.

| Information | Value |
| --- | --- |
| Server Name |  |

# Software Installation

## Server 1 (Database)

### Prerequisites

1. All steps in section 2 “Server Configurations” have been performed.

### Installation Steps

1. Open SQL Server Management Studio and log into the server and instance using the account name and password you noted in section 2.1.3.
2. In the "Connect to Server" window, select "Database Engine" as the server type. Choose "SQL Server Authentication" for the authentication method, then enter the "Login" and "Password" you previously noted.

A screenshot of a computer

Description automatically generated

Figure : Connect SQL Server Authentication

1. Open the file named "SQL\_v1.sql".

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Figure : Open SQL source code

1. Create a new database catalog called "QLVBDQ", then execute all 18 rows of the script.

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Figure : Execute new database

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Figure : Table row of database

## Server 2 (Web Application)

### Prerequisites

1. All steps in section 2 “Server Configurations” have been performed.
2. All steps in section 3.1 “Software Installation, Server 1 (Database)” have been performed.

### Installation Steps

1. Open the "Source Code JMS" file in Visual Studio 2022.
2. Locate and open the "DataProvider" file to modify the connection name.

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Figure : DataProvider File

1. On line 24 of the "DataProvider" file, update the connectionSTR variable to match your server details. The server’s name can be found in **Figure 1**.

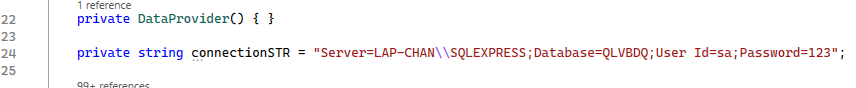


Figure : Update the connectionSTR variable

1. Click "Start" to run the JMS application.

A screen shot of a computer

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Figure : Screen of login page JMS application