DETAILED ACHITECTURE OF THE AUTOMATED REPORTING SYSTEM

Contents

1.0 Background

Manual process of capturing sales records in a CSV file and uploading them to the system is tiring to the system user. A user can easily forget to update records for a particular day, hence losing some information.

1.1 Objective

Development of a fully automated system that will read the csv files that are dumped in a shared folder by the ERP system and update its own database.

2.0 The Process Flow

The ERP System will dump the CSV file with the agreed data format into the shared folder on the server which will always be monitored by the new ASP.Net Core built system for any new files added to the folder.

Once the new file is added to the folder, the new system will the open it and read all the data in the file and then use it to update its own database. This process will be achieved with the help of a File System Watcher that is inbuilt with in ASP.Net Framework.

The File System Watcher can be configured to read any new file that has be created within the shared folder. This can be achieved by calling the change event handler of the file system watcher and setting the EnableRaisingEvents to true.

2.1 Process Flow Chart

ERP System

Shared folder on the server where the formatted CSV files are dumped

Dumps the CSV files to the shared folder

The New system always monitors, Picks up and Reads the new CSV Files that have been created/dumped in the folder Using the File System Watcher Class defined in the .NET Framework.

New System (ASP.NET Core App)

The system then updates the user interface depending on the user's request

User Interface

The system now queries its own data depending on the request from the user.

The System the updates its own database with the records it reads from the new CSV file

Database (sql Database)