A green and black logo

Description automatically generated

New Reporting Tool Implementation Using Python Streamlit

ICM Computer Systems Limited – VER 20241118

I7DW: new Reporting Tool Implementation Using Python Streamlit

ICM COMPUTER SYSTEMS LIMITED

2024

Table of Contents

[1. Overview 1](#_Toc182820015)

[2. Installation Instructions 1](#_Toc182820016)

[2.1 Choose an Installation Directory: 1](#_Toc182820017)

[2.1.1 Decide where you want the application files to be installed. 1](#_Toc182820018)

[2.1.2 Move and Extract the ZIP Folder: 1](#_Toc182820019)

[2.2.3 Navigate to the Extracted Folder: 1](#_Toc182820020)

[3. Installing Python: 1](#_Toc182820021)

[4 Set up the Config.toml and Screts.toml file 2](#_Toc182820022)

[4.1 Open the secrets.toml file. 2](#_Toc182820023)

[4.2 Update the secrets\_tla.toml 2](#_Toc182820024)

[5.Run the Setup Batch File: 3](#_Toc182820025)

[6. Access the Application: 3](#_Toc182820026)

[7. Setting Up of Streamlit Apps on Windows 3](#_Toc182820027)

[7.1 Step 1: Create a Batch Script to Run Streamlit Apps in the Background 3](#_Toc182820028)

[7.1.1 Creating the .bat file: 3](#_Toc182820029)

[7.1.2. Save the file. 4](#_Toc182820030)

[7.2 Step 2: Set Up Task Scheduler to Run the Script at Startup 4](#_Toc182820031)

[7.2.1. Opening the task Scheduler. 4](#_Toc182820032)

[7.3 Step 3: Create a New Task 4](#_Toc182820033)

[7.4 Step 4: Configure Triggers 4](#_Toc182820034)

[7.5 Step 5: Configure Actions 4](#_Toc182820035)

[7.6 Step 6: Test the Task 4](#_Toc182820036)

[8. Configure Inbound Rules in Windows Firewall 5](#_Toc182820037)

[9. Required Software and Libraries 5](#_Toc182820038)

[9.1. Python: 6](#_Toc182820039)

[9.2 pip (Python Package Installer): 6](#_Toc182820040)

[9.3. Pre-downloaded Python Dependencies (.whl files): 6](#_Toc182820041)

[9. 4. Streamlit: 6](#_Toc182820042)

[10. Python Naming Conventions and Best Practices 6](#_Toc182820043)

[10.1 Summary of Naming Conventions 6](#_Toc182820044)

[11. Streamlit Application 0](#_Toc182820045)

[http://localhost:8501 0](#_Toc182820046)

[12. Documentation 1](#_Toc182820047)

[http://localhost:8502 1](#_Toc182820048)

A screenshot of a computer

Description automatically generated

# 1. Overview

The Infeed700 application is an interactive platform developed by **ICM Computer Systems Limited** using Streamlit. It provides embedded dashboards and SSRS (SQL Server Reporting Services) reports, allowing users to access and visualize data efficiently in an on-premises environment. This application is designed to serve multiple clients, offering a user-friendly and responsive interface.

# 2. Installation Instructions

Follow these steps to set up the Infeed application on your local machine:

## 2.1 Choose an Installation Directory:

### 2.1.1 Decide where you want the application files to be installed.

This could be a specific directory, such as ***C:\Program Files\Infeed700*** or a custom folder like ***C:\MyProjects\Infeed700***.

If the directory doesn't exist, you may need to create it.

### 2.1.2 Move and Extract the ZIP Folder:

Copy or move the ZIP folder to your chosen directory.

Right-click on the ZIP folder and select "Extract All..." (or use an extraction tool if you have one).

Choose the extraction location (if prompted) and confirm.

### 2.2.3 Navigate to the Extracted Folder:

Once unzipped, navigate to the extracted folder where you’ll find the necessary files to proceed with the installation or setup.

# 3. Installing Python:

Navigate to the directory where the **Infeed700Plus** files are located, find the folder named ***python\_offline\_installer***, and inside, locate the Python ***3.12.5*** offline installer (***python-3.12.5-amd64***). Double-click the installer and follow the steps to complete the installation.