Research

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## Problem Domain

SEPA (Single Euro Payment Area) is an EU initiative to harmonise cashless payments between member countries (Chen, 2018). While the SEPA system was first introduced in 1999 it only replaced individual national payment systems in 2011. The system was extended in 2017 to accept payments up to €15,000 Euros.

From 1st February 2014 all national Direct Debit and Credit Transfer processes must be replaced by SEPA-compliant equivalents.

## Aims

SEPA payments are generated electronically by presenting a properly formatted file to a payments system.

The project will aim to provide a solution for accounting staff to generate SEPA transaction files for presentation to a payments system.

## Scope – Iteration 1

The following functionality was included in Iteration 1 of the Project

|  |  |  |
| --- | --- | --- |
| Item | Details | Status |
| Import Vendor Data | Develop script to Access a Navision Financials Database  Generate test criteria to export Vendor table data  Populate a Vendor class in the SEPA Application | Test data successfully exported  Final criteria for record inclusion to be agreed |
| Import Invoice Data | Develop script to Access a Navision Financials Database  Generate test criteria to export Invoice table data  Populate an Invoice class in the SEPA Application | Test data successfully exported  Final criteria for record inclusion to be agreed |
| Import Invoice Detail Data | Develop script to Access a Navision Financials Database  Generate test criteria to export Invoice Detail table data  Populate an Invoice Detail class in the SEPA Application | Iteration 2 |
| SEPA Project | Create a Visual Studio Project  Create a GitHub account  Synchronise Project Updates | Completed |
| SEPA Project | Create basic Home Page and edit contents to include;  Home  About  Contact | Completed |
| SEPA Project | Create List View for Vendors to display details  Remove Create / Edit functions | Completed |
| SEPA Project | Create CRUD view for Invoices to allow test data to be amended in development phase | Completed  To be amended in Iteration 2 to supress Create / Edit |
| SEPA Project | Create List view to amend a series of invoices per page  The final system will require the user to update the status of invoices to allow processing | In Progress  Sample properties included to verify database updates are working  Further development to minimise user input  Validation routines required |
| SEPA Project | Create List view to group invoices by Vendor  Payments will be processed by Vendor | Sample properties included to verify database access working  Further development to include values  Validation routines required |
| SEPA Project | Create Search view to filter invoices by Vendor and Status | In Progress  Search criteria not working in Iteration 1 |
| TestXML Project | Console application to test the following functionality  Serialiser  XML File creation | In Progress  To be tested in isolation and included in SEPA project |

## Summary

The main scope of Iteration 1 was to integrate the SEPA project with an existing System.

The scripts developed will be incorporated into the SEPA Project as Procedures to make them available

The CRUD operations validate that classes are being updated correctly

The view operations provide a visual check of the classes and properties. These views will be developed in Iteration 2 to generate output activity