Project Proposal

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## Overview

This proposal has been submitted for approval to complete the project requirements of the Higher Diploma in Computing course.

## Problem Domain

The project relates to extending the functionality of an existing Financial Accounting system to automate the management of payments to vendors.

The current system requires an accounting clerk to generate payment lists for approval by management and to handle approved payments individually as follows;

The clerk reviews outstanding invoices and provides a spreadsheet of invoices for payment based on certain criteria;

* The cash amount available to fund payments
* The age of the transaction
* A vendor category field to prioritise payments to certain vendors

Management review the payment list and indicate which transactions are approved

The clerk completes the payment process using the updated list as follows;

* The transaction details are recalled using the Financial system – Purchase Ledger module and the Currency and Amount are validated
* The clerk accesses a separate Online Banking System and creates a payment transaction for the vendor. This must be approved using a one-off code generated on a mobile device using a Banking Online App for each transaction
* The clerk records details of the payment
* The clerk enters a separate payment transaction in the Purchase Ledger

This process is inefficient as the clerk must access a transaction multiple times to complete the process

The approval process is manual relying on the clerk to provide transaction details for approval based on their knowledge of the process

## Proposed Solution

An ASP.NET MVC solution is proposed to automate the payment process and provide the following functionality.

1. Develop a secure menu based system to allow authorised staff access to functions linked to their role/responsibilities
2. Emulate an interface to the existing Financial System to extract candidate payments for review
3. Provide a payments approval interface for Management to authorise individual payments
4. Replace the existing sequential payment process with a batch-based process to generate properly formatted SEPA payment files for processing multiple transactions by an Online Banking System
5. SEPA payments must be separated into Euro and Non-Euro payment files
6. Create an Interface File to emulate payments to be posted directly to the Purchase Ledger
7. Develop a Reporting Module to provide appropriate reports for individual roles including;

* Payment file summary
* Total payments by period by currency
* Total payments by period by vendor
* Audit Reporting
  + Payment files created by clerk
  + Payment approvals by Manager

## Proposed Benefits

* Generate efficiencies in the payment process
* Improve reporting and audit functions
* Improve security and accountability