Portfolio of Evidence (PoE) Report

Introduction

The Contract Monthly Claim System (CMCS) is designed to streamline the submission and approval process for monthly claims by Independent Contractor (IC) lecturers. This system will provide an intuitive, user-friendly interface, simplifying the often complex and error-prone task of managing claims. This report outlines the design choices, database structure, and GUI layout for the prototype of the CMCS, developed as part of the PROG6212 module.

1. Documentation: Design Choices

The primary goal of the CMCS is to offer a seamless experience for lecturers, Program Coordinators, and Academic Managers. The system is designed using .NET Core, leveraging its robust framework for building scalable and maintainable web applications. The GUI will be implemented using the Model View Controller (MVC) architecture, which allows for a clear separation of concerns, making the application more modular and easier to maintain.

**Assumptions:**

* Lecturers are familiar with basic computer operations.
* The system will be used on desktops and laptops, so it will be optimized for these devices.
* All claims require approval by both a Programme Coordinator and an Academic Manager.

**Constraints:**

The system must adhere to the institution's data security policies.

The database must be designed to handle large volumes of data efficiently.

2. **UML Class Diagram for Databases**

The database for the CMCS will consist of several key classes:

Lecturer: Contains attributes like LecturerID, Name, Email, and HourlyRate.

Claim: Attributes include ClaimID, LecturerID (foreign key), HoursWorked, TotalAmount, SubmissionDate, Status, and ApprovalDate.

ProgrammeCoordinator: Attributes such as CoordinatorID, Name, and Email.

AcademicManager: Attributes include ManagerID, Name, and Email.

SupportingDocuments: This class will store documents related to each claim, with attributes like DocumentID, ClaimID (foreign key), DocumentPath, and UploadDate.

**Relationships:**

A Lecturer can have multiple Claims.

Each Claim is reviewed by one Programme Coordinator and one Academic Manager.

SupportingDocuments are associated with specific Claims.

Conclusion

This report outlines the foundational steps in developing the Contract Monthly Claim System. The prototype, including the UML class diagram, project plan, and GUI design, sets the stage for creating a fully functional system in the next phase. Through this process, students will gain hands-on experience in .NET GUI development, preparing them for real-world software development challenges.