### ST10437388 – Tazkeen Vella

**PROG6212** 

POE: Part 1

DUE: 9 September 2025

# Part 1 - Project Planning and Prototype Development

### 1. Documentation

The Contract Monthly Claim System (CMCS) is a .NET Core WPF-based application that will help independent Contractor (IC) lecturers submit and track their monthly claims. Program Coordinators and Academic Managers will be able to review and approve these claims.

#### Design Choice

- Database: The database will use tables for Lecturer, Claim, SupportingDocuments, Coordinator, and Manager. This makes it easier to link claims to lecturers and track down who verified or approved them.
- GUI Layout: The interface is designed to be simple. Lecturers have a "Submit Claim" screen, Coordinators have a "Verify Claim" screen, and Managers have an "Approve Claim" screen.
- Version Control: Github is used to track changes and commits, so progress can be reviewed step by step.

#### Assumption

- All lecturers have login access to the system.
- Each claim will be handled by one Program Coordinator and one Academic Manager.
- All users will have internet access when submitting and verifying claims.

#### Constraints

- At this stage, the system is only a prototype (non-functional).
- The project must be completed within a limited time (4-7 days).
- The application is designed for desktop/web use, not mobile devices.

#### Database Structure

#### Lecturer

- LecturerID (PK)
- FullName
- Email
- HourlyRate

#### Claim

- ClaimID (PK)
- LecturerID (FK)
- HoursWorked
- TotalAmount
- Status (Pending/Verified/Approved/Rejected)
- SubmissionDate

#### SupportingDocument

- DocumentID (PK)
- ClaimID (FK)
- FilePath
- UploadDate

#### ProgramCoordinator

- CoordinatorID (PK)
- FullName
- Email

### AcademicManager

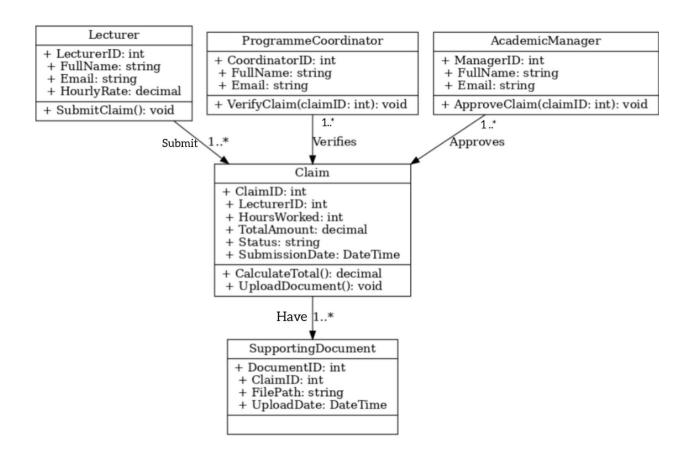
- ManagerID (PK)
- FullName
- Email

### Relationships

- Lecturer ---> Claim: One Lecturer can submit many Claims.
- Claim ---> SupportingDocument: One Claim can have many Supporting Documents.
- ProgrammeCoordinator ---> Claim: One Coordinator can verify many Claims.
- AcacdemicManager ---> Claim: One Manager can approve many Claims.

## 2.UML Class Diagram

The UML diagram below shows the relationships between lecturers, claims, supporting documents, coordinators, and managers.



# 3.Project Plan

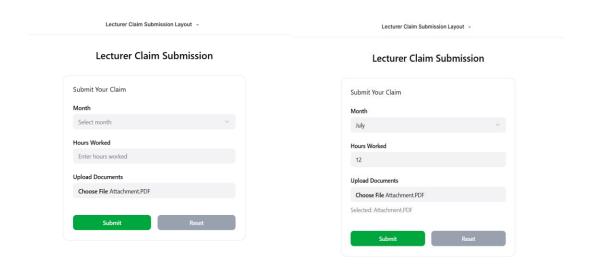
Task	Description	Timeline	Dependency
Project Setup	Create GitHub repo, set up Visual Studio project	Day 1	None
Documentation	Write system design, assumptions, and constraints	Day 1	Project Setup
UML Diagram	Add database UML diagram	Day 2	Documentation
GUI Prototype	Create WPF screen (non-functional)	Day 2-3	UML
Project Plan Finalization	Build and review project plan	Day 3	GUI Prototype
Final Submission	Submit Word doc + GitHub repo link	Day 4	All

This plan is realistic and achievable within the available timeframe.

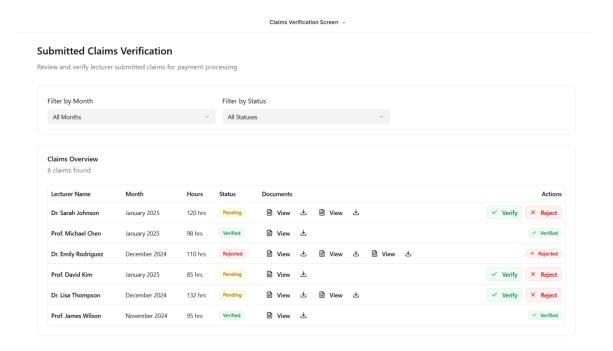
### **4.GUI Prototype**

The following mockup screens have been created:

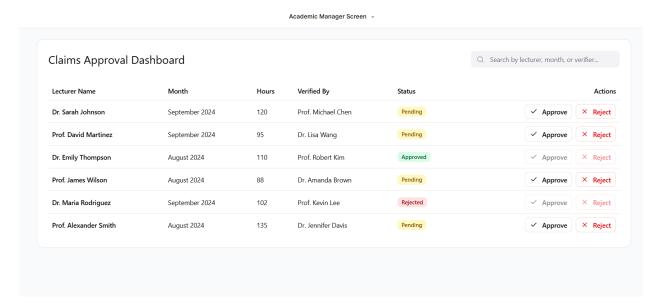
1. Lecturer Screen – Submit monthly claim, enter hours worked, upload documents.



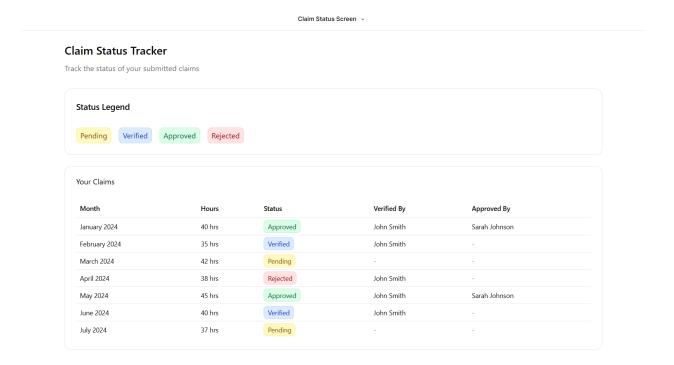
2. Program Coordinator Screen – View and verify submitted claims.



3. Academic Manager Screen – Approve claims after verification.



4. Claim Status Screen – Track progress (Pending, Verified, Approved, Rejected).



# **5.Version Control**

The project is linked to Github for version control.

- Repository name: CMCS\_Part1
- Five commits:
  - 1. Initial Commit project setup
  - 2. Added documentation draft
  - 3. Added UML diagram
  - 4. Added GUI prototype screens
  - 5. Finalized project plan and report

This ensures changes are tracked, and progress can be verified.

# **References**

- The Independent Institute of Education (IIE). (2025). *IIE Harvard Referencing guide*. The IIE.
- GitHub. (2025). *GitHub basics: Repositories and version control*. Available at: <a href="https://github.com">https://github.com</a> [Accessed 4 September 2025].