



ST10032544

PROG6212 POE PART 1



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Introduction

Purpose of the system

The Contract Monthly Claim System (CMCS) is a web-based system that allows independent Contractor (IC) lecturers to submit monthly payment claims, these are then verified, approved or unfortunately rejected by the Programme Coordinators and Academic Managers. The system bypasses all the unnecessary paperwork, provides more sped up approvals and allows you trace your payments.

Key Users are as follows:

- Lecturer – Submits Claims, provide the supporting documents and views the history and the claim status.
- Programme Coordinators – Reviews and verifies the claims.
- Academic Managers – This would be the final step for approval

Scope of Part 1

We are creating a user-friendly UI prototype in ASP.NET Core MVC that consists of pages for a Claim submission form, Listing, Detail, a document placeholder. This part does not require a server side.

Design Choices

Platform and Architecture

We will be using ASP.NET Core MVC (Razor Pages / MVC views) as it is the best suited for this POE. MVC ensures a clear separation of concerns, making the prototype easier to modify when adding the new functionalities. Razor view makes it easy to then create a decent UI mock-up.

Overall layout and navigation

Top of the navigation bar would be the navigation links. Which would be the Dashboard | Submit Claim | My Claims | Admin in the middle. User profile would be a dropdown on the right. At the bottom you would the footer.

There will be a content area which would then be centred which contains all the necessary functionalities such as forms, lists, etc.

Overall Structure

Core Pages (Controllers)

- Dashboard / HomeController – This is the landing are of the user.
- ClaimsController – This will have the various Claims such as SubmitClaim, MyClaims, ClaimDetails and ApproveClaim.
- AccountController – This will be the sign in page.
- AdminController – User-role management

Colour Scheme

Primary Colour – Blue as it provides a light tone and introduction to us and the website and it is the ideal colour for administrative systems.

Accent Colour – Orange

Background – A light shade of grey which provides a neutral background and doesn't strain the eye.

Text – Black as it is a professional colour and it makes the text easier to then read.

Approved – Green

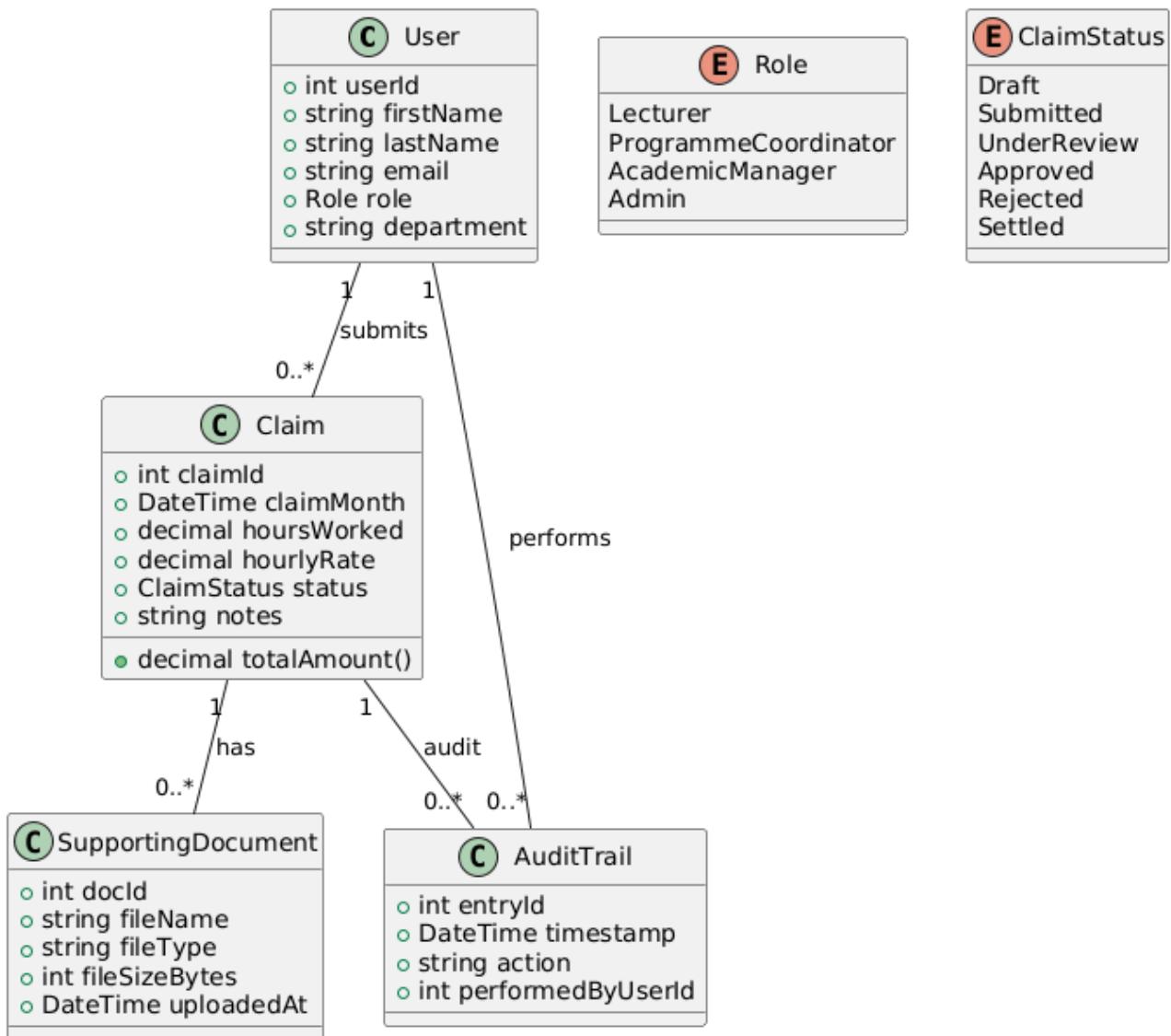
Pending – Amber/Orange

Error/Rejected – Red

Assumptions and constraints

1. Assumption: The claims provided by the lecturer are accurate. The verification of the data will not be done by the prototype.
2. Assumption: Modern browsers and stable internet connection and access to a device.
3. Assumption: The Role information provided is accurate.
4. Constraint: No database
5. Constraint: File size is limited

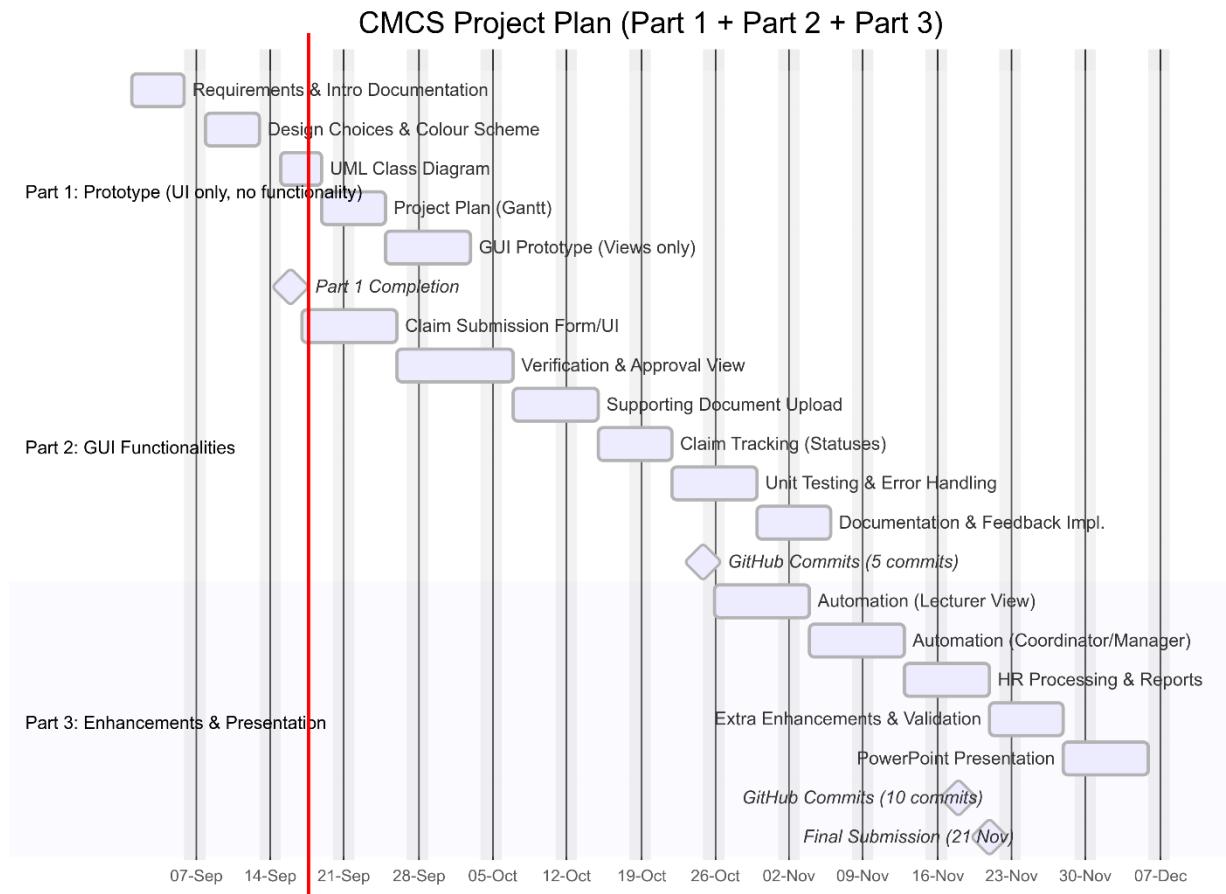
UML Class Diagram



Explanation

User Maps to the lecturer. The Role allows different permissions per role. The Claim holds the calculations. The SupportingDocument links the evidence files that allows for the data to be traced. An AuditTrail provides accountability as well as traceability for administrative procedures.

Project Plan



GUI/UI

The screenshot shows a web-based application for managing monthly claims. At the top, there's a navigation bar with links for 'CMCSPProject', 'Home', and 'Privacy'. The main content area has a title 'Contract Monthly Claim System' and a section titled 'Submit a Claim'. This section contains fields for 'Lecturer Name' (Jayden Prins), 'Hours Worked' (16), and 'Hourly Rate' (32). There's also a file upload field for 'Upload Document (.pdf, .doc, .xlsx)' which currently shows 'No file chosen'. Below these fields is a 'Submit Claim' button. To the right of the submission form is a 'Claim Status' summary table:

Claim Status	
Lecturer:	Jayden Prins
Hours Worked:	16
Hourly Rate:	32
Document:	?? "No document upload"
Status:	Pending

At the bottom of the page, there are two buttons: 'Verify Claim' (yellow) and 'Approve Claim' (green). The footer of the page includes a copyright notice: '© 2025 - CMCSPProject - [Privacy](#)'.

The purpose of this page was to keep it plain and simple and tidy. Here the lecturers can submit their claims and are allowed to add their supporting documents and as you can see the verify claim and approve claim is also available once the document is submitted as this is a prototype improvements will be made in the following parts. The navigation bar is on top with two options currently that will serve as links to move between various pages.

Github Repository

https://github.com/Dwayneprins19/PROG6212_POE_Part_1.git

References

- Smith, S., 1975. Overview of ASP.NET Core MVC. *Microsoft*, [online] 17 June 2024. Available at: <<https://learn.microsoft.com/en-us/aspnet/core/mvc/overview?view=aspnetcore-7.0>> [Accessed 17 September 2025]
- W3Schools, 1998. *HTML Tutorial*. [online] Available at: <<https://www.w3schools.com/html/default.asp>> [Accessed 17 September 2025].
- W3Schools, 1998. *CSS Tutorial*. [online] Available at: <<https://www.w3schools.com/css/default.asp>> [Accessed 17 September 2025].