

Prog 6212

Part 1

*17/09/2025
PoE Part 1:
Documentation
ST14038946*

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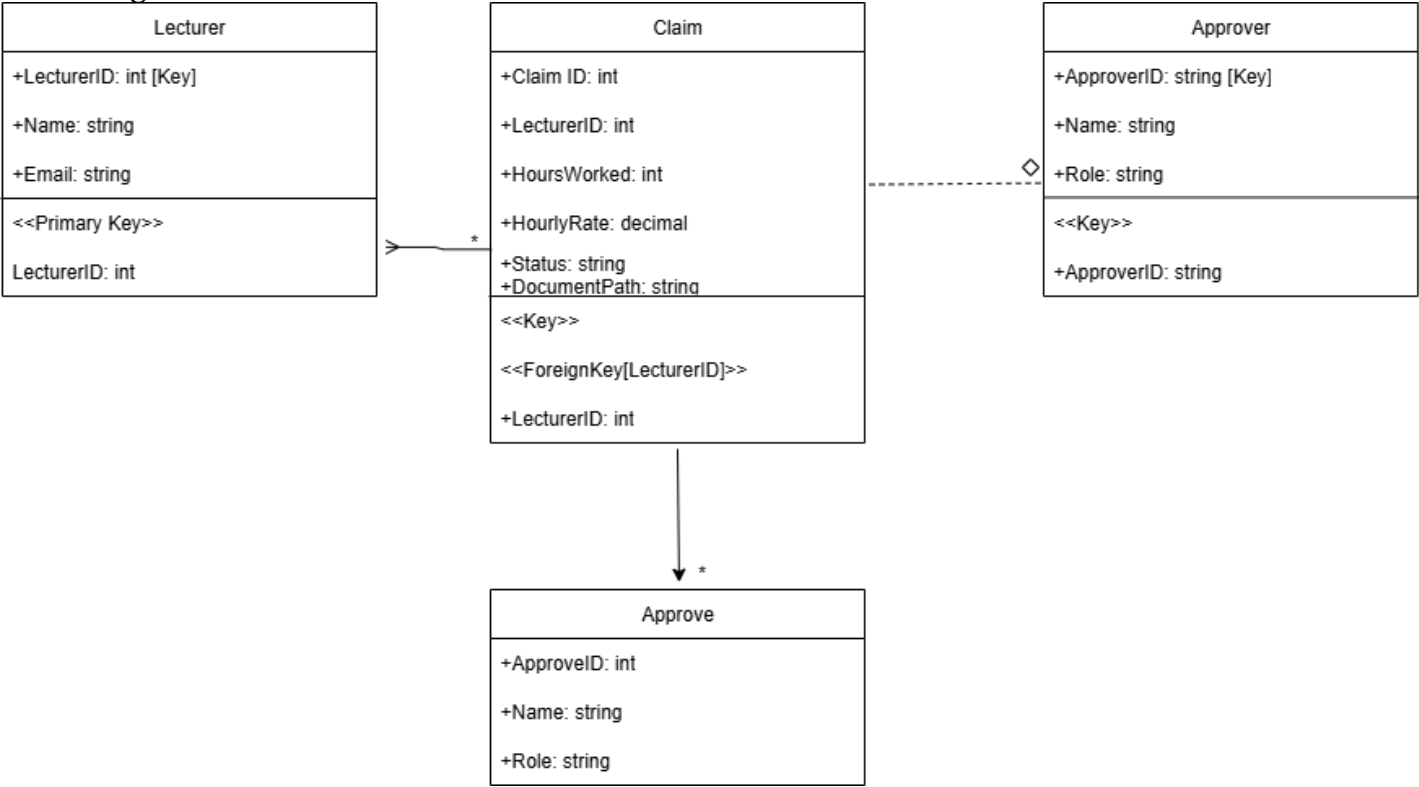
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CMCS Prototype

Documentation

Design Choices:

The CMCS Prototype application was created using an ASP.NET Core MVC for clean separation, ease of use reasons. Bootstrap 5 was also used in order to make the UI look more modern and make navigation feel responsive and effortless.

Layout:

The Layout is presented in such a way that it includes a top navigation bar and a Index landing page that has three action buttons:

- Submit lecturer claim
- Verify and Approve Claims
- Track Claim Status

Each view at this stage is non-functional just serving as a visual representation for what is to come in future iterations that include functionality. There is currently no backend logic as stated by the requirements of the POE for this part of it.

Project Assumptions and Constraints

- Firstly, the project has no functionality making it a front-end display at this point.
- All of the user roles are interacting via shared views (Lecturer, Programme Coordinator, Academic manager)
- Claims consist of hours worked, hourly rate and Supporting Documentation

UML Class Diagram Summary

The UML diagram includes three core classes:

Lecturer

- LecturerID: int [Key]
- Name: string
- Email: string

Claim

- ClaimID: int [Key]
- LecturerID: int [ForeignKey]
- HoursWorked: int
- HourlyRate: decimal
- Status: string
- DocumentPath: string

Approver

- ApproverID: int [Key]
- Name: string
- Role: string

Relationships:

- One Lecturer can submit many Claims.
- Each Claim is verified by one Approver.

GUI Design (ASP.NET MVC)

The GUI consists of four views:

- Home/Index: Welcome page with navigation buttons.
- LecturerClaim: Form for submitting hours and uploading documents.
- CoordinatorApproval: Table view for verifying and approving claims.
- ClaimStatus: List view showing claim progress (Approved, Pending, Rejected).

All views use Bootstrap 5 for layout and styling. Buttons are large, accessible, and clearly labeled to guide user interaction.

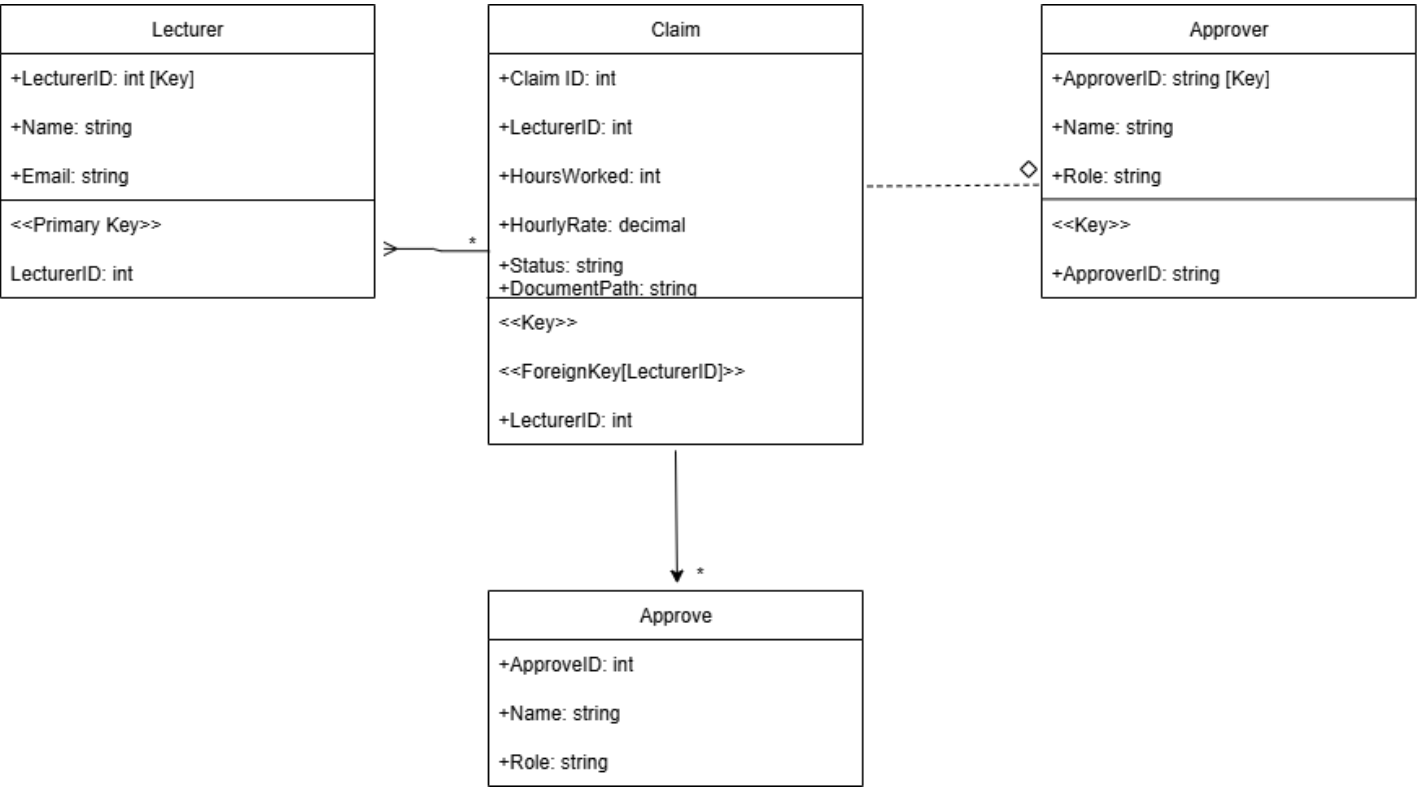
Version Control

The GitHub repository includes five commits:

- Initial project setup with routing and layout.
- Home/Index view with Bootstrap buttons.
- LecturerClaim view with form elements.
- CoordinatorApproval and ClaimStatus views.
- Final routing and layout cleanup.

Each commit includes a descriptive message to track progress and changes.

UML Diagram:



CMCS Project Plan

Date	Task
22-Aug	Project Start - Reviewed the POE requirements and scope
26-Aug	Planning & Design - Outlines roles, core functionality & features
30-Aug	UML Diagram Drafting - Designed UML Diagram structure & relationships & Entities
04-Sep	GUI Planning - Submitted GUI Draft to Lecturer as ICE Task (1st Commit)
15 Sept-17 Spet	Project Refining - Re designed the assignment to better fit the PoE requirements (2nd - 4th Commit)
17-Sep	Documentation & Submitting - Completed documentation and pushed final code. (5th Commit)

GitHub Repository Link:

<https://github.com/VCSTDN2024/prog6212-part1-SikhumbuzoNgwane.git>