

CONTRACT MONTHLY CLAIM SYSTEM

Prog6212 POE Part 1



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VARSITY COLLEGE
ST10437993

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Documentation

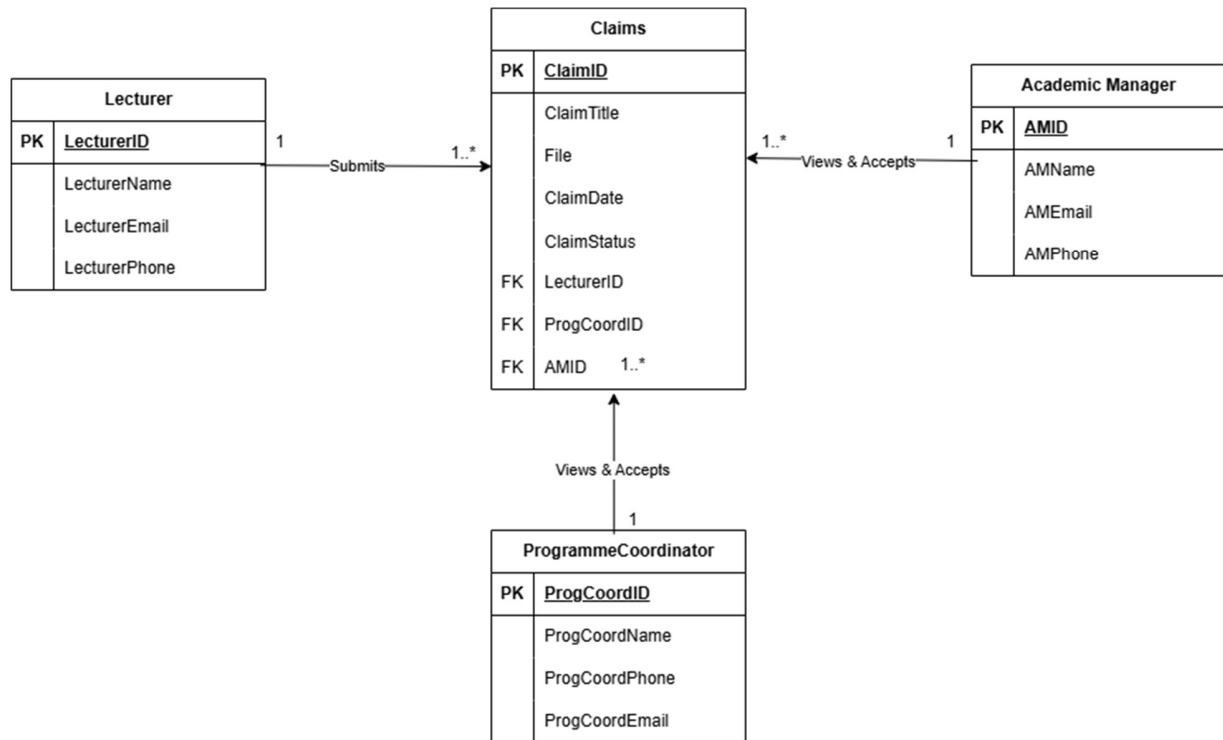
This is the documentation for the design choices, database structure and GUI layout for the Contract Monthly Claims System (CMCS). Assumptions made for this article are that you are already logged into the system, that rates and policies are already predetermined, that all data will be when functionality is completed.

In the initial development of the database structure concluded that the database would have four entities being *Lecturer*, *Claims*, *Programme Coordinator*, *Academic Manager* and each entity model will have their own attributes. The relation goes from one Lecturer to many claims and many claims to one Academic Manager or one Programme Coordinator as shown in UML Image. This will allow for the lecturer to make many claims and have a history of them to view whilst also showing the Academic Managers and Programme Coordinator can view many claims to approve them or reject them. Foreign Keys for Lecturer, Academic Manager and Programme Coordinator are present in the claims entity to show relation.

The design choices made for this system layout is a blue navigation bar at the top of the page and beige coloured background for the body of the view. I made this the default design look for the shared layout of all pages and views in the system as the blue navigation bar pops out and eye-catching whilst beige is not hurtful on the eyes making this an ideal colour since this will require admins to constantly scan the system view of submitted claims.

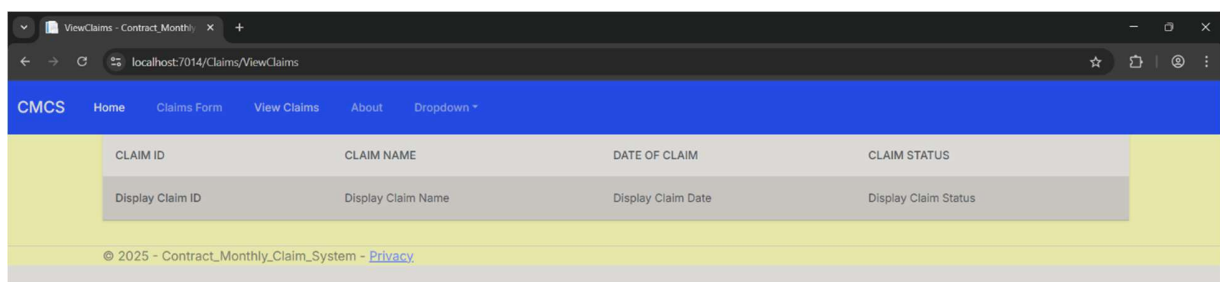
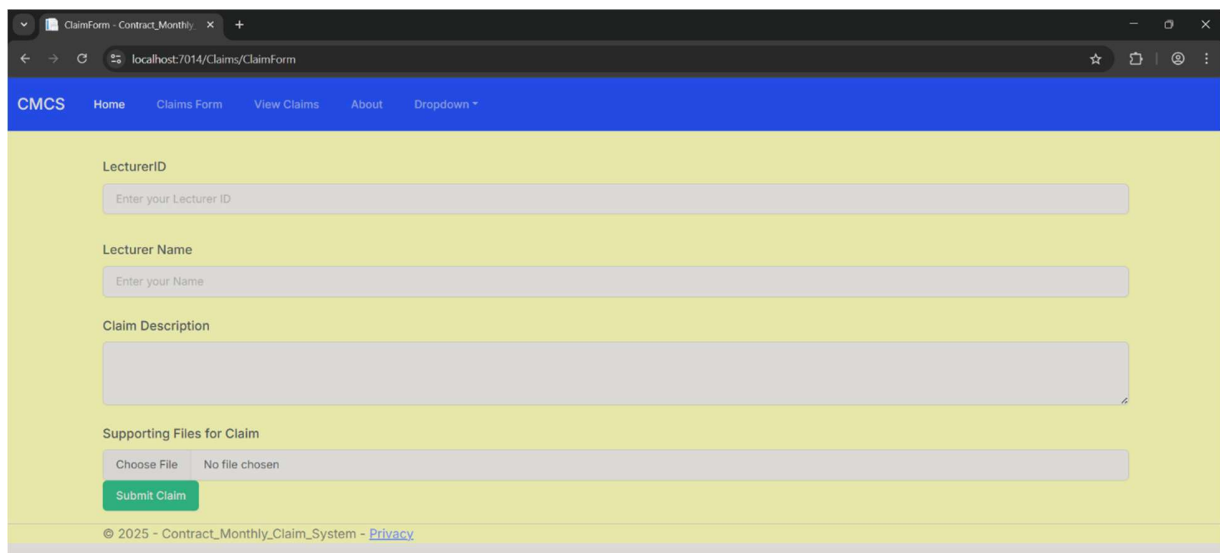
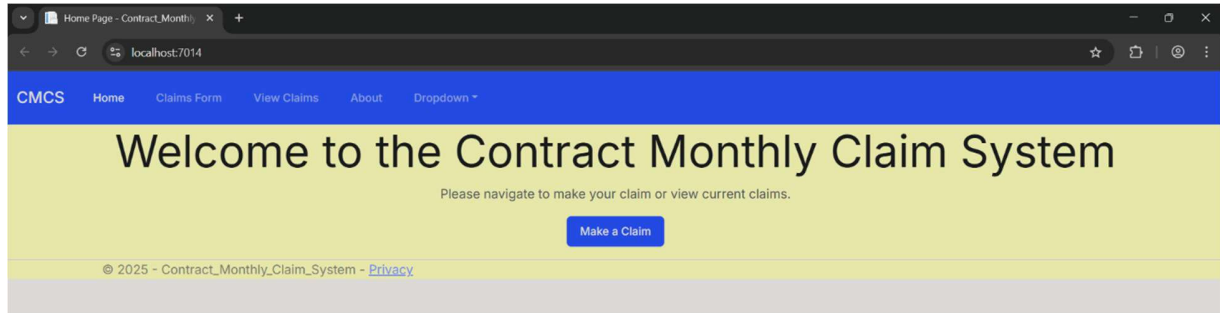
As shown is provided GUI images the design for the system shows the format of the claims forms interface and the fields for data entry and where they display. The preliminary View Claims GUI was done with a table format to show a quick summary of claims tabulated that will allow for lecturer to interact with them and be displayed as an easy to view interface that is easy to understand. The Lecturer Claims is a full summary of the claim for the lecturer to view and give all information of the claim. The dashboard is the view for the admin roles in the system to see all claims in full and send feedback on claim statuses. The index home page is the simple welcome to the system page for all users of the system and will be a navigation hub for the system.

UML Diagram

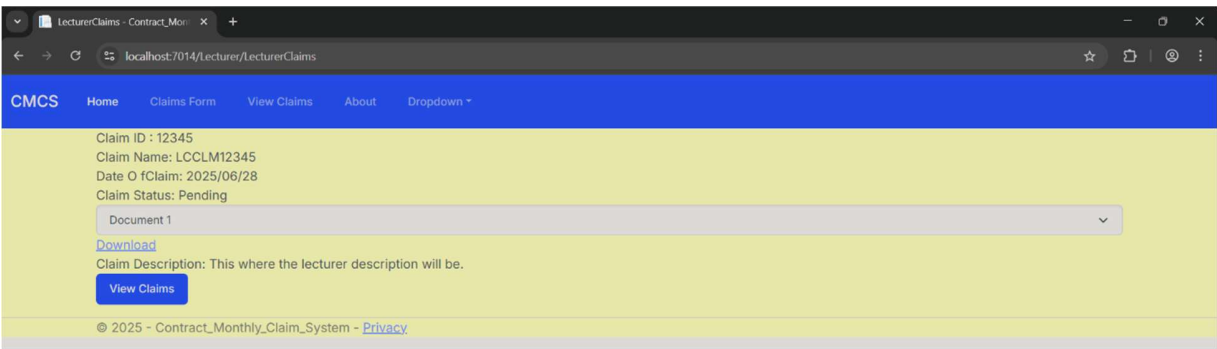
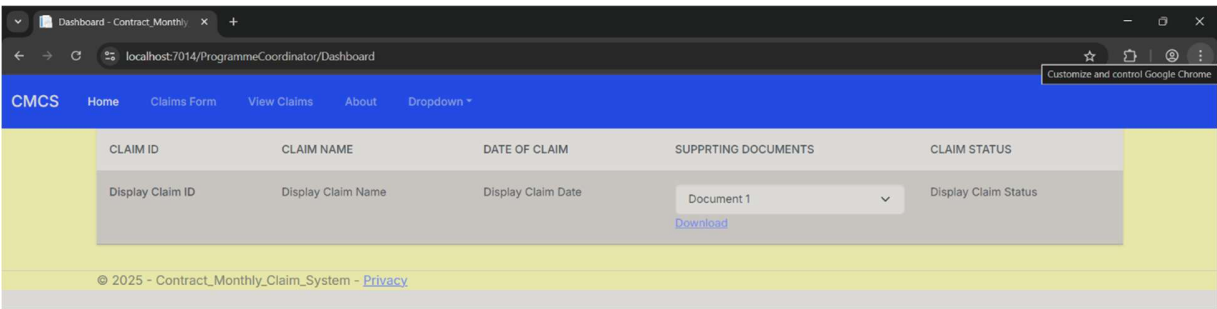


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GUI Frameworks



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Project Plan

1. Project Overview

The Contract Monthly Claim System will streamline the process of submitting and approving monthly claims for Independent Contractor lecturers. The system ensures transparency, accountability, and automation in claim management, supporting roles such as **Lecturer, Programme Coordinator, Academic Manager, and HR.**

2. Objectives

- Provide lecturers with a secure and easy way to submit claims and upload supporting documents.
- Enable Programme Coordinators and Academic Managers to review, approve, or reject claims efficiently.
- Introduce automation for calculations, approvals, and reporting to reduce manual errors.
- Improve transparency by allowing all stakeholders to track claim statuses.

3. Assumption

- Users are digitally literate.
- Organization provides hosting and .NET runtime environment.
- Claims align with predefined rates and policies.
- Claims are either made once a month or approved once month.

4. Scope

- Lecturer: Submit claim, upload supporting documents, track status.
- Coordinator/Manager: Approve/reject claims, provide comments.

5. Deliverables

- Prototype systems and GUI.

- Full system on MVC.

6. Tasks

1. Initiation & Planning

- Define requirements
- Draft assumptions & constraints
- Create UML class diagram
- Develop GUI wireframes

2. Design & Prototype

- Database schema design
- Frontend mock-ups (Lecturer, Coordinator, Manager views)
- Project documentation

3. Development

- Lecturers claim submission form
- Document upload functionality
- Approval dashboard (Coordinator/Manager)
- Claim status tracking

4. Testing & Feedback

- Unit testing
- Error handling mechanisms
- Lecturer feedback integration

7. Timeline (9 Weeks)

- **Week 1–2:** Planning, UML, GUI prototype
- **Week 3–6:** Development of prototype features

- **Week 7–8:** Automation & enhancements
- **Week 9:** Final testing & presentation

8. Dependencies

- GUI design depends on finalized UML & DB schema.
- Claim submission must be complete before implementing approvals.
- Approvals and uploads must be ready before claim status tracking.

9. Success Criteria

- Functional claim submission and approval process.
- Automated calculations and error-free workflows.
- Transparent status tracking and reliable reporting.

Conclusion

This conclude the design of the database framework and GUI for the Contract Monthly Claim System and covers the project plan for the development of the system and state the scope of the project, the deliverables and what is considered the criteria for success of the project.