

PROG6212 PART 1

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Design choices, structure and layout

The following Contract Monthly Claims system is designed in such a way that it looks professional and is easy to navigate whilst not compromising on usability of the sites various features.

From the project brief it was clear that there would have to be some kind of way to determine who is able to make claims and who can approve these claims, therefore it made the most sense for the GUI to be split into two different sections, that being a lecture dashboard and a coordinator dashboard. To navigate to these two sections of the web page the user is prompted with a login page where they will login as either a lecturer or an academic coordinator.

Each dashboard has the following pages that can be navigated to:

Lecture Dashboard

- Submit a Claim form
- Upload Documents page
- View the status of claims menu

Academic Coordinator Dashboard:

- Manage Claims form
- View approved claims page

Each Dashboard makes use of a different colour scheme that can help users determine whether they are on the correct page depending on if they are academic coordinators or lecturers.

For ease of accessibility, when a user is logged in, they can access any of the features that they would find on the dashboard by using the navigation bar at the top of the screen. Allowing multiple different ways of navigating the claims system will ensure that users have a better experience whilst using the site.

The structure of the database ensures that all entities are connected to each other and that both academic coordinators and lectures inherit from the default user class that will take the username and password. Additionally, the lecture class will be connected to the claims and upload classes allowing lectures to be associated with the claims that they have made. Academic coordinators will also be able to approve the claims that lectures have submitted.

Some constraints during the designing of this project included:

Role Assignment: The Claims system must be able to differentiate between a lecture and an academic coordinator

Navigational properties – Accessing the dashboard should be a straightforward process, bigger buttons and clear instructions will avoid user confusion.

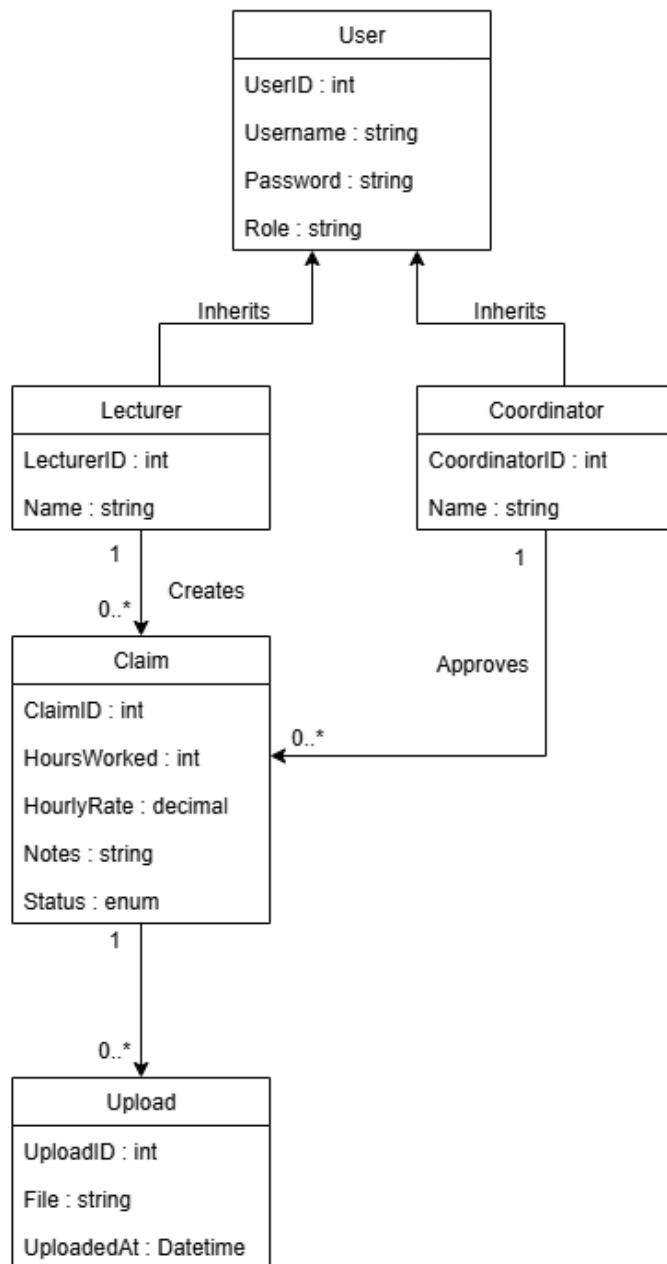
Database relationships: determining the relationship between the different entities such as how the user is connected to the claims/uploads and approvals that they make.

Overall it is understood that the following contract monthly claims system has taken into consideration the necessary design features that make a webpage easy to navigate and has understood the distinction between different users who will interact with the system.

Project Plan

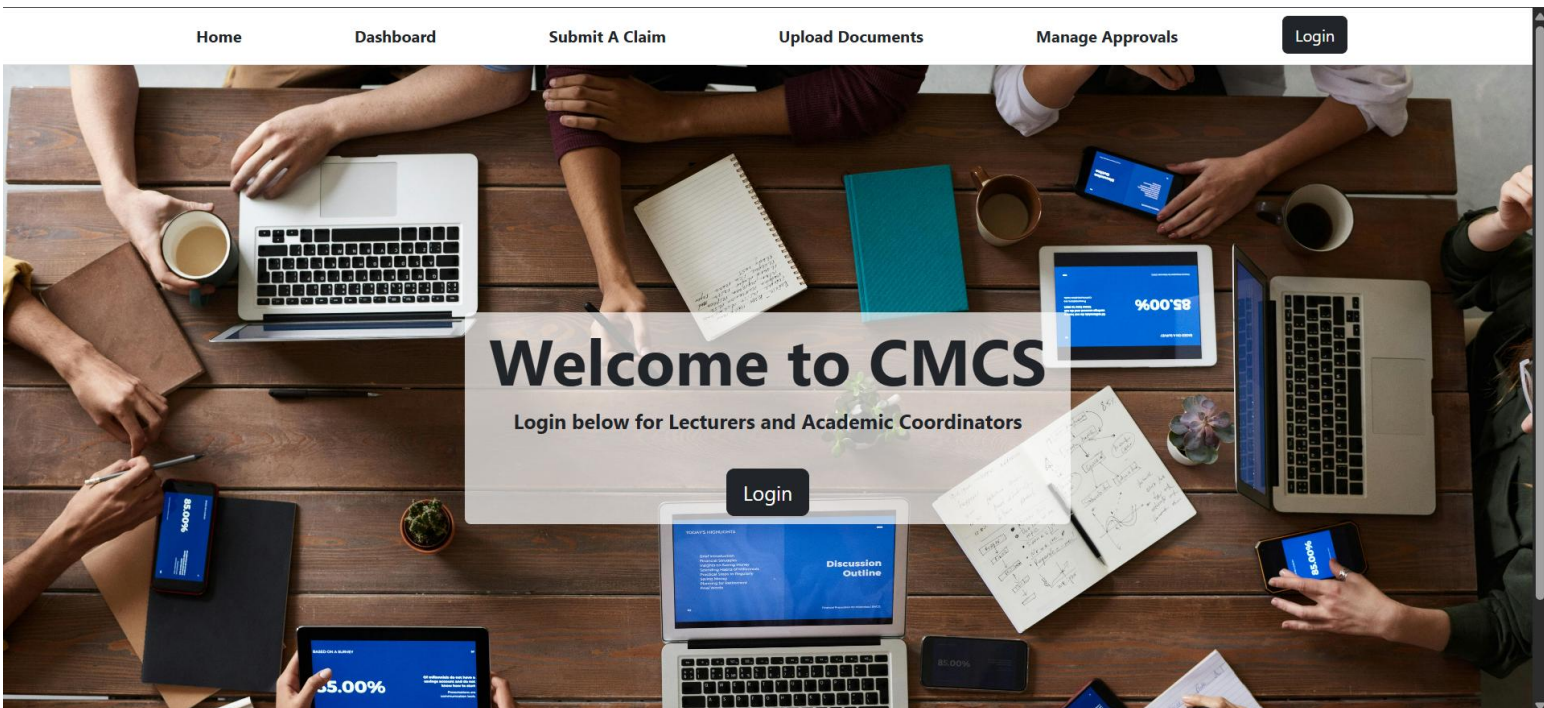
ID	Task Name	Duration	Dependencies	Timeline
1	Planning Phase	1 wk		Week 1
1.1	Determine the scope	3 days		Week 1
1.2	Assemble requirments	2 days	1.1	Week 1
2	System Design and Layout	1 wk	1.2	Week 2
2.1	Design UML class diagram and database structure	1 day		Week 2
2.2	Design wireframes, UI pages	4 days	2.1	Week 2
3	System Development	3 wks	2.2	Week 3-5
3.1	Create ASP.NET Core project and implement models	1 wk		Week 3
3.2	Develop controllers	1 wk	3.1	Week 4
3.3	Implement Views	1 wk	3.2	Week 5
4	Implement UI	2 wks	3.3	Week 6-7
4.1	Dashboard creation	1 wk		Week 6
4.2	Login,Claims,Upload and Manage pages integrated	1 wk	4.1	Week 7
5	Database implementation	1 wk	4.2	Week 8
5.1	Develop the Database	3 days		Week 8
5.2	Integrate the Database into ASP.Net Application	2 days	5.1	Week 8
6	System Testing and Deployment	1 wk	5.2	Week 9
6.1	Create unit tests(test login functionality,submission of documents,status updates)	3 days		Week 9
6.2	Deploy version 1 of the application	1 day	6.1	Week 9
6.3	View user feedback and implement fixes if necessary	1 day	6.2	Week 9

UML class diagram

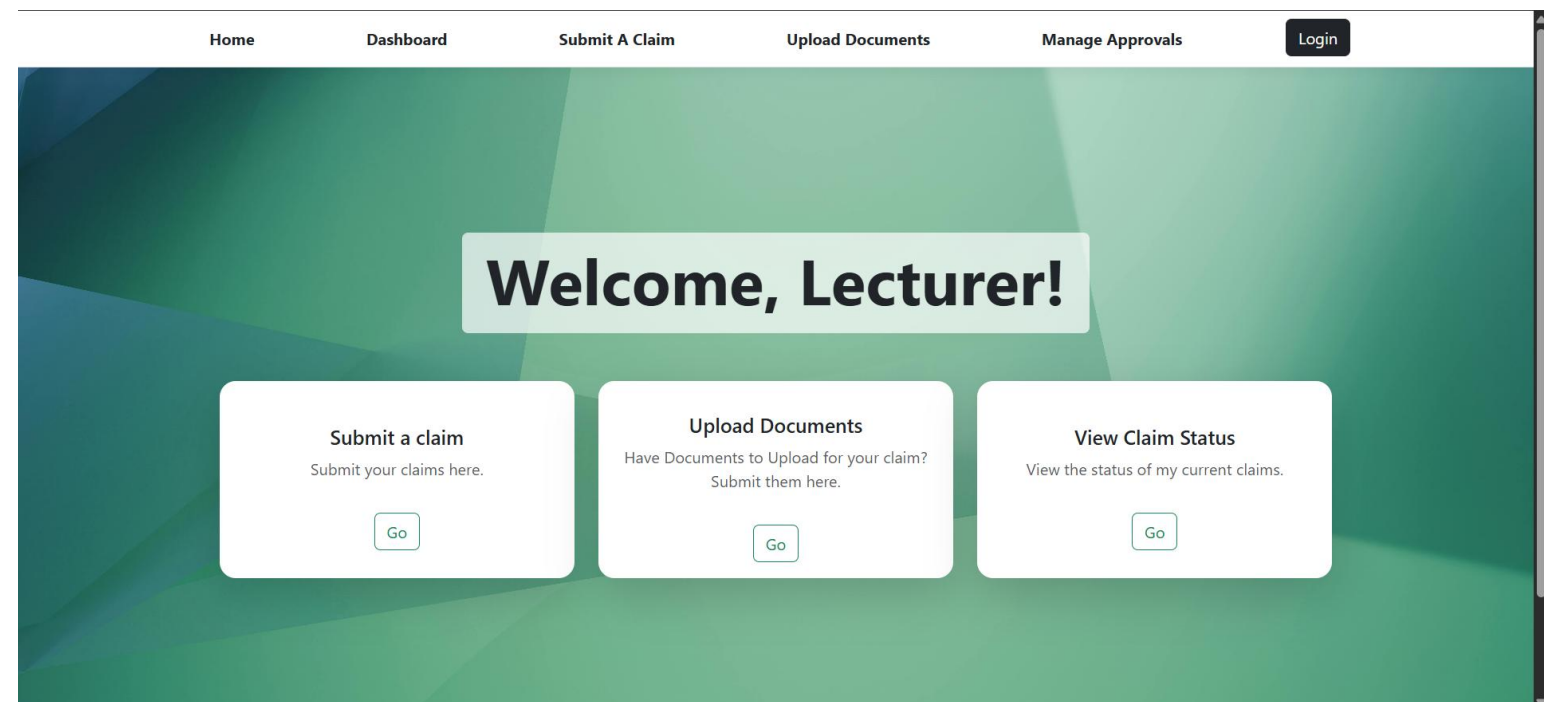


GUI design screenshots

Home Page



Lecturer Dashboard



Login page

[Home](#)[Dashboard](#)[Submit A Claim](#)[Upload Documents](#)[Manage Approvals](#)[Login](#)

Lecturer & Coordinator Login

Username

Password

Login

Submit a claim page

[Home](#)[Dashboard](#)[Submit A Claim](#)[Upload Documents](#)[Manage Approvals](#)[Login](#)

Submit Your Claim

HoursWorked

HourlyRate

Notes

Submit Claim

Instructions

Please fill out the form to submit your claim. Ensure all information is accurate before submitting.

- Enter the total hours that you have worked in the "Hours Worked"
- Provide your hourly rate in the "Hourly Rate" field.<
- Use the "Notes" section for any additional information regarding your claim.

Double check before submitting — claims can be submitted at any time.

Upload Documents Page

[Home](#)[Dashboard](#)[Submit A Claim](#)[Upload Documents](#)[Manage Approvals](#)[Login](#)

Upload Supporting Document

Submit Document

Upload File

Choose File No file chosen

Upload

Back to Dashboard

Instructions:

- Upload **supporting documents** related to your claim (e.g., proof of hours, receipts, etc.).
- Accepted formats: PDF, Word, Excel, JPG, PNG.
- Only one document per upload. You can upload multiple documents by submitting again.

View claim status

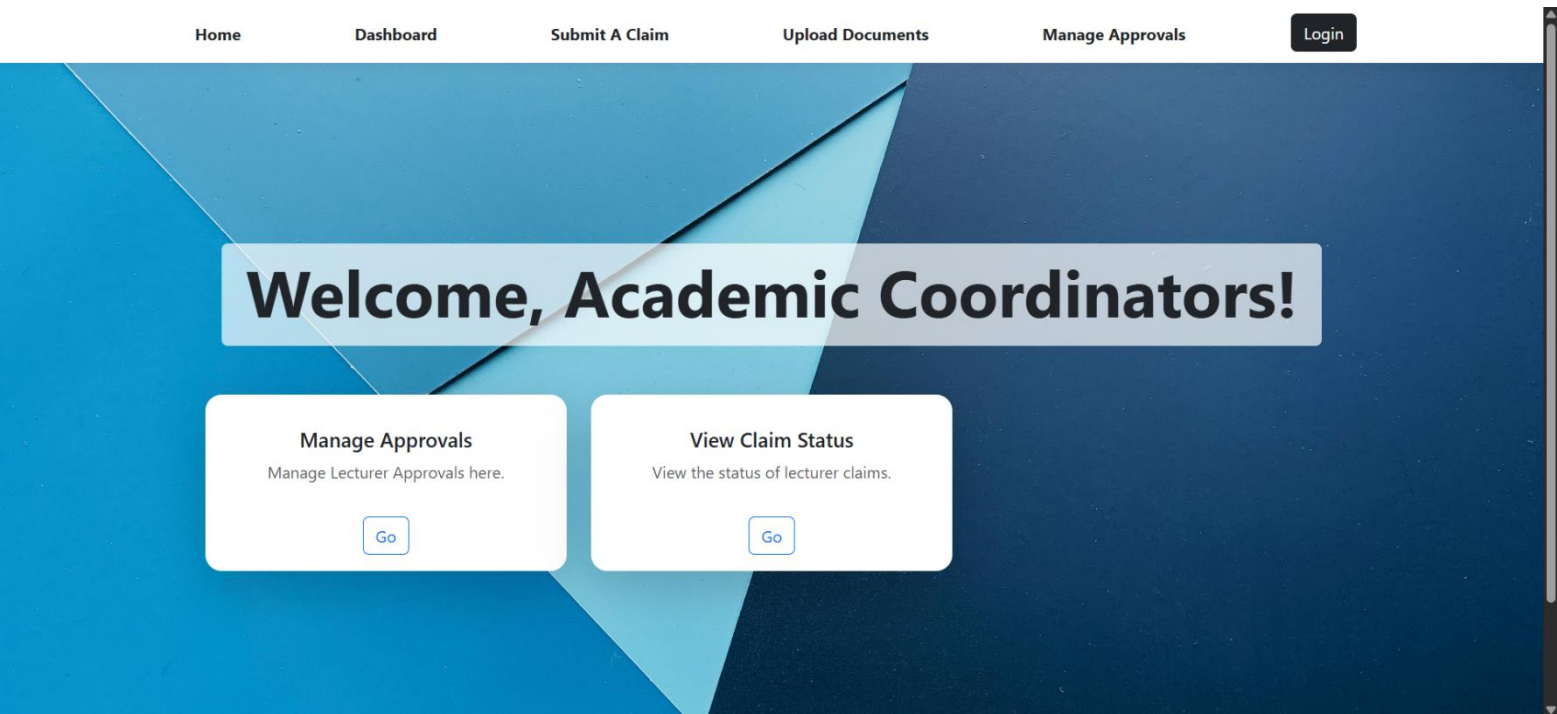
[Home](#)[Dashboard](#)[Submit A Claim](#)[Upload Documents](#)[Manage Approvals](#)[Login](#)

My Claim Status

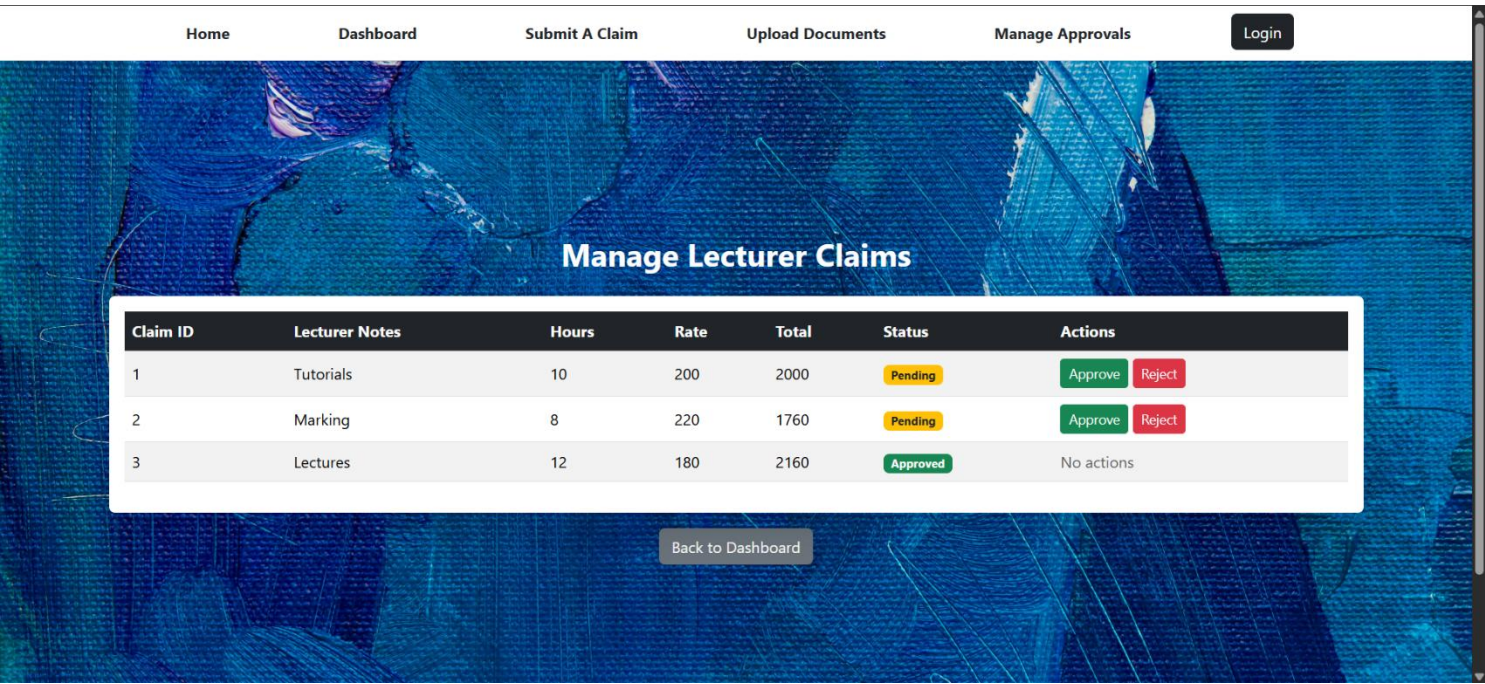
Claim ID	Hours Worked	Hourly Rate	Total	Notes	Date Submitted	Status
1	10	200	2000	Tutorials		Pending
2	8	220	1760	Marking		Approved
3	12	180	2160	Lectures		Paid

Back to Dashboard

Academic coordinators Dashboard



Manage Lecture claims page



View all lecture claims page

[Home](#)[Dashboard](#)[Submit A Claim](#)[Upload Documents](#)[Manage Approvals](#)[Login](#)

All Lecturer Claims

ID	Lecturer	Hours Worked	Hourly Rate	Notes	Status
1	Dr. Jackson	10	R200,00	Tutorials	Pending
2	Prof. Davids	8	R220,00	Marking	Approved
3	Dr. khumalo	12	R180,00	Lectures	Paid

GIT Hub Repository link

https://github.com/Jackson-Matthew/CMCS_ST10445830_PROG6212.git

Reference

- Gido, J., Clements, J.P., Baker, R., Harinarain, N. and Eresia-Eke, C., 2022. *Successful Project Management in South Africa*. 2nd ed. United Kingdom: Cengage Learning EMEA.
- K.Mrzyglod.,R Camden 2022. *Azure for Developers: Implement rich Azure PaaS ecosystems using containers, serverless services, and storage solutions*.2nd ed: Packt Publishing.