

# PROG SUMMATIVE POE

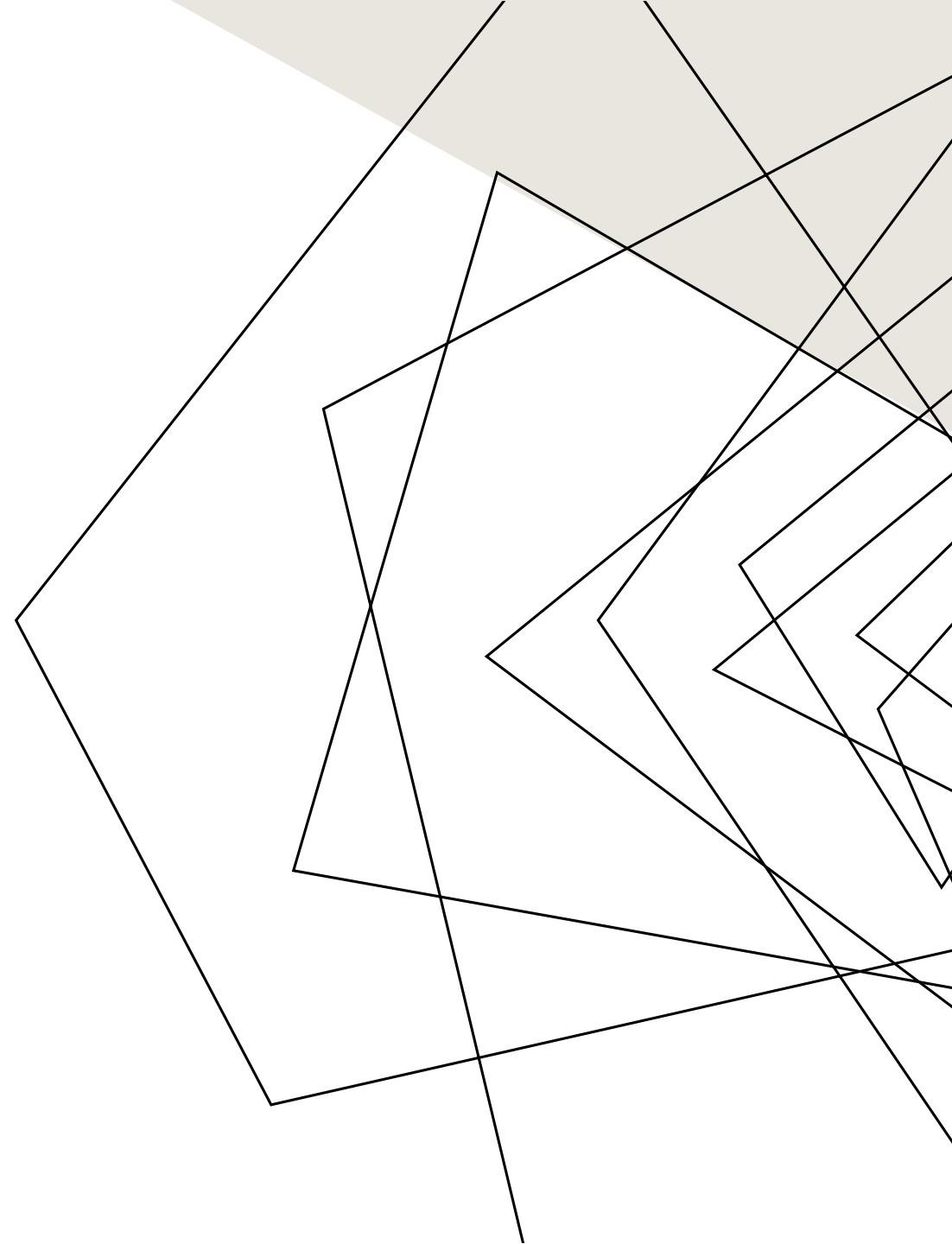
JOSHUA SUTHERLAND  
(ST10255930)

# GOAL OF FINAL POE

The Final Section of our POE is meant to combine API's and MVC in a seamless manner, ensuring full;

- Atomization
- Security Handling and
- User authorization/authentication.

Here is how I did just that.



# IDENTIFYING YOUR ROLE





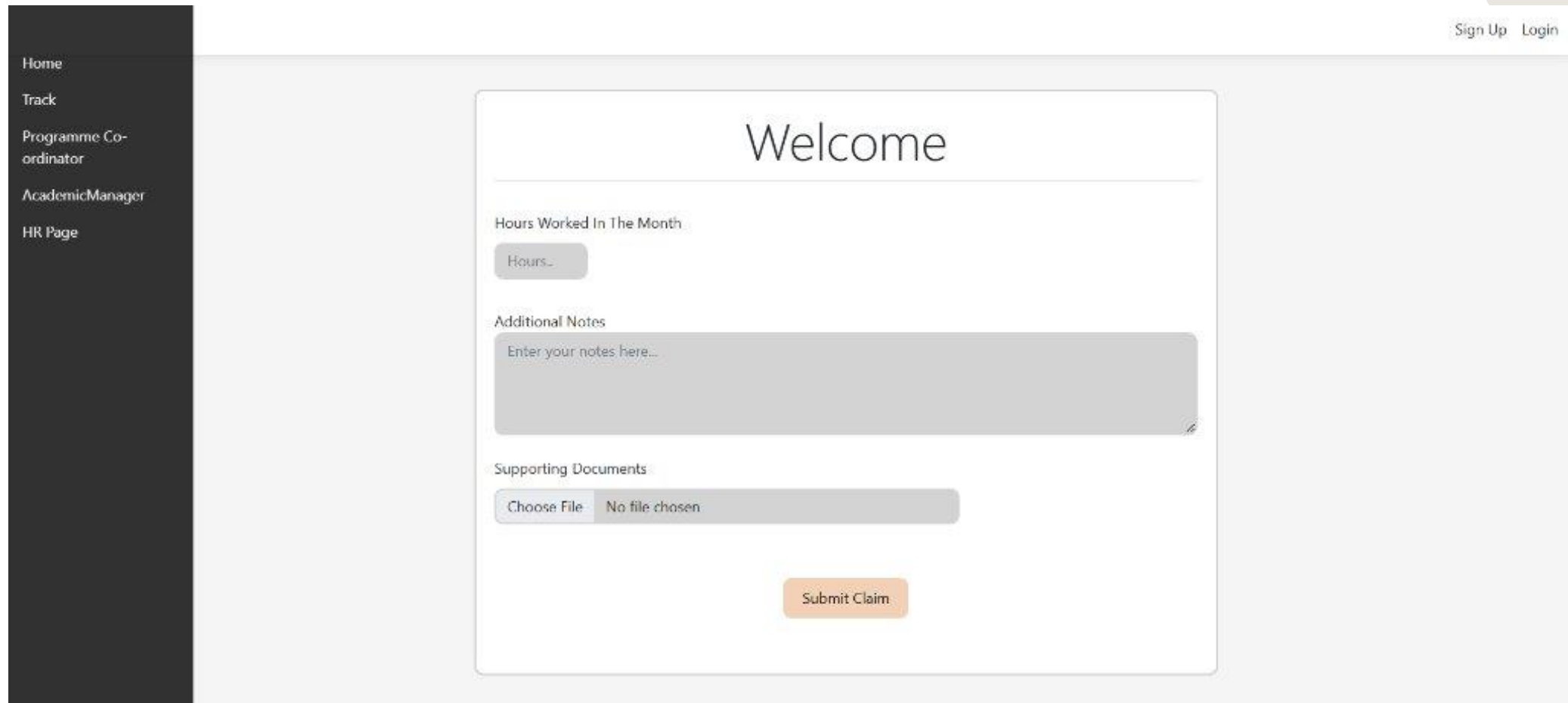
# WHO ARE YOU?

- The introduction of a Program Co-Ordinator and Academic Manager meant that identifying users and their roles in the system was at an increased importance.
- With the use of identities and tokens, Users are safely assigned their roles and are implemented reliably into the database.
- Specified Roles withhold certain sections of the website to be accessed by unauthorized users.

# CLAIMS

## FUNCTIONALITY AND IMPORTANCE

- The emphasis on claims was indicated in the beginning when stated that claims are meant to be easily accessible to the lecturer.
- Once a lecturer is logged in, they are taken straight to the claims page where they can enter their claim information.
- Error handling has been implemented to disapprove duplicate files and restrict specific files that can be uploaded by lecturers.



The screenshot displays a web application interface for submitting claims. On the left, a dark vertical sidebar contains navigation links: Home, Track, Programme Co-ordinator, AcademicManager, and HR Page. The top right corner features 'Sign Up' and 'Login' links. The main content area is titled 'Welcome' and contains three sections: 'Hours Worked In The Month' with a text input field labeled 'Hours...', 'Additional Notes' with a large text area labeled 'Enter your notes here...', and 'Supporting Documents' with a file upload button labeled 'Choose File' and a status indicator 'No file chosen'. A prominent orange 'Submit Claim' button is located at the bottom center of the form.

# CLAIM TRACKING

- Users can track their claims in real-time.
- When a Program Co-Ordinator updates a claim the claim status will be updated for the user.
- Users will also see how much they are expected to inherit from their claim.
- The system automatically calculates and generates an amount that the Lecturer will earn from the claim.

(This Automation is highlighted in the HR View)

Claim Tracker				
Claim ID	Upload Date	Approved Date	Status	Projected Earnings
8	2024-11-22	Pending	Pending	R 8800
9	2024-11-22	2024-11-22	Approved	R 16500
10	2024-04-01	2024-11-22	Approved	R 244
11	2024-04-03	2024-11-22	Approved	R 168
12	2024-04-07	2024-11-22	Approved	R 325
13	2024-04-10	2024-11-22	Approved	R 225
14	2024-04-12	2024-11-22	Rejected	R 248.5
20	2024-11-22	Pending	Pending	R 400



The background features a dark blue field with a grid of numbers in orange and white, resembling a digital display or data feed. The numbers are arranged in rows and columns, with some digits appearing larger or more prominent than others. In the upper right corner, there is a white geometric pattern consisting of several intersecting lines that form a series of triangles and polygons.

# PROGRAM CO- ORDINATOR

# FUNCTIONALITY & ROLE

## Pending Claims

Claim ID	Lecturer ID	Lecturer Name	Hours Worked	Rate	Upload Date	Documentation	Status	Actions
8	1	"Joshua Sutherland"	22	400.00	2024-11-22	<a href="#">Download</a>	<input type="text" value="Pending"/>	<a href="#">Update</a>
17	5	"Lesley Sutherland"	7	29.50	2024-04-06	<a href="#">Download</a>	<input type="text" value="Pending"/>	<a href="#">Update</a>
19	5	"Lesley Sutherland"	10	36.50	2024-04-11	<a href="#">Download</a>	<input type="text" value="Pending"/>	<a href="#">Update</a>
20	1	"Joshua Sutherland"	2	200.00	2024-11-22	<a href="#">Download</a>	<input type="text" value="Pending"/>	<a href="#">Update</a>

- The Program Co-ordinator is assigned the role of accepting and rejecting Lecturer claims.
- The Co-ordinator can update the status of claims.
- When a status is updated it is transferred to the Academic manager who oversees all approved and rejected lecturer claims.



The background of the image features silhouettes of graduates celebrating. Several black graduation caps are being tossed into the air, and hands are visible holding up rolled-up diplomas. The scene is set against a light blue sky. In the top left corner, there is a white geometric pattern consisting of overlapping lines forming a grid-like structure.

# ACADEMIC MANAGER

# FUNCTIONALITY & ROLE

- The Academic manager assists in overseeing processed claims.
- Academic managers can search specific lecturers and see their rejected and approved claims.
- This is an important position as they can roll back changes made to lecturer claims, and they can view all history for lecturer claims.

## Processed Claims

Search by Lecturer

Search

Reset

Claim ID	Lecturer ID	Lecturer Name	Hours Worked	Rate	Upload Date	Documentation	Status	Approved Date
9	1	"Joshua Sutherland"	33	500.00	2024-11-22	<div>Download</div>	Approved	2024-11-22
10	1	"Joshua Sutherland"	8	30.50	2024-04-01	<div>Download</div>	Approved	2024-11-22
11	1	"Joshua Sutherland"	6	28.00	2024-04-03	<div>Download</div>	Approved	2024-11-22
12	1	"Joshua Sutherland"	10	32.50	2024-04-07	<div>Download</div>	Approved	2024-11-22
13	1	"Joshua Sutherland"	9	25.00	2024-04-10	<div>Download</div>	Approved	2024-11-22
14	1	"Joshua Sutherland"	7	35.50	2024-04-12	<div>Download</div>	Rejected	2024-11-22
15	5	"Lesley Sutherland"	9	27.00	2024-04-02	<div>Download</div>	Approved	2024-11-22
16	5	"Lesley Sutherland"	8	33.00	2024-04-04	<div>Download</div>	Approved	2024-11-22
18	5	"Lesley Sutherland"	5	40.00	2024-04-09	<div>Download</div>	Approved	2024-11-22

HR POSITION



# PURPOSE:

- HR plays the important role in managing lecturer invoices.
- HR users will have a view of all lecturers, their total amounts due to them and a document that contains a summary of all their claims, along with each rate p/hour.
- HR is essential in managing payments and amounts owed, this is a highly important position and needs to be secure. This I have made use of tokenization and Identity.

## Invoices

Invoice Number	Lecturer ID	Lecturer Name	Invoice Date	Total Amount	Invoice Document
2	1	"Joshua Sutherland"	2024-11-22	\$17,462.00	<a href="#">Download Invoice</a>
3	5	"Lesley Sutherland"	2024-11-22	\$707.00	<a href="#">Download Invoice</a>

# LECTURER FEEDBACK ADDRESSED:



When a user wanted to select a file, all file types were allowed, I created restrictions on which file types are available to users.



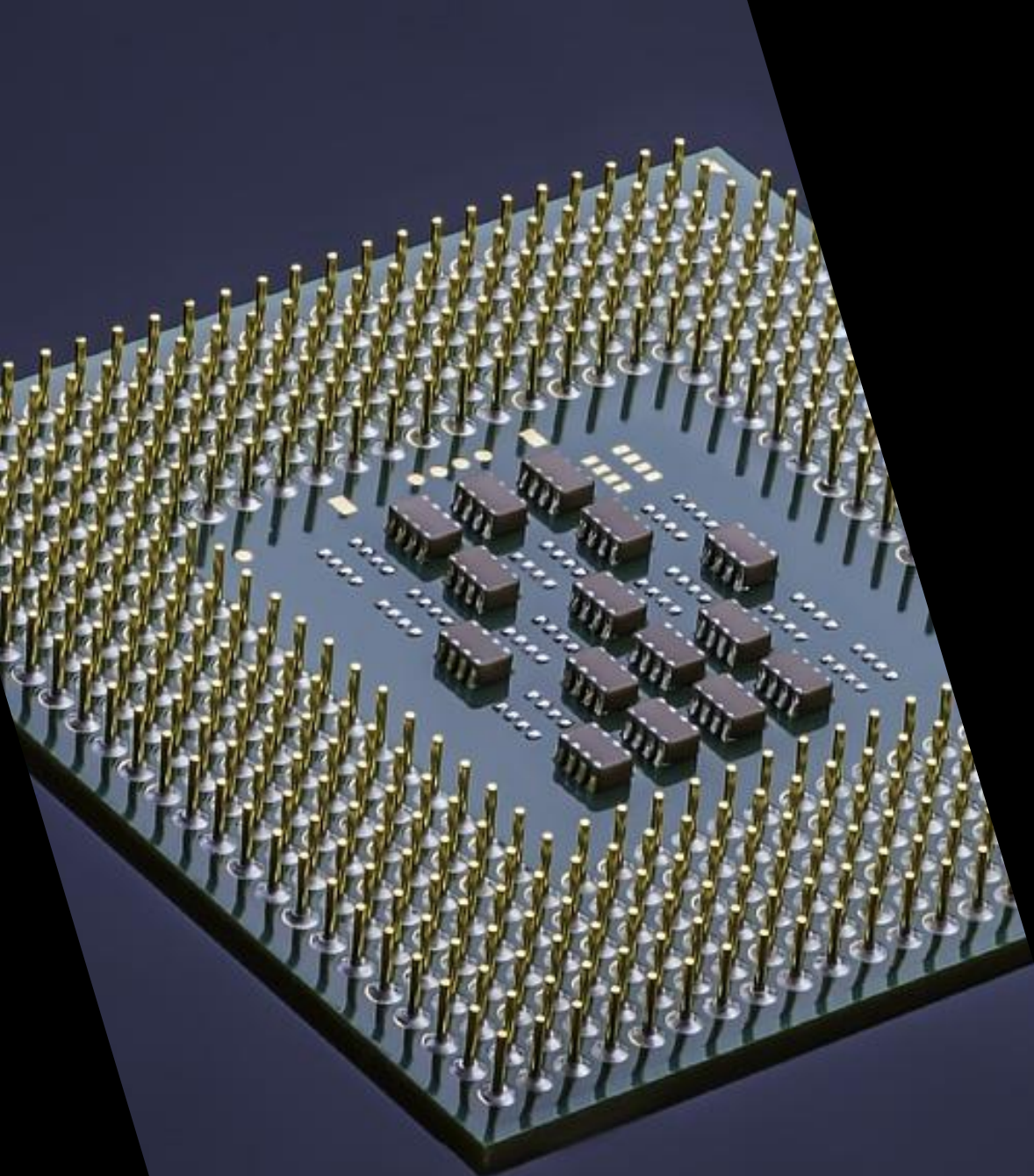
When a user wants to submit the same file more than once, I have a check that will scan current documents and tell the user they cannot upload the same file.



Changed color scheme to not look so harsh.



Made more space with the navigation bar

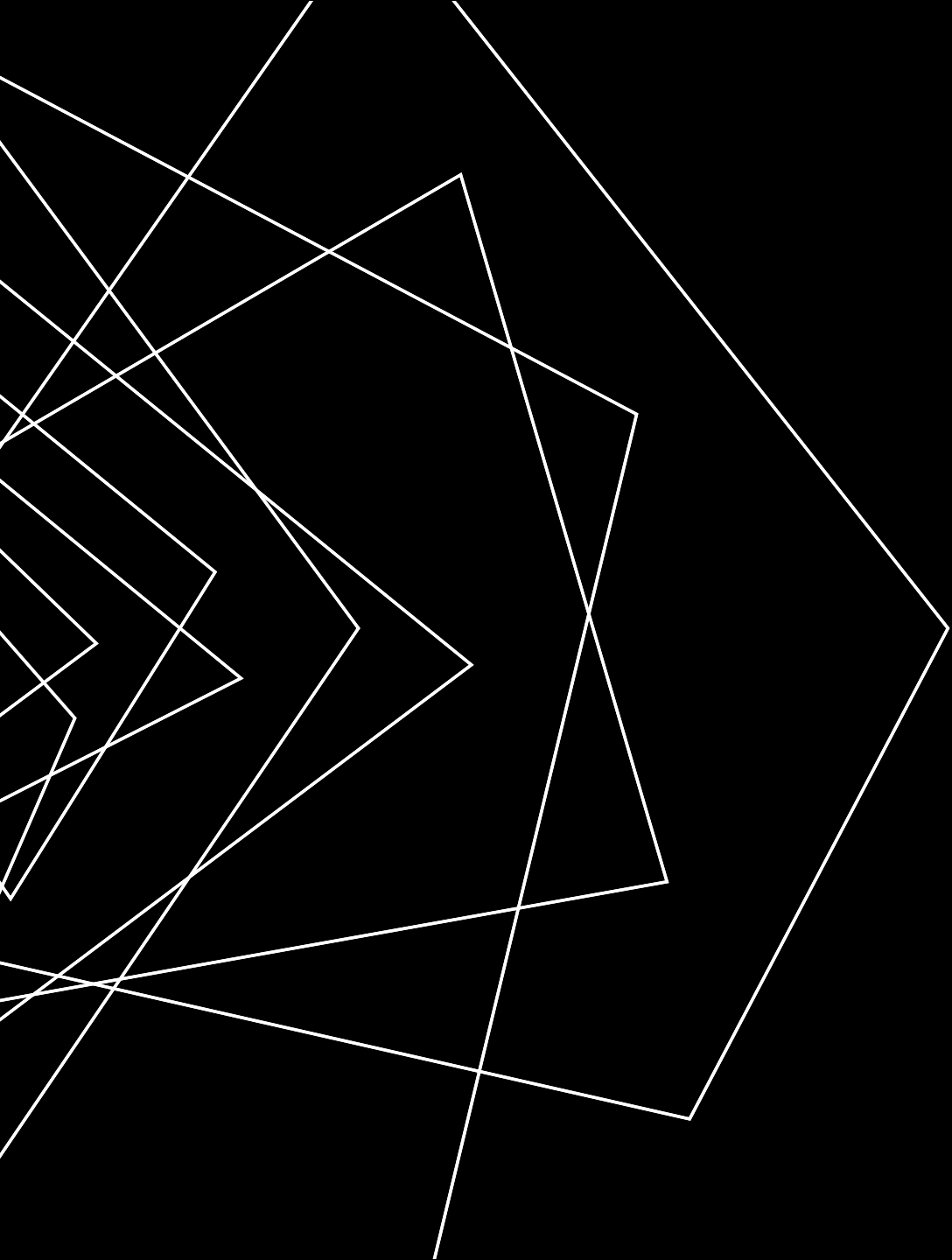


# LINKS:

GitHub Link:

<https://github.com/VCNMB/vcnmb-prog6212-2024-poe-ST10255930.git>





# THANK YOU

Student: Joshua Sutherland (ST10255930)

Module: Prog 6212

Course: BCA2

Lecturers: Reece Wanvig & Courteney Young