

MODULE NAME:	MODULE CODE:
PROGRAMMING 2B	PROG6212

ASSESSMENT TYPE: POE (PAPER)

TOTAL MARK ALLOCATION: 300 MARKS

TOTAL HOURS: A minimum of 45 HOURS is suggested to complete this assessment

By submitting this assignment, you acknowledge that you have read and understood all the rules as per the terms in the registration contract, in particular the assignment and assessment rules in The IIE Assessment Strategy and Policy (IIE009), the intellectual integrity and plagiarism rules in the Intellectual Integrity and Property Rights Policy (IIE023), as well as any rules and regulations published in the student portal.

INSTRUCTIONS:

- No material may be copied from original sources, even if referenced correctly, unless it is a direct quote indicated with quotation marks. No more than 10% of the assignment may consist of direct quotes.
- 2. Please ensure that you submit your assignment through SafeAssign. Please make sure you attach a similarity report to your POE if you are required to submit a hard-copy of your PoE.
- 3. Make a copy of your assignment before handing it in.
- 4. Assignments must be typed unless otherwise specified.
- 5. Begin each section on a new page.
- 6. Follow all instructions on the PoE cover sheet.
- 7. This is an individual assignment.

Referencing Rubric

Providing evidence based on valid and referenced academic sources is a fundamental educational principle and the cornerstone of high-quality academic work. Hence, The IIE considers it essential to develop the referencing skills of our students in our commitment to achieve high academic standards. Part of achieving these high standards is referencing in a way that is consistent, technically correct and congruent. This is not plagiarism, which is handled differently.

Poor quality formatting in your referencing will result in a penalty of according to the following guidelines a maximum of ten percent being deducted from the overall percentage. Please note, however, that evidence of plagiarism in the form of copied or uncited work (not referenced), absent reference lists, or exceptionally poor referencing, may result in action being taken in accordance with The IIE's Intellectual Integrity Policy (0023).

Markers are required to provide feedback to students by indicating (circling/underlining) the information that best describes the student's work.

Minor technical referencing errors: 5% deduction from the overall percentage. – the student's work contains five or more errors listed in the minor errors column in the table below.

Major technical referencing errors: 10% deduction from the overall percentage. – the student's work contains five or more errors listed in the major errors column in the table below.

If both minor and major errors are indicated, then 10% only (and not 5% or 15%) is deducted from the overall percentage. The examples provided below are not exhaustive but are provided to illustrate the error.

accordance with The IIE's Intellectual Integrity Policy (0023).							
Required: Technically correct referencing style	Minor errors in technical correctness of referencing style Deduct 5% from overall percentage. Example: if the response receives 70%, deduct 5%. The final mark is 65%.	Major errors in technical correctness of referencing style Deduct 10% from the overall percentage. Example: if the response receives 70%, deduct 10%. The final mark is 60%.					
Consistency	Minor inconsistencies.	Major inconsistencies.					
The same referencing format has been used for all in-text references and in the bibliography/reference list.	 The referencing style is generally consistent, but there are one or two changes in the format of in-text referencing and/or in the bibliography. For example, page numbers for direct quotes (in-text) have been provided for one source, but not in another instance. Two book chapters (bibliography) have been referenced in the bibliography in two different formats. 	 Poor and inconsistent referencing style used intext and/or in the bibliography/ reference list. Multiple formats for the same type of referencing have been used. For example, the format for direct quotes (intext) and/or book chapters (bibliography/ reference list) is different across multiple instances. 					
Technical correctness	Generally, technically correct with some	Technically incorrect.					
Referencing format is technically correct throughout the submission. The correct referencing format for the discipline has been used, i.e., either APA, OR Harvard OR Law Position of the reference: a reference is directly associated with every concept or idea. For example, quotation marks, page numbers, years, etc. are applied correctly, sources in the bibliography/reference list	 minor errors. The correct referencing format has been consistently used, but there are one or two errors. Concepts and ideas are typically referenced, but a reference is missing from one small section of the work. Position of the references: references are only given at the beginning or end of every paragraph. For example, the student has incorrectly presented direct quotes (in-text) and/or book chapters (bibliography/reference list). 	 The referencing format is incorrect. Concepts and ideas are typically referenced, but a reference is missing from small sections of the work. Position of the references: references are only given at the beginning or end of large sections of work. For example, incorrect author information is provided, no year of publication is provided, quotation marks and/or page numbers for direct quotes missing, page numbers are provided for paraphrased material, the incorrect punctuation is used (in-text); the bibliography/reference list is not in alphabetical order, the incorrect format for a book chapter/journal article is used, information is missing e.g. no place of publication had been provided (bibliography); repeated sources on 					
are correctly presented.	Constally congruence between the in toyt	the reference list.					
Congruence between in-text referencing and bibliography/ reference list • All sources are accurately reflected and are all accurately included in the bibliography/ reference list.	Generally, congruence between the in-text referencing and the bibliography/ reference list with one or two errors. There is largely a match between the sources presented in-text and the bibliography. For example, a source appears in the text, but not in the bibliography/ reference list or vice versa.	 A lack of congruence between the in-text referencing and the bibliography. No relationship/several incongruencies between the in-text referencing and the bibliography/reference list. For example, sources are included in-text, but not in the bibliography and vice versa, a link, rather than the actual reference is provided in the bibliography. 					
In summary: the recording of references is accurate and complete.	In summary, at least 80% of the sources are correctly reflected and included in a reference list.	In summary, at least 60% of the sources are incorrectly reflected and/or not included in reference list.					

Overall Feedback about the consistency, technical correctness and congruence between in-text referencing and bibliography:

Welcome to the Portfolio of Evidence (PoE) PROG6212, where you will embark on a transformative journey of developing a practical .NET web-based application known as the **Contract Monthly Claim System (CMCS)**. This system serves as a crucial tool for streamlining the often-complex process of submitting and approving monthly claims for **Independent Contractor (IC)** lecturers, offering a glimpse into real-world scenarios encountered in professional settings. As a student in this module, you will dive deep into the development of .NET GUI development, leveraging the power of C# to develop an interactive user interface and enhance the overall user experience for ICs. Throughout your learning journey, you will be guided step-by-step in designing and implementing the Monthly Claim System, honing your skills through hands-on practice and theoretical understanding.

Within the Contract Monthly Claim System, the role of a lecturer extends beyond merely submitting claims; it involves complex calculations based on hours worked and corresponding hourly rates. These claims undergo thorough scrutiny by both the Programme Coordinator and the Academic Manager, highlighting the importance of accuracy and accountability in administrative processes. Furthermore, the system's integration of features will go beyond basic claim submissions, providing a seamless platform for uploading essential supporting documents. By facilitating such functionalities, the system aims to not only increase efficiency but also enhance user satisfaction and mitigate potential errors.

As you progress through this module, you will delve into the different aspects of .NET GUI development, from designing visually appealing interfaces to implementing robust functionality. Each Task or Assessment part will serve as a pivotal milestone, offering opportunities to apply theoretical knowledge to practical scenarios. Through iterative learning and hands-on projects, you will gradually master the art of GUI development using C# .NET Core, gaining valuable insights into industry best practices and methodologies.

The Contract Monthly Claim System stands as a testament to innovation in administrative processes, offering a glimpse into the future of streamlined claim management. With its user-centric design and seamless integration of features, the system aims to revolutionise the way claims are processed and approved. Automating repetitious tasks and providing intuitive interfaces empower both lecturers and administrators to focus on more strategic initiatives, ultimately enhancing organisational efficiency and productivity.

In conclusion, this POE not only equips you with the technical skills needed for GUI development but also instils a deeper understanding of the underlying principles driving modern software applications. Through hands-on experience and guided instruction, you will emerge as a proficient C# developer, ready to tackle real-world challenges in the dynamic landscape of software development.

Portfolio Of Evidence (POE) Objective:

The objective of this Portfolio of Evidence (POE) is to assess your understanding and practical application of C# GUI development in a real-world scenario. You will be developing a .NET web-based application called the Contract Monthly Claim System (CMCS), which is designed to streamline the process of submitting and approving monthly claims for independent contractor lecturers. This POE is divided into three parts, each focusing on different aspects of the system development.

Introduction

Complete the parts below to provide all the information and the prototype required for the POE.

Tip: Read the rubrics at the end of this document for the details of how your work will be marked.

Part 1 — Project Planning and Prototype Development

(Marks: 100)

At the end of this specific part, students should be able to:

- LU1: Advanced C# Programming
- LU2: Programming with the .NET Assemblies

In this part, you are required to design a prototype of the Contract Monthly Claim System. Your prototype should include a **Unified Modelling Language (UML) class diagram** for databases, a **project plan**, and a Windows Presentation Form or Model View Controller (MVC) using .NET Core for GUI User Interface (UI). *Please note that the application should not be functional at this stage*.

1. Documentation:

- Provide a detailed explanation of your design choices, the structure of your database, and the layout of your GUI.
- Include any assumptions or constraints you have considered.

This will help us understand your thought process and the rationale behind your design decisions.

2. UML Class Diagram

for Databases:

Design a UML class diagram that accurately represents the data requirements of the Contract
Monthly Claim System. Your diagram should include all necessary classes, attributes, and
relationships and show how they are represented in a database.

3. Project Plan:

• Develop a project plan that outlines the tasks, dependencies, and timeline for developing the prototype. Your plan should be realistic and achievable.

4. GUI IU:

 Design the user interface for the Contract Monthly Claim System using either MVC or Windows presentation Forms (.NET Core). Your design should be user-friendly and intuitive.

The GUI at this stage should only be a front-end prototype with the following options:

- Lecturers can submit their claims at any time with a click of a button.
- Programme Coordinators and Academic Managers can easily verify and approve the claims.
- Lecturers can upload supporting documents for their claims. The claim status can be tracked transparently until it is settled.
- The system always provides consistent and reliable information.
- 5. Version Control: Regularly commit and push changes to the GitHub repository (5 Times) with clear and descriptive commit messages?

Remember, the GUI at this stage should not be functional. It should only provide a visual representation of the proposed system. The functionality will be added in the subsequent parts of the POE.

Submission Guidelines:

- Submit a report that includes all your documentation, the UML class diagram, the project plan, and the GUI design. The report should be 400 to 500 words long, well-structured, clear, and concise.
- Format your report as a Microsoft Word document.
- Version Control: Push your source code and your Documentation to GitHub. Repository to be provided.

(Marks: 100)

Part 2 — Implement a Prototype Web Application

At the end of this specific part, students should be able to:

- LU1: Advanced C# Programming
- LU2: Programming with the .NET Assemblies
- LU3: Files and Data
- LU4: Windows Presentation Foundation

Instructions

Building on the prototype from Part 1, you will now add functionalities to the GUI UI .NET Core web application. The application should be able to perform the following features:

- 1. Lecturers can submit their claims at any time with a click of a button:
- Implement this feature in your application.
 - Consider the layout, colour scheme, and user flow to make this process as straightforward as possible.
- You should design a simple and intuitive form for lecturers to input their claims.
- The form should include fields for the hours worked, hourly rate, and any additional notes.
- The 'Submit' button should be prominently displayed and easy to click.
- 2. Programme Coordinators and Academic Managers can easily verify and approve the claims:
- Design a separate view for coordinators and managers.
 - This view should display all pending claims and provide options to verify or reject them.
 - Each claim should be displayed in a clear and organised manner, showing all the necessary details for verification.
 - o There should be 'Approve' and 'Reject' buttons for each claim.
- 3. Lecturers can upload supporting documents for their claims:
- Add a feature that allows lecturers to upload documents.
 - Ensure that the uploaded files are securely stored and linked to the corresponding claim.
 - You should provide an 'Upload' button in the claim submission form.
 - Once a file is uploaded, its name should be displayed on the form.

- Consider implementing a file size limit and restricting the file types to common formats like .pdf, .docx, and .xlsx.
- 4. The claim status can be tracked transparently until it is settled:
- Implement a tracking system that updates the status of each claim as it moves through the approval process.
- You could represent the status as a simple text label (e.g., 'Pending', 'Approved', 'Rejected')
 or as a progress bar.
- The status should be updated in real-time whenever a coordinator or manager approves or rejects a claim.
- 5. The system always provides consistent and reliable information:
- Unit Testing: Write unit tests for the code. These tests should cover all the key functionalities of the system.
- Ensure that your application handles errors gracefully and displays accurate information.
 Implement error handling mechanisms to catch and handle exceptions. Display meaningful error messages to the user when something goes wrong.
- 6. Version Control: Regularly commit and push changes to the GitHub repository (5 Times) with clear and descriptive commit messages?

Remember, the goal of this part 2 is to demonstrate your ability to add functionality to a GUI application. Focus on implementing the features as described, but also feel free to add any additional features that you think would improve the application.

Submission Guidelines:

- Add Lecturer Feedback in a Word document and show how you implemented the recommendations.
- Version Control: Push your source code and your Documentation to GitHub. Repository to be provided.

(Marks: 100)

POE — Automation of Web Application

At the end of this specific part, students should be able to:

- LU1: Advanced C# Programming
- LU2: Programming with the .NET Assemblies
- LU3: Files and Data
- LU4: Windows Presentation Foundation
- LU5: ASP.NET Core Web Development

For the final part of the POE, you will enhance the functionality of the application developed in Part 2 and prepare a PowerPoint presentation to showcase your work. This presentation should provide a comprehensive overview of the Contract Monthly Claim System, highlighting its features, functionality, and benefits.

1. Application Enhancement (Automation): Implement additional features or improvements to enhance the overall functionality and user experience of the system.

Automation of Features:

Lecturer view: Automate the claim submission process, allowing lecturers to input their hours worked and hourly rate and submit claims easily.

- Automation: Implement an auto-calculation feature to compute the final payment based on the hours worked and hourly rate inputted by the lecturer. Additionally, integrate validation checks to ensure accurate data entry.
- Tools in C# ASP.NET: Build the web application using ASP.NET MVC or ASP.NET Core MVC.
 Leverage JavaScript libraries like jQuery for client-side calculations and validations. The Entity
 Framework can be used to interact with the database to store and retrieve claim data.

Programme Coordinator and Academic Manager view: Automate claim verification and approval processes, enabling efficient review and processing of submitted claims.

 Automation: Develop an automated system to check submitted claims against predefined criteria such as hours worked, hourly rates, and any other relevant policies. Implement approval workflows to streamline the verification and approval process. Tools in C# ASP.NET: Use ASP.NET Identity for user authentication and authorisation. Implement ASP.NET Web API to handle communication between the front-end and back-end systems. Entity Framework can be utilised to query and manipulate data in the database. Consider using workflow management tools like Windows Workflow Foundation or third-party libraries such as FluentValidation to define and execute approval workflows.

HR view: Automate claim processing and lecturer data management tasks, streamlining administrative processes and improving overall efficiency.

- Automation: Develop functionality to automatically generate invoices or reports summarising approved claims for payment processing. Implement features for managing lecturer data, such as updating personal information or contact details.
- Tools in C# ASP.NET: Utilize ASP.NET Web Forms or ASP.NET Core Razor Pages for building
 the HR interface. Integrate reporting libraries like Crystal Reports or SQL Server Reporting
 Services (SSRS) to generate invoices or reports. Entity Framework can be used for data access
 operations, while ASP.NET Identity can handle user authentication and authorisation.
- 2. PowerPoint Presentation: Create a visually appealing and informative presentation to showcase your application. Ensure that all key aspects of the Contract Monthly Claim System are covered and that its value is effectively communicated.
- 3. Version Control: Regularly commit and push changes to the GitHub repository (10 Times) with clear and descriptive commit messages.

4. Submission Guidelines:

- Add Lecturer Feedback in a Word document and show how you implemented the recommendations.
- PowerPoint Presentation to showcase your application.
- Version Control: Push your source code and your Documentation to GitHub. Repository to be provided.

Appendix A - PoE Marking Rubrics

Assessment Sheet (Marking Rubric)

Please note: Tear off this section and **attach** it to your work when you submit it/ If this is an online submission, then this information needs to be included in the online submission.

MODULE NAME:	MODULE CODE:
PROGRAMMING 2B	PROG6212

STUDENT NAME: STUDENT NUMBER:

	PART 1							
Marking Criteria	Does not meet the required standard	Meets the required standard	Partially exceeds the required standard	Greatly exceeds the required standard	Feedback			
Documentation:	The explanation of design choices,	The explanation of design choices,	The explanation of design choices,	The explanation of design choices,				
Design Choices and Structure [15 Marks]	database structure, and GUI layout lacks clarity and depth. The rationale behind design decisions is unclear or poorly justified.	database structure, and GUI layout is clear and adequately detailed. The rationale behind design decisions is reasonable but may lack some depth or coherence.	database structure, and GUI layout demonstrates clarity, depth, and coherence. The rationale behind design decisions is well-developed and logically presented.	database structure, and GUI layout is exceptionally clear, detailed, and coherent. The rationale behind design decisions is comprehensive and effectively justifies				
				all aspects of the design.				

	0 – 7 Marks	8 – 10 Marks	11 – 12 Marks	13 – 15 Marks	
Marking Criteria	Does not meet the required standard	Meets the required standard	Partially exceeds the required standard	Greatly exceeds the required standard	Feedback
Documentation:	Assumptions or constraints are not provided or are irrelevant	 Relevant assumptions or constraints are provided but lack 	Relevant assumptions or constraints are clearly stated and	Comprehensive and well-explained assumptions or	
Assumptions and Constraints	to the project requirements.	detail or clarity.	aligned with the project requirements.	constraints are provided, demonstrating a thorough	
[5 Marks]	0 – 1 Marks	2 Marks	2 – 4 Marks	understanding of project requirements.	
	0 – 1 Marks	2 Marks	3 – 4 Marks	5 Marks	

			PART 1	PART 1						
UML Class Diagram for Databases: Accuracy and Completeness	The class diagram is inaccurate or incomplete, failing to represent the data requirements effectively.	The class diagram is mostly accurate and complete, representing most data requirements but with some inaccuracies or omissions.	The class diagram is accurate and complete, effectively representing the data requirements.	The class diagram is highly accurate and complete, providing a comprehensive representation of all data requirements.						
[20 Marks]	0 – 9 Marks	10 - 14 Marks	15 - 17 Marks	18-20 Marks						
Marking Criteria	Does not meet the required standard	Meets the required standard	Partially exceeds the required standard	Greatly exceeds the required standard	Feedback					
Project Plan:	The project plan is unrealistic or lacks	The project plan is somewhat realistic and	The project plan is	The project plan is						
	3 5555 5561.5	somewhat realistic and	realistic and achievable,	highly realistic and						
Realism and Achievability	detail, with unclear tasks, dependencies, or timelines.	achievable, outlining tasks, dependencies, and timeline with some clarity but lacking detail.	realistic and achievable, providing clear tasks, dependencies, and timeline with sufficient detail.	achievable, presenting clear, detailed tasks, dependencies, and timeline,						
	detail, with unclear tasks, dependencies,	achievable, outlining tasks, dependencies, and timeline with some	providing clear tasks, dependencies, and timeline with sufficient	achievable, presenting clear, detailed tasks, dependencies, and						

	PART 1									
GUI UI:	The GUI de user-friend	_		user-friendly	•	The GUI design is user- friendly and intuitive,	•	The GUI design is highly user-friendly		
Design and User-	intuitivene	ss, with	and intuiti	ve, with		with good layout and		and intuitive, with		
Friendliness	poor layou	t and	adequate	ayout and		usability.		excellent layout and		
	usability.		usability b	ut room for				usability, exceeding		
			improvem	ent.				expectations.		
[25 Marks]	0 – 12 N	1arks	13 - 18	Marks		19 - 22 Marks		23 - 25 Marks		
Marking Criteria	Does not m	eet the	Meets the	required		Partially exceeds the		Greatly exceeds the	Feedback	
	required st	andard	stand	lard		required standard		required standard		
Version Control:	• 1 Commit i	S	2 Commits	are	•	3 Commits are	•	5 Commits are		
	infrequent	, and	somewhat	frequent, but		reasonably frequent		frequent, and commit		
Commit	commit me	essages	commit m	essages may		and commit messages		messages are clear,		
Frequency and	lack clarity	or	lack clarity	or detail.		to provide clarity and		descriptive, and		
Descriptive	description	n of				detail regarding		informative,		
Messages	changes.					changes.		demonstrating		
								excellent version		
[10 Marks]								control practices.		
	0 – 4 M	arks	5 - 7 [/larks		8 - 9 Marks		10 Marks		
	Total									

MODULE NAME:	MODULE CODE:
PROGRAMMING 2B	PROG6212

STUDENT NAME:	
STUDENT NUMBER:	

	PART 2							
Marking Criteria	Does not meet the Meets the required		Partially exceeds the	Greatly exceeds the	Feedback			
	required standard	standard	required standard	required standard				
Lecturers' Claim	The feature is not	 The feature is 	The feature is	• The feature is				
Submission:	implemented or does	implemented but	implemented	implemented				
	not function as	with some flaws or	effectively, meeting	exceptionally well,				
Implementation	expected, lacking	missing elements,	basic requirements	exceeding basic				
of Feature	essential	impacting usability or	and functioning	requirements and				
	functionality.	functionality.	adequately.	enhancing usability				
[20 Marks]				or functionality				
				significantly.				
	0 – 9 Marks	10 – 14 Marks	15 – 17 Marks	18 – 20 Marks				

			PART 2		
Programme Coordinators and Managers' View: Design of View	The design of the view for coordinators and managers is unclear or disorganised, making it difficult to verify	The design of the view is somewhat clear but lacks organisation or user-friendly features.	The design of the view is clear and organised, facilitating easy verification of claims.	The design of the view is highly intuitive and well-structured, enhancing the verification process significantly.	
[20 Marks]	claims. 0 – 9 Marks	10 - 14 Marks	15 - 17 Marks	18-20 Marks	
Marking Criteria	Does not meet the required standard	Meets the required standard	Partially exceeds the required standard	Greatly exceeds the required standard	Feedback
Lecturers' Document Upload: Feature Implementation [20 Marks]	The document upload feature is missing or does not work properly, failing to allow lecturers to upload supporting documents.	The document upload feature is partially implemented or has some functionality issues.	The document upload feature is implemented effectively, allowing lecturers to upload documents with ease.	The document upload feature is implemented exceptionally well, providing a seamless experience for lecturers and ensuring secure storage of uploaded documents.	
	0 – 9 Marks	10 - 14 Marks	15 - 17 Marks	18 - 20 Marks	

			PART 2		
Lecturers' Document Upload:	Error handling is nonexistent or ineffective, leading to frequent crashes or	Error handling is rudimentary, with limited effectiveness in catching and handling	Error handling is implemented effectively, catching most exceptions and	Error handling is implemented exceptionally well, ensuring the	
Error Handling	incorrect information	exceptions.	displaying meaningful	application remains	
and Display	display.		error messages.	stable and responsive	
				even in the face of	
[10 Marks]				errors or exceptions.	
	0 – 4 Marks	5 - 7 Marks	8 - 9 Marks	10 Marks	
			PART 2		
Marking Criteria	Does not meet the	Meets the required	Partially exceeds the	Greatly exceeds the	Feedback
	required standard	standard	required standard	required standard	
Claim Status Tracking:	The tracking system for claim status is not implemented or does	 The tracking system is partially implemented, with some inaccuracies 	The tracking system is implemented effectively, updating	The tracking system is implemented exceptionally well,	
Implementation	not update	or delays in status	claim status reasonably	providing precision	
of Tracking	accurately, leading to	updates.	accurately and	and reliability and	
System	inconsistencies in		promptly.	real-time and accurate	
	status			updates on claim	
	representation.			status.	
[10 Marks]	0 – 4 Marks	5 - 7 Marks	8 - 9 Marks	10 Marks	

	PART 2								
Marking Criteria	Does not meet the required standard	Meets the required standard	Partially exceeds the required standard	Greatly exceeds the required standard	Feedback				
Consistency and Reliability: Unit Testing and Error Handling	Unit testing is not conducted, or error handling mechanisms are insufficient, leading to inconsistent or unreliable application	Unit testing is conducted to some extent, but errorhandling mechanisms are limited in effectiveness.	Unit testing is conducted effectively, covering key functionalities, and error handling mechanisms are adequate.	Unit testing is conducted comprehensively, covering all critical functionalities, and error handling mechanisms are					
[10 Marks]	behaviour. 0 – 4 Marks	5 - 7 Marks	8 - 9 Marks	robust, ensuring consistent and reliable application behaviour. 10 Marks					
Version Control: Commit Frequency and Descriptive Messages [10 Marks]	2 Commits are infrequent, and commit messages lack clarity or description of changes.	5 Commits are somewhat frequent, but commit messages may lack clarity or detail.	7 Commits are reasonably frequent and commit messages to provide clarity and detail regarding changes.	10 Commits are frequent, and commit messages are clear, descriptive, and informative, demonstrating excellent version control practices.					
•	0 – 4 Marks	5 - 7 Marks	8 - 9 Marks	10 Marks					

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	POE								
Marking Criteria	Does not meet the		Meets the required		Partially exceeds the		Greatly exceeds the		Feedback
	required standard		standard		required standard		required standard		
Application	•	The auto-calculation	•	The auto-calculation	•	The auto-calculation	•	The auto-calculation	
Enhancement		feature is not		feature and		feature and		feature and	
(Automation):		implemented, or		validation checks are		validation checks are		validation checks	
		validation checks are		partially		implemented		are implemented	
Lecturer View		missing, leading to		implemented but		effectively, improving		exceptionally well,	
Automation		inaccurate or		may have some		the accuracy and		ensuring accurate	
		incomplete claim		issues or limitations.		completeness of		and comprehensive	
[20 Marks]		submissions.				claim submissions.		claim submissions.	
		0 – 9 Marks		10 – 14 Marks		15 – 17 Marks		18 – 20 Marks	

Marking	Does not meet the required	Meets the required	Partially exceeds the	Greatly exceeds the	Feedback
Criteria	standard	standard	required standard	required standard	
Application	The automated	The automated	The automated	 The automated 	
Enhancement	verification and approval	verification and	verification and	verification and	
(Automation):	processes are not	approval processes are	approval processes are	approval processes are	
	implemented, or	partially implemented	implemented	implemented	
Coordinator	workflows lack efficiency,	but may have some	effectively, enhancing	exceptionally well,	
and Manager	causing delays or errors in	inefficiencies or	the efficiency and	ensuring streamlined	
View	claim processing.	shortcomings.	accuracy of claim	and error-free claim	
Automation			processing.	processing.	
[20 Marks]	0 – 9 Marks	10 – 14 Marks	15 – 17 Marks	18 – 20 Marks	
			PART 3		
Application	The automation of	The automation of	The automation of	The automation of	
Enhancement	claim processing and	claim processing and	claim processing and	claim processing and	
(Automation):	lecturer data	lecturer data	lecturer data	lecturer data	
	management tasks is	management tasks is	management tasks is	management tasks is	
HR View	incomplete or	partially implemented	implemented	implemented	
Automation	ineffective, leading to	but may lack some	effectively, reducing	exceptionally well,	
	manual intervention	essential features or	manual effort and	significantly	
[20 Marks]	and inefficiencies.	functionalities.	improving	streamlining	
			administrative	administrative	
			efficiency.	processes.	
	0 – 9 Marks	10 - 14 Marks	15 - 17 Marks	18-20 Marks	

	PART 3									
Marking Criteria	Does not meet the required standard	Meets the required standard	Partially exceeds the required standard	Greatly exceeds the required standard	Feedback					
PowerPoint Presentation:	The presentation lacks coverage of key aspects of the	The presentation covers essential aspects of the system but may lack	The presentation provides a comprehensive	The presentation is exceptionally well-structured, visually						
Coverage and Presentation Quality	Contract Monthly Claim System, and the quality of presentation slides is	depth or visual appeal in some areas.	overview of the system with visually appealing slides and clear communication of	appealing, and effectively communicates the value of the Contract						
[20 Marks]	poor or inconsistent. 0 – 9 Marks	10 - 14 Marks	value. 15 - 17 Marks	Monthly Claim System. 18-20 Marks						
			PART 3							
Design and User- Friendliness	The GUI design lacks user-friendliness and intuitiveness, with poor layout and	The GUI design is somewhat user-friendly and intuitive, with adequate layout and	 The GUI design is user- friendly and intuitive, with good layout and usability. 	The GUI design is highly user-friendly and intuitive, with excellent layout and						
[10 Marks]	usability. 0 – 4 Marks	usability but room for improvement. 5 - 7 Marks	8 - 9 Marks	usability, exceeding expectations. 10 Marks						

	PART 3								
Marking Criteria	Does not meet the required standard	Meets the required standard	Partially exceeds the required standard	Greatly exceeds the required standard	Feedback				
Version Control:	2 Commits are infrequent, and	5 Commits are somewhat frequent, but	7 Commits are reasonably frequent	10 Commits are frequent, and commit					
Commit	commit messages	commit messages may	and commit messages	messages are clear,					
Frequency and	lack clarity or	lack clarity or detail.	to provide clarity and	descriptive, and					
Descriptive	description of		detail regarding	informative,					
Messages [10 Marks]	changes.		changes.	demonstrating excellent version control practices.					
	0 – 4 Marks	5 - 7 Marks	8 - 9 Marks	10 Marks					
	Total								