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Interim Progress Report (IPR)

25%

Due: Mon, 1 May 2023 23:59

 REVIEW FEEDBACK
Attempt 1 Submitted on 1 May 2023 23:58 8%Attempt 1 Score:
25%

Unlimited Attempts Allowed

Available until 8 May 2023 23:59

Details

Weighting %:	5%	Submission deadline (for students):	1-May-2023
Authorship:	Individual	Target date for returning marked coursework:	29-May-2023
Tutor setting the work:	Bente Riegler	Number of hours you are expected to work on this assignment:	30

This Assignment assesses the following module Learning Outcomes (from Definitive Module Document):

- [7COM1038: Software Engineering Masters Project](#)
- [7COM1039: Advanced Computer Science Masters Project](#)
- [7COM1040: Computer Science Masters Project](#)
- [7COM1070: Cyber Security Masters Project](#)
- [7COM1075: Data Science and Analytics Masters Project](#)
- [7COM1077: Computer Networks and Systems Security Masters Project](#)
- [7COM1086: Artificial Intelligence and Robotics Masters Project](#)

Assignment Tasks:

You should have done about 260-300 hours work on your project by the time you submit your Interim Progress Report (IPR). We expect you will have made significant inroads into your practical investigation, as well as carrying out background research. You should prepare a written report on the progress you have made. This report should be aimed at a technically competent reader who knows nothing about your project, such as the independent second marker. Please check the [module handbook](#) for guidance on how to structure your Interim Progress Report (IPR). Supporting evidence (e.g. screenshots, source code) must be included as appendices.

You need to include your student ID number, name and your supervisor's name on the first page of your report.

Submission Requirements:

When you are ready to submit your report, convert it (and any accompanying documents) into a **single document file**. The name of the file submitted should be your student registration number followed by your name (e.g. 12003456-John-SMITH.pdf).

Suggested file types for the submission:

- Microsoft Word (.doc/.docx)
- OpenOffice Text (.odt)
- PDF (pdf)

Submission deadline to Canvas by **23:59 pm (UK local time) on Monday 1st May 2023**.

The Interim Progress Report (IPR) has online submission to Canvas **ONLY**

Marks will be deducted if you do not follow these simple instructions.

Marks awarded for:

This assignment is worth 5% of the overall assessment for this module

100 marks in total are awarded as below:

1. Background research (15 marks)
2. Summary of progress to date (15 marks)
3. Consideration of ethical, legal, professional and social issues (20 marks)
4. Project plan (10 marks)
5. Appendices (10 marks)
6. Referencing (10 marks)
7. Report structure and coherence (10 marks)
8. Readability, grammar and spelling (10 marks)

Please also see details in the [IPR marking form](#).

Type of Feedback to be given for this assignment:

Written feedback from the project supervisor and/or via discussions with your project supervisor during project meetings.

Additional information:

- Regulations governing assessment offences including Plagiarism and Collusion are available from https://www.herts.ac.uk/_data/assets/pdf_file/0007/237625/AS14-Apx3-Academic-Misconduct.pdf (UPR AS14).
- Guidance on avoiding plagiarism can be found here: https://herts.instructure.com/courses/61421/pages/referencing-avoiding-plagiarism?module_item_id=779436

- All work (for example; questionnaires, interviews, and consulting etc) with human subjects (any human; including peers, family and friends etc) must obtain UH ethical clearance before the work commences. Failure to gain clearance is treated as academic misconduct and could lead to the failure of the project
- For postgraduate modules:
 - a score of 50% or above represents a pass mark.
 - late submission of any item of coursework for each day or part thereof (or for hard copy submission only, working day or part thereof) for up to five days after the published deadline, coursework relating to modules at Level 7 submitted late (including deferred coursework, but with the exception of referred coursework), will have the numeric grade reduced by 10 grade points until or unless the numeric grade reaches or is 50. Where the numeric grade awarded for the assessment is less than 50, no lateness penalty will be applied.

[View Rubric](#)

Select Grader

Joseph Williams (Teacher)

IPR (1)						Points
Criteria	Ratings					
Background research (maximum 15)	15 pts Excellent Excellent review, concise critical review, set into context of project	12 pts Good Good, concise review of relevant papers, some critical appraisal, set into context of project	8 pts Satisfactory Satisfactory review, concise review of relevant papers, limited critical appraisal	4 pts Limited review Limited review, overview of few relevant papers with no critical appraisal	0 pts No marks Limited review, overview of few relevant papers with no critical appraisal	4 / 15 pts
Comments Where is the research? There is not a single reference.						
Summary of progress to date (maximum 15)	15 pts Excellent Excellent summary of progress, substantial implementation work	12 pts Good Good summary of progress, some implementation of work	8 pts Satisfactory Satisfactory summary of progress, little implementation work	4 pts Inconsistent Inconsistent, some evidence of progress but lacking continuity	0 pts No marks Little or no evidence of progress	4 / 15 pts
Consideration of ethical/legal/professional and social issues (maximum 20)	20 pts Excellent Excellent consideration of legal/professional/social issues, and knowledge of University procedures in relation to ethics approval demonstrated	15 pts Very good Very good consideration of legal/professional/social issues. Some awareness of University procedures in relation to ethics approval demonstrated	10 pts Satisfactory Most but not all ethical/legal/professional/social issues considered	5 pts Limited Naïve/superficial consideration of ethical/legal/professional/social issues	0 pts No marks None submitted, or irrelevant	0 / 20 pts
Project plan (maximum 10)	10 pts Excellent Excellent, concise and coherent project plan with clearly defined tasks and timelines	8 pts Good Good, concise and coherent project plan. Clearly defined tasks and timelines with minor errors	5 pts Satisfactory Satisfactory, concise and coherent project planning with some defined tasks and timelines	2 pts Limited Some evidence of project planning but too vague	0 pts No marks Little or no evidence of project planning	2 / 10 pts
Appendices (maximum 10)	10 pts Excellent Appendices provide excellent evidence of progress e.g. record of supervisory meetings, source code, screenshots, version control, test plans	8 pts Good Appendices provide good evidence of progress e.g. record of supervisory meetings, source code, screenshots	5 pts Satisfactory Appendices provide some evidence of progress	2 pts Limited Appendices provide little evidence of progress	0 pts No marks No appendices	5 / 10 pts
Referencing (maximum 10)	10 pts Excellent Excellent referencing and use of technical terms	8 pts Good Good use of referencing and technical terms, occasional mistakes	5 pts Satisfactory Satisfactory referencing and use of technical terms, minor mistakes	2 pts Incomplete Incomplete referencing and use of technical terms, frequent mistakes	0 pts No marks Little or no coherent referencing and use of technical terms	0 / 10 pts
Report structure and coherence (maximum 10)	10 pts Excellent Lucid presentation high clarity. No structural errors. Ideas presented with exceptional clarity	8 pts Good Fluently written with very few errors. Very minor structural errors. Ideas presented with excellent clarity	5 pts Satisfactory Writing is mainly clear with some structural issues. Ideas presented with some issues in clarity	2 pts Limited Lacking structure. Few clear ideas presented	0 pts No marks No discernible structure. No presentation of ideas	5 / 10 pts
Readability, grammar and spelling (maximum 10)	10 pts Excellent Outstanding standard of production, report set out in clear and attractive format. No grammar/ spelling I errors.	8 pts Good High standard of production, infrequent production errors, clear and labelled diagrams. Very minor grammar/spelling I errors.	5 pts Satisfactory Satisfactory presentation, minor errors in spelling/grammar and formatting, but text conveys meaning.	2 pts Limited Argument difficult to follow. Patchy presentation, frequent errors in formatting compromising meaning and readability. Poor	0 pts No marks Very difficult to follow. Many grammar/ spelling errors.	5 / 10 pts

The screenshot shows a digital document editor interface with a toolbar at the top. The main content area contains the following text:

Interim Progress Report (IPR)

Student Number: 20070587
Student Name: Mahmud Hasan
Course: MSc Software Engineering with Advanced Research
Supervised by: Joseph Williams

Project Title: Comparative study of cryptography algorithms and its' applications.

Introduction and overview

The purpose of this master's project is to conduct a comparative study of cryptography algorithms and their applications. The primary goal of this project is to conduct a comparative study of cryptography algorithms and evaluate their performance based on various parameters such as security, efficiency, and usability. The aim of the project will be to discuss different types of cryptographic algorithms and a comparative study between them according to real-world use examples.

The project aims to address the following research questions:

1. What are the main cryptographic algorithms used today, and what are their key features and characteristics?
2. How do these algorithms compare in terms of security, speed, and efficiency?
3. What are the most common applications of cryptographic algorithms, and what are the specific requirements and constraints of these applications?
4. How do different algorithms perform in specific use cases, such as secure messaging, online transactions, or cloud storage?
5. What are the current trends and challenges in the field of cryptography, and how are they shaping the development and use of cryptographic algorithms?

To answer these questions, we will undertake the following practical investigation:

1. Construct a data set of different cryptography algorithms and their respective characteristics.
2. Develop software to implement and evaluate these algorithms.
3. Test the algorithms using a variety of test cases.
4. Analyze the results and draw conclusions about the performance of each algorithm.

The tools and techniques we will be using include programming languages such as Python, C++, and Java. We will also use simulation software and statistical analysis tools to evaluate the performance of the algorithms.

This report will focus on evaluating the performance and security characteristics of various cryptographic algorithms, assessing their usability and compatibility by the following objectives:

1. Evaluate the performance and security characteristics of different cryptographic algorithms: By comparing and analyzing the performance and security features of various cryptographic algorithms, researchers can determine which algorithms are suitable for particular applications.
2. Assess the usability and compatibility of cryptographic algorithms: Cryptographic algorithms can be complex and difficult to implement and integrate with other systems. A