ASSESSMENT AND INTERNAL VERIFICATION FRONT SHEET (Individual Criteria)

Course Title	Bachelor of Science (Hons.) Software Development / Multimedia Software Development / Computer Systems and Networks		**Lecturer Name & Surname**	Kassandra Calleja, Frankie Inguanez, Neville Magri, Daren Scerri.	
Unit Number & Title	ITNET-506-1605 – Project				
Assignment Number, Title / Type	Project				
Date Set	17/02/2021	**Deadline Date**	31/05/2021		
Student Name		**ID Number**		**Class / Group**	

Assessment Criteria	Maximum Mark
KU1 Collect and present research in relation to a proposed interdisciplinary software project	5
KU2 Identify and construct a hypothesis	5
KU3 Identify project methodologies	5
KU4 Illustrate a detailed project plan which includes task prioritization, target milestones and practical contingency plans	5
KU5 Review project plan so as to take into account advice, time constraints and available resources	5
AA1 Initiate and maintain a systematic and comprehensive project logbook	7
KU6 Identify quality assurance strategies with particular reference to error/bias	5
AA2 Prepare and implement agreed data collection techniques	7
AA3 Prepare and implement agreed data analysis techniques	7
KU7 Prepare and implement a prototype/proof-of-concept application	5
SE1 Evaluate project outcomes with reference to project specification, agreed procedures and solution plan	10
AA4 Investigate the extent to which results confirm original hypothesis	7
AA5 Investigate areas in which results suggest the original hypothesis needs modification	7
SE2 Evaluate strengths and weaknesses of work undertaken - with particular reference to success (or otherwise) in achieving planned objectives.	10
SE3 Create a comprehensive project report using a formal style of authorship	10
Total Mark	100

Notes to Students:

- This assignment brief has been approved and released by the Internal Verifier through Classter.
- Assessment marks and feedback by the lecturer will be available online via Classter (Http://mcast.classter.com) following release by the Internal Verifier
- Students submitting their assignment on Moodle/Unicheck will be requested to confirm online the following statements:

Student's declaration prior to handing-in of assignment

- ❖ I certify that the work submitted for this assignment is my own and that I have read and understood the respective Plagiarism Policy

Student's declaration on assessment special arrangements

- ❖ I certify that adequate support was given to me during the assignment through the Institute and/or the Inclusive Education Unit.
- ❖ I declare that I refused the special support offered by the Institute.

1. Aims & Objectives

The main aim of this project is to prepare the learner for their dissertation research project.

- Formulate a research methodology made up of hypothesis, research questions, research pipeline & research methods.
- Conduct initial research on the current state of the art of the topic.
- Perform research to evaluate findings, compare with the current state of the art and formulate an opinion for future work.

2. Project Ideas

Several research ideas are being presented to you either during class, on Moodle or via talks. These will help you identify potential research ideas that can then be discussed with your allocated project lecturer.

3. Deliverables

3.1 Project Plan

Use the provided template to develop a simple project plan. You are to revise this plan from feedback provided.

3.2 Log of work

You are required to maintain a log of your progress via a GIT repository shared with your lecturer. You are to add a comment clearly indicating the criteria you are attempting in the commit and be as expressive as possible. The repository should contain the following folder structure:

- **lit** – All academic papers used.
- **src** – Source code/configuration files of our prototype. Please do not include virtual machines or large datasets. Consult with your lecturer for such cases on how you shall disseminate large files.
- **doc** – Paper document, regulations, etc.

3.3 Project Documentation

Documentation will be in the form of an IEEE-styled paper (3-5 pages excluding references). You should include at least 3 academic references and be concise in your writing.

- Title (including full name, college details and personal college email address)
- Abstract (approx. 100 words brief on your research)
- Keywords (around 4 terms related to the research and techniques used)
- Introduction (hypothesis, research question, aims, objectives, motivation and relevance of research)
- Literature review / current research / alternatives
- Research Methodology (the adopted approach)
- Evaluation (Data gathered, interpretation and reflection)
- Conclusion (assessment on project outcome and recommendations for future work)

3.4 Prototype, Video, VIVA

At the end of your project, you should have a working prototype/proof-of-concept for which you must present the following:

- Clear usage instruction
- A link to a 2-5 minutes YouTube (or equivalent) video demonstrating its use

- Any accompanying source code/configuration files. In case where this is a large volume file make arrangements with your lecturer.
- Present your work during a VIVA.

4 Grading Criteria

Project / Academic Report (SE3)	
Use of proper academic writing style	4
Adherence to IEEE paper template	2
Proper use of referencing	4

Project / Log of work (AA1)	
Setup a GIT repository, commit and push your work regularly with meaningful messages	1
Share Repository with Lecturer	1
Attend meeting & show work	5
Show substantial Progress	1.5
Take on Feedback	1.5

Research Methodology / Hypothesis, Research Questions & Methods (KU2)	
Provide a Hypothesis on which your research shall focus	1
Provide two research questions	2
Provide a research method for each research question	2

Research Methodology / Proof of concept / Pipeline (KU3)	
Provide a research pipeline for your research	3
Describe and justify your methodology in your research paper	2

Research Methodology / Project Plan (KU4)	
Provide a realistic project plan and present it to your lecturer	2
Adhere to the provided project and provide justification when this was not possible	3

Research Methodology / Review Project Plan (KU5)	
Revise the project plan from time to time to take into consideration shifting deadlines and feedback. Make sure to include the criteria number in your commit.	5

Literature Review (KU1)	
Relevance and quality of **3** research papers	2
Proper review of selected literature	3

Evaluation / Prototype/pipeline (KU7)	
Implement a prototype as a proof of concept of your research pipeline	4
Document the techniques used in the implementation	1

Evaluation / Prototype/pipeline (AA3)	
Implement techniques to analyse/evaluate your prototype	5
Document the techniques previously adopted to analyse your prototype	2

Evaluation / Data (AA2)	
Gather the data used for this research and describe it properly.	4
Justify the effectiveness of the chosen data.	3

Evaluation / Hypothesis Testing (KU6)	
Test your research hypothesis	3
Answer your research questions	2

Evaluation / Project (SE1)	
Assess your project (timeline, resources, choices made)	5
Propose improvements	5

Conclusion & Recommendations / Achievements & Limitations (SE2)	
Identify limiting factors to the performance of your research	3
Criticise the project plan and its effectiveness on this research.	3
Identify what could have been done differently in this research project.	4

Conclusion & Recommendations / Recommendations (AA5)	
Propose realistic extensions of this research	4
Defend the outlined future work during meetings with your lecturer	3

VIVA (AA4)	
Present a video of your project	3
Present your project during a VIVA	4