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|  | **Faculty Of Art, Science and Technology**  **Field of Computing** |

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| **Module Level:** | Level 5 |
| **Module Code + Name:** | CSY2088 | Group Project (AI) |
| **Credit Value:** | 20 |
| **Module Leader:** | Mu Mu | mu.mu@northampton.ac.uk |
| **Assessment Code + Type:** | PJ |
| **Assessment Deliverable(s) as stated in the Module Specification:** | **Develop a mental wellbeing chatbot for UON students** |
| **Weighting (%):** | **100%** |
| **Submission Date:** | 23.05.25 |
| **Feedback and Grades:** | See NILE for feedback under Assessment and Submission |

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| **Module Learning Outcome** |
| **On successful completion of the module with guidance students will be able to:** |
| **Subject-Specific Knowledge, Understanding & Application** |
| 1. Recognise and apply principles underlying project management and legal and ethical project considerations |
| 1. Exercise initiative and display the simple application of a range of technical skills and knowledge in the completion of assigned tasks. |
| **Changemaker & Employability Skills** |
| 1. Work effectively as a member of a small team, managing time and accepting the responsibility in leading, or taking a critical role in a project with strict goals, constraints and deadlines. |
| 1. Communication: communicate orally with others and produce clear, written, visual and oral project reports and presentations. |
| 1. identify project management skills in the completion of specific tasks which contribute to collaborative projects |

To achieve this, you will need to:

1. Work in a group to design, develop and evaluate a solution.
2. Demonstrate an understanding of your work and how it relates to the brief.

**NOTE**: Students who can not demonstrate understanding of their work, will not pass.

**The module tutor may invite you for a viva-voce. Poor demo/viva could negatively influence other sections in the marking criteria and result in an overall fail grade.**

**Assessment Tasks**

**SUMMARY:** You will work in a team (normally 3 or 4 students) to design, develop and evaluate a mental wellbeing chatbot for UON students to help with issues such as loneliness, isolation, and stress. You must first carry out research to establish what type of chatbot and features would benefit UON students the most. It is important to notice that you are not developing a solution to replace professional mental health services nor providing treatment for mental disorders. The project will be assessed based on requirement analysis, technical development, evaluation study, and project management/teamwork. Project deliverables include Technical Report, Software solution including all source code, and Team Presentation. Individual student grades will be extracted from the overall group grade based on individual contribution and peer assessment.

**SPECIFICATIONS:**

1. Establishing Requirements:

The project requirements will be established by the team through both primary and secondary research. The team will gather first-hand information from students and staff through interviews or questionnaires to understand their challenges and expectations. Research of related solutions and literature should be carried out to ensure that the design is competitive.

2. Functionalities:

The project should cover but not limited to the following functionalities.

• The design should reflect evidence from the primary and secondary research.

• The chatbot should have the “intelligence” to interact with its users naturally and adapt to individual user’s response. Such interactions can take place via text messages while natural voices and move advanced techniques such as virtual characters are also welcomed.

• The information provided by the chatbot should be specific to UON students whenever possible.

• For the development, you should use open-source packages whenever possible. The use of commercial APIs is permissible, but you must provide an estimated operational cost of your solution and prove that it can be financially sustainable for the client, i.e., university.

• The design and implementation should factor in EDI (equality, diversity, and inclusion) and ethical considerations.

• You may choose any user interface types (web, app, etc.)

• The final product should be evaluated by at least 10 participants who are not from your team. The chatbot should record granular user interaction data anonymously for evaluation and service improvement.

**Deliverables**

The project deliverables are detailed below:

* A suitable group project Technical Report. An indication of essential reports sections and suggested content can be found in Appendix 1
* A formal final Group Presentation demonstrating your final software solution (Approximately 30 minutes).
* All Software Components and source code developed as a solution to the problem.

**Assessment Regulations and Polices**

# Assessment Submission

* The deadline is 11.59pm (British time) on the due date *provided on* NILE
* Submit your work on NILE, under:

Assessment and Submission

* The completion and submission of your assignment are your responsibility
* Only work submitted through NILE will be marked
* Submission should be in the appropriate format
* You must grant relevant access to videos and links

Work correctly uploaded to Turnitin will get a receipt for proof of submission. Submission not through Turnitin, will have a green banner at the top of the screen for successful submission.

**Use of Generative AI and Others work**

* This assessment applies the following Generative AI guidelines

Category 2: GenAI can be used in an assistive role

You may make use of GenAI in your assessment in an assistive role, but you must acknowledge this appropriately. Steps 2 and 3 outline the different types of GenAI use, what you need to acknowledge and how you should do this.

***Note****:* *See University Of Northampton Guidance on* [*GenAI*](https://libguides.northampton.ac.uk/artificialintelligence/guidance)*: https://libguides.northampton.ac.uk/artificialintelligence/guidance*

**Academic Integrity**

* The UON’s Policy on Academic Integrity and Misconduct must be strictly implemented
* Submitting this assignment means that this is entirely your work
  + All work for this submission must be your (your group’s) own
  + All work for this submission must be based on module content
* All work for this assignment must be developed originally & solely for this submission
* You may discuss work with other students, but any code written should be your own
* All sources must be referenced and clearly cited
* You must submit all items of the assessment according to the submission procedure stated in this document
* Failing to meet the university’s guidance on AI and Plagiarism will impact your grade
* Failure to follow the submission procedure may impact your grade
* A high similarity report from TurnItIn may impact your grade, subject to investigation

***Note****: See University Of Northampton Guidance on* [*Plagiarism*](https://xerte.northampton.ac.uk/xertetoolkits/play_4922#page1)

**Grading:**

Your grade is dependent on achievement of the specified learning outcomes for this assessment. The rubric is used as a standard benchmark so assignments are marked equally. The grading rubric is based on the criteria you are assessed on. See the marking criteria rubric *provided on NILE.*

* Marks are given for assignment requirements only
* Late submissions, within 7 days of deadline, maximum grade is a pass, (40%)
  + This does not include resits, which are already capped at pass (40%)
* Late submissions, more than 7 days after the deadline, are fails
* Grades above 39% are a pass mark
* Passed assessments can not be retaken to improve the grade
* Students with grades less than pass (40%) get 1 opportunity to resit the assessment
* Standard resit grades are capped at a pass (40%)

**Extensions and Mitigating Circumstances**

Students who experience extreme unprecedented circumstances that impact their study can appeal for extensions or [mitigating circumstances](https://www.northampton.ac.uk/about-us/governance-and-management/management/university-policies-procedures-and-regulations/) to extend the deadline of their assessments.

* A student who attends an examination or submits an assessment declares themselves ‘fit to sit’ and cannot afterwards submit a claim for Mitigating Circumstances.

**Marking Criteria**

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| Assignment Component | Weighting |
| Primary and secondary research | 15% |
| Requirement Specification | 15% |
| System Design | 20% |
| Prototype System | 30% |
| Test/Evaluation Strategy | 10% |
| Project Management/Teamwork | 10% |