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##### School of Computer of Science

##### ASSIGNMENT BRIEFING SHEET (2018/19 Academic Year)

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| **Assignment Title** | Initial Project Idea (IPI) | **Submission Date** | 06/06/2019 |
|  |  |  |  |
| **Module Title** | Master Project (MSc Online/Tutored E-learning) | **Module**  **Code** | 7WCM0003/07/13/31 |

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| **Tutor** | **Xianhui Che** | **GROUP or INDIVIDUAL Assignment** | Individual |

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| **FOR INDIVIDUAL ASSIGNMENTS – *STUDENT TO COMPLETE***   |  | | --- | | **(Comments on this assignment by students can be made on the back of the assignment briefing sheet).**  By completing **BOX A** below, I certify that thesubmitted work is entirely mine and that any material derived or quoted from the published or unpublished work of other persons has been duly acknowledged. **[ref. UPR AS12, section 7 and UPR AS14 (Appendix III)].** I also certify, that any work with human participants has been carried out under an approved ethics protocol in accordance with UPR RE01.  *Please print your forename and surname in capitals and provide your ID (srn) number.* |   **BOX A**   |  |  |  |  | | --- | --- | --- | --- | | **Student Forename**  *(in CAPS please)* | **Student Surname**  *(in CAPS please)* | **Student ID Number (SRN)** | **Signature of Student** | | **COLIN** | **YOUNGE** | 16018361 | **CYounge** | |

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**This sheet must be submitted with the assignment, signed and either BOX A or B filled in.**

**LATE SUBMISSION WILL ATTRACT A STANDARD LATENESS PENALTY.**

1. For undergraduate modules, a score of 40% or above represents a pass mark.
2. For postgraduate modules, a score of 50% or above represents a pass mark.
3. For work submitted up to 5 working days late marked is capped to a bare pass (40% for undergraduate and 50% for postgraduate).
4. For work submitted more than 5 working days a mark of zero will be awarded for the assignment.

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| **THE ASSIGNMENT TASK:**   * Complete the form on page 4. |
| **MODULE LEARNING OUTCOMES ASSESSED BY THIS ASSIGNMENT:**  Successful students will typically....   * be able to plan and manage a substantial body of work, identify any risks inherent in their chosen approach, and work independently with minimum supervision |
| **SUBMISSION REQUIREMENTS:**   1. Save your completed form in PDF format, by the name ***YourFirstname\_SRN\_IPI.pdf***. 2. Upload the file to the IPI link in the Assignment Section on Canvas module site by the deadline defined below. |
| **FEEDBACK FROM THIS ASSIGNMENT**  A general comment will be made on the suitability of your project idea by the module team via Canvas feedback form. |
| **MARKS AWARDED FOR:**  There is 0 mark associated with this assignment. |

### DEADLINES AND ASSIGNMENT WEIGHTINGS

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| 1 | This assignment is worth | | 0% | | of the **overall assessment** for this module. | | | |
|  |  | |  | |  | | | |
| 2 | You are expected to spend about | | | 10 | | Hours to complete this assignment to a satisfactory standard | | |
|  |  | | |  | |  | | |
| 3 | Date assignment set | 20/05/2019 | | | | Date completed assignment to be handed in | 06/06/2019 | |
|  |  |  | | | |  |  | |
| 4 | Target date for return of marked assignment | | | | | 13/06/2019 |  |  |

**INTERNAL MODERATION**

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| --- | --- |
| This assignment has been internally moderated.  I confirm:   * That the assignment set, meets the requirements of the module and that the brief provides appropriate content for students to successfully complete the assignment. * That the assessment is at an appropriate level and matches QAA level descriptors and is an appropriate form of assessment within the total range of assessments for this module. * That the marking scheme is attached and that students can determine how marks are allocated. * That this assessment can be completed **and** marked within University timeframes, and provides detailed feedback (more than just a grade) that supports learning.   . | ***Moderator name, signature and date***    **Dr Olga Angelopoulou**  **09/05/2019** |

Master Project (MSc Online/Tutored E-Learning)

School of Computer Science

**Initial Project Idea**

**Section 1. Your Personal Details**

Your First Name(s): Colin

Your Family Name: Younge

Your SRN: 16018361

Your MSc Study Route (CS, DSN, ELT, or SE): CS

Your Email Address (the one your provided on enrollment): colin.younge@googlemail.com

Your Contact Tel No (Optional): 07595826595

**Section 2. Your Project Idea**

**2.1 Project Title**

*Enhancement of search results by machine learning, in the context of an enterprise knowledge base application.*

**2.2 Project Description**

*My employer, Origin Frames Ltd, is a manufacturer of windows and doors seeking to improve the communication of technical information to sales and administrative staff in order to reduce errors. My proposal is to build an application to make existing communications and content more easily searchable, by taking advantage of machine learning techniques.*

*To date, machine learning has largely been employed by technology giants and start-ups, whose products are directly built on these technologies. This project would demonstrate the application and potential of this technology to support the work of the modern enterprise in other areas of the economy.*

**2.3 Project Tasks and Deliverables**

1. *Collate and catalogue existing technical content*
2. *Have technical experts review the content and tag it appropriately*
3. *Implement a machine learning algorithm to classify content with the respective tags*
4. *Build an API and web / mobile application interface to query and display content*
5. *Implement a machine learning algorithm to rank the content appropriately*
6. *Have users perform searches, and train the algorithm by ranking the hits*
7. *Take advantage of user feedback within the interface (i.e. reporting incorrect tags, ignoring the top results etc.) to continuously improve the algorithms*

**Section 3. Supervisor**

N/A