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| **Course: COMP1640  Enterprise Web Software Development - Group** | **Contribution: 60 % of course** |
| **37: Enterprise Web Software Development - Term 2 - MAC** | **PDF file required - Artefact also required: Links to repository and screencasts** |
| **Greenwich Course Leader: Mr Matthew Prichard** | **Due date: 16 April 2020** |
| This coursework should take an average student who is up-to-date with tutorial work approximately 50 hours | |
| **Learning Outcomes:** All | |

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| **Plagiarism** is presenting somebody else’s work as your own. It includes: copying information directly from the Web or books without referencing the material; submitting joint coursework as an individual effort; copying another student’s coursework; stealing or buying coursework from someone else and submitting it as your own work.  Suspected plagiarism will be investigated and if found to have occurred will be dealt with according to the procedures set down by the University.   **All material copied or amended from any source (e.g. internet, books) must be referenced correctly according to the reference style you are using.  Your work will be submitted for electronic plagiarism checking.  Any attempt to bypass our plagiarism detection systems will be treated as a severe Assessment Offence.** |

### ****Coursework Submission Requirements****

* An electronic copy of your work for this coursework should be fully uploaded by midnight (local time) on the Deadline Date.
* The last version you upload will be the one that is marked.
* For this coursework you must submit a single Acrobat PDF document. In general, any text in the document must not be an image (i.e. must not be scanned) and would normally be generated from other documents (e.g. MS Office using "Save As .. PDF").
* **For this coursework you must also handin this artefact: Links to repository and screencasts**
* There are limits on the file size. The current limits are displayed on the coursework submission page on the Intranet
* Make sure that any files you upload are virus-free and not protected by a password or corrupted otherwise they will be treated as null submissions.
* Comments on your work will be available from the Coursework page on the Intranet. The grade will be made available in the portal.
* You must NOT submit a paper copy of this coursework.
* All coursework must be submitted as above

The University website has details of the current Coursework Regulations, including details of penalties for late submission, procedures for Extenuating Circumstances, and penalties for Assessment Offences.  See <http://www2.gre.ac.uk/current-students/regs>for details.

**Scenario**

This is a group coursework with a maximum of six in the group.

You need to adopt agile scrum working practices, and document your meetings appropriately. Ideally you need a database designer, a programmer, a web designer and a tester, but you should take on all these roles at various stages as part of the project, and more than one person can be in any role at any time. No one is to take the role of project manager.

You will get an individual grade based on your contribution to the team, and for your individual contribution to the product.

**Specification**

You are required to build a web-based secure role-based system for eTutoring in a large university. Full details of the system will be given in lectures.

The system must meet the following criteria:

* All students must have a personal tutor.
* Any authorised member of staff can allocate or reallocate personal tutors to students. The student and the personal tutors will get notification emails when this happens.
* Bulk allocation of students to their personal tutor (eg 10 at a time) needs to be implemented.
* All students and their tutors are to use the eTutor system for messaging, arranging and recording meetings (both real and virtual), uploading documents and commenting on them, and for blogging.
* Email between students and their personal tutors is to be used only for notification of events recorded in the backend database. No other content is to be sent via email.
* Student and staff data is accessed from the university MIS system. The maintenance of this is outside the scope of this project.
* Each student will have their own personal dashboard summarising their interaction with their personal tutor.
* Each personal tutor will have a dashboard of their personal tutees that can be sorted and filtered appropriately
* Authorised staff will have access to the dashboards of other staff, and to individual dashboards for students.
* The interface must be suitable for all devices (eg mobile phones, tablets, desktops)

**Assumptions**

You must clearly state any assumptions you make.

**Reports**

A number of reports need to be made available. For example

* Statistics
  + Number of messages in last 7 days
  + Average number of messages for each personal tutor
* Exception reports
  + Students without a personal tutor.
  + Students with no interaction for 7 days and 28 days.

**Tasks**

1. Work as a team using agile scrum methods to develop and test a secure web-based system to meet the above specification.
2. Create a screencast recording (including screen and sound) demonstrating the key functionalities of the system. This needs to be hosted somewhere (e.g. YouTube) that is accessible by the Greenwich moderator
3. Present the finished product to a non-technical audience to try to persuade them to purchase your system.
4. Document the system to an appropriate standard using a weighted scoring model with commentary, including an evaluation of the design process you followed and your reflection on the finished product, and on the contributions of your team members.

**Deliverables**

1. A **Group Report based on a Group Repository** containing all the artefacts produced by the team (eg ERD, minutes, test log, product backlog) with a menu allowing easy access to its content. The repository must be secure, but accessible by the Greenwich moderator. The Scrum Master is responsible to ensure this gets uploaded by the due date.
2. A **Presentation** and **Screencast**  
   You must be present aspart of the team that presents the finished product to your tutor, and should contribute to the screencast. The **presentation** should be pitched at a non-technical audience to try to persuade them to purchase the product; the **screencast** should demonstrate the functionality of the system

**Assessment Breakdown**

**Group Component (60%)**

This will be assessed based on a group report and a group repository created by the group on a secure shared area accessible to the Greenwich markers. Password and URL must be provided in individual reports. Must be suitably structured with a menu. Suggested location: GitHUB, Google Docs, SharePoint 365, own website, DropBox or other repository.

Database 10%  
Expect: Security, appropriate data types and validation, clear ERD, referential integrity implemented, enables roles to be implemented

Site design 10%  
Expect: Responsive design, clear information architecture for both mobile and desktop, aesthetically pleasing, good usability, meets accessibility criteria

Functionality 10%  
Expect: Role based security, submission of reports, email notification, summary and exception reports, UML diagrams, code snippets  
  
Testing 10%  
Expect: Test plan, test log, sufficient data to fully test, evidence of testing finding errors, test items linked to user stories in the product backlog

Agile methods followed 10%  
Expect: Burn down chart, minutes of meetings, user stories, sprints, product backlogs

Screencast and Presentation 10%  
Expect: Professional standard of presentation promoting the product, with contributions by all the team members, Screencast demonstrating all the main features of the product. Screencast can be done by one person.

**Indicative Grading Criteria**

>=70%   
Well designed system to fully meet the requirements  
Professional standard of report, with appropriate documentation  
High level of individual commitment  
High level of evaluative commentary  
  
60-69%  
Well designed system to meet most of the requirements  
Professional standard of report  
High level of individual commitment  
Limited evaluative commentary

50-59%  
Well designed system to meet most of the requirements  
Acceptable standard of report  
Good level of individual commitment  
Limited evaluative commentary

40-49%  
Acceptable system to meet most of the requirements  
Acceptable standard of report  
Acceptable level of individual commitment  
Limited evaluative commentary

<40%  
Poorly designed system   
Few requirements met  
Poor standard of report  
Limited individual commitment  
No evaluative commentary