University of Westminster – College of Design, Creative and Digital Industries

School of Computer Science and Engineering

Referral/Deferral Assessment for 5COSC021W Software Development Group Project

**Deadline Thursday 6th July 2023 – 1pm**

The coursework brief is similar to the original 2022/23 coursework, but it is **individual**. The table below tells you which templates you must fill in and submit. Please note:

* We will not organise vivas but If you are submitting CWK2 you also need to submit your code and upload a video (with voice explanation) that demonstrates and explains the code of your implementation.
* **CWK2 submissions that don’t include template and/or code will receive 0%.**
* **CWK2 submissions that don’t include video (with voice explanation of code and running the application, if it runs) will be capped to 30%.**
* Students that are submitting both CWK1 and CWK 2, it is expected that CWK 2 follows the design of their referral/deferral CWK1 submission.
* Students that are submitting only CWK2 it is expected that the design, as necessary for the elements required, follows (if they wish, changes are allowed) the design of their CWK 1 submission during the semester.

|  |  |  |  |
| --- | --- | --- | --- |
| Provisional module decision | | Template to be used | Coursework type |
| CWK1 | CWk2 |
| Pass | Referral or Deferral | June CWK2 template | Individual |
| Deferral or Referral | Pass | June CWK1 template | Individual |
| Referral or Deferral | Referral or Deferral | June CWK1 & CWK2 templates | Individual |

**Coursework description**

**This is an individual piece of work**. You will work on your own to implement a subset of the GP surgery application given during semester 2. You need to develop a stand-alone application, making use of the knowledge you have gained in the level 4 and level 5 modules, and the 5COSC021W module. You also need to use the vaccines.db database given on BB. The system should have the following functionalities/requirements:

1. There should be two databases, one is the vaccines database initially given, and one is the GP database that should include the details of the patients, doctors. The GP database should also include a personal table record with patient details (address etc), a medical record for each patient that will reflect that of the information on the vaccines.db database (regarded as the central NHS database). The GP database should have preloaded information on doctors (username, password, status)
2. The application should be able to register patients that have valid NHS number in the vaccines.db database. During registration the patients should provide their mobile phone and address. Once registered patients should be able to login.
3. The application should allow registered patients, and doctors (the doctors preloaded in the database) to login.
4. The application should allow patients to view (not update) their personal record after login.
5. The application should allow doctors to view the medical information for all patients registered in the GP surgery, after login.

Depending on whether you have to work on CWK1 or CWK2 or both CWK1 & CWK2 you need to design (CWK1) and implement (CWK2)

For CWK 1:

* Model the data for the GP database and the vaccines database using logical ERD diagrams.
  + design the UML use cases diagram for your application and use case scenarios (based on the requirements given above)
  + Design the UML activity diagram for your application (based on the requirements given above)
  + Design a front
  + Design a front-end to register the patient.
  + design a front-end to login (the patient and the doctor) to the application.
  + Design a front-end for each patient to access and view their own patient information (not update)
  + Design a front-end for the doctor to access and read the information of all patients from vaccines database (not to update the record, only view)
  + Design a front-end to logout.
  + For full marks you need to use the gov-uk design as in the original cwk. However, not using the gov-uk design will not by itself fail the assessment, however, some marks will be lost (check rubric for details)
  + Discuss your time-management for the referred/deferred cwk. **Support your statements with specific examples on how you manage your time in order to complete the referral/deferral cwk1 specifically.**
  + Discuss the version control you adopted for your documents while working on your deferral/referral cwk1. **Support your statements with examples specific to the deferral/referral cwk 1 work.**

For CWK 2:

* + Create SQLite database tables that will support your application for the above functionalities.
  + Implement the front-ends of the application to meet the functionalities above, using either html, JavaScript, or ReactJS.
  + For full marks implement the back-end of the application using php or node.js. If for some reason you cannot connect to the database use local client storage where possible. Some marks will be lost, see rubrics for details. When filling in the template make sure that you explain which method you used.
  + For full marks you need to use the gov-uk design either through React components, or using html files (import or design similar). Using a different design does not mean that you will fail the cwk, however some marks will be lost (check the rubric for details).
  + Do not use typescript or other libraries such as axios.
  + You need to discuss the HCI graphical interface, security issues, and legal and ethical issues related to your implementation. These elements need to include a critical discussion related to the application, not a textbook description of the issues found in references.
  + Discuss issues related to the quality of your code including output of test plan, maintainability and version control for coursework 2. **Provide examples from your code to support your statements.**
  + You can use code provided by the lecturers, but **you cannot use any code from your team members – this is an individual piece of work**.
  + **If you are deferred/referred in CWK2 ONLY (not both CWK1 & CWK2), you can use design elements from your group CWK1**

### Marking schemes

### Coursework 1 marking scheme

The Coursework will be marked based on the following marking criteria:

|  |  |  |  |
| --- | --- | --- | --- |
| Criteria | Marks per component | Marks provided | Comments |
| Logical ERD | | | |
| Accuracy and completeness of model (it should not have mistakes; it should not have data missed) | 15 |  |  |
| **User interaction design** | | | |
| Story boards (wireframe and mock up) | 15 |  |  |
| UML diagrams | | | |
| Use case diagrams | 15 |  |  |
| Activity diagrams | 20 |  |  |
| Use case test plans |  |  |  |
| Use case test plans | 15 |  |  |
| Time management and documentation version control | | | |
| Your reflection on the time for coursework 1, discussing both good examples and areas for improvement | 10 |  |  |
| Your reflection on your documents version control, discussing both good examples and areas for improvement | 10 |  |  |
| **Total** | **100** |  |  |

### Coursework 2 marking scheme

The Coursework will be marked based on the following marking criteria:

|  |  |  |  |
| --- | --- | --- | --- |
| Criteria | Mark per component | Mark provided | Comments |
| Code | | | |
| Code functionality | 30 |  |  |
| Code quality - maintainability | 10 |  |  |
| Code quality – version control | 10 |  |  |
| Code quality – output of test plans | 10 |  |  |
| Human Computer Interaction | | | |
| Your list of HCI issues you have addressed (and how you addressed them) and any HCI issues still remaining; | 10 |  |  |
| Security risks | | | |
| Your list of security risks you have addressed (and how you addressed them) and any security risks still remaining; | 10 |  |  |
| Professional conduct – Legal and Ethical | | | |
| Legal constraints and how you will manage them, as appropriate for the problem domain, supported by appropriate research | 10 |  |  |
| Ethical constraints and how you will manage them, as appropriate for the problem domain, supported by appropriate research | 10 |  |  |
| **Total** | **100** |  |  |

**Submission of courseworks and demonstrations**

**By the deadline of 1pm on Thursday 6th of July** you need to **upload** your coursework (your **completed templates**) on Blackboard using the refer/defer links on the 5COSC021W BB site. You should use the referral/deferral templates for CWK 1 and CWK 2. The templates can be found under referral/deferral assessment information.

**For coursework 2**, you must also upload, **by the same deadline 1pm on Thursday 6th of July**, a zip file containing all your source. This needs to be submitted using the REFER/DEFER Zip link under 'Submit Coursework'. **If the code is not submitted your coursework 2 will receive 0%.**

**Upload Demos**: **For CWK2**: By **1pm Thursday 6th July** you need to upload a video with your work in the google folder- link to be given in the assessment folder. Your video (with voice) should demonstrate either your working application and talking through your code, or only talking through your code if your application doesn’t run**. If a video is not uploaded your mark will be capped to 30%.** Tutors may contact you further via email to clarify any queries or for on-line demo if required.

## Regulations

### Assessment regulations

Refer to part 3 of the Academic Regulations for a clarification of how you are assessed, penalties and late submissions, what constitutes plagiarism, etc.

### Penalty for Late Submission

If students submit coursework late but within 24 hours of the published deadline, the work will be marked and will have ten percentage points of the overall available marks deducted, to a minimum of the pass mark (40% at undergraduate level). If students submit coursework more than 24 hours after the specified deadline, a mark of zero will be awarded for the work in question – unless a claim of Mitigating Circumstances has been submitted and accepted as valid.

For more detailed information regarding University Assessment Regulations, please refer to the following website:  
<http://www.westminster.ac.uk/study/current-students/resources/academic-regulations>