Assessed Coursework

Course Name	Web Application Development 2				
Coursework Number	2 (of 5) – Design Specification				
Deadline	**Time:**	6.30pm	**Date:**	22 February 2019	
% Contribution to final course mark	10		This should take at most this many hours:		5
Solo or Group ✓	Solo		Group	✓	
Submission Instructions	Via Moodle – see Page 2				
Who Will Mark This? ✓	Lecturer		Tutor ✓		Other
Feedback Type? ✓	Written ✓		Oral		Both
Individual or Generic? ✓	Generic		Individual ✓		Both
Other Feedback Notes					
Please Note: This Coursework cannot be Re-Done					

Code of Assessment Rules for Coursework Submission

Deadlines for the submission of coursework which is to be formally assessed will be published in course documentation, and work which is submitted later than the deadline will be subject to penalty as set out below. The primary grade and secondary band awarded for coursework which is submitted after the published deadline will be calculated as follows:

   (i)   in respect of work submitted not more than five working days after the deadline
         a.   the work will be assessed in the usual way;
         b.   the primary grade and secondary band so determined will then be reduced by two secondary bands for each working day (or part of a working day) the work was submitted late.
   (ii)   work submitted more than five working days after the deadline will be awarded Grade H.

Penalties for late submission of coursework will not be imposed if good cause is established for the late submission. You should submit documents supporting good cause via MyCampus.

Penalty for non-adherence to Submission Instructions is 2 bands

Marking Criteria
See Page 3

Web Application Development 2

Design Specification (10%)

Introduction

Having discussed your Project ideas within your team, you are required to come up with a Design Specification, which will provide a whole range of details regarding the design of the web application that you intend to implement. This will include an overview, user personas, a specification (list of requirements), system architecture diagram, ER diagram, wireframes and a site walkthrough.

The Design Specification is worth 10% of the overall assessment of the course and is due in by **Friday 22 February at 6.30pm**. One submission per team is required. Your Design Specification should comprise a pdf document; to produce this, PowerPoint is recommended, though this is not mandatory.

What should be included

Your design specification should include the following:

1. an **overview** of the application (i.e., what it is meant to do) – 1 slide;
2. **user personas** for the application – 2 or 3 slides;
3. the **specification** i.e. the minimal list of requirements – 1 slide;
4. a high-level **system architecture diagram** – 1 slide;
5. an **ER Diagram** (*this must be in compressed Chen notation*), along with a description of the attributes (with their data types) for each entity – 1 slide;
6. a number of **wireframes** to show the main functionality of the system – at least 2 and at most 5 slides;
7. a **walkthrough** of the main features, in the form of a site map and site URLs – 2 slides.

Think about how you might divide these tasks up among the team members. The reason for suggesting that the document be arranged in terms of a slideshow presentation is that during the final week of semester, you will be giving a presentation and demonstration of your project within your team (worth 5% of the overall mark). It is expected that you will use some of the slides that you create as part of your Design Specification for your presentation.

How to submit

One member of the team should submit the pdf document via the "Design Specification" submission icon on the Moodle page for the course. Just one submission per team is required. The person making the submission will be required to complete a Declaration of Originality on behalf of all team members when submitting via Moodle. If you have used any external sources, be sure to acknowledge them in your submission. For reference, the School's plagiarism policy is contained in Appendix A of the Undergraduate Class Guide.

Useful resources

The following guides might be useful in connection with developing User Personas:
http://www.steptwo.com.au/papers/kmc_personas/
http://www.romanpichler.com/blog/persona-template-for-agile-product-management/
http://www.romanpichler.com/blog/10-persona-tips-agile-product-management/

See also this guide for developing wireframes:

http://webdesign.tutsplus.com/articles/a-beginners-guide-to-wireframing--webdesign-7399

There are a number of applications that might be helpful when it comes to creating your system architecture diagram, ER diagram and wireframes, including http://www.draw.io.

Marking scheme

Your design specification will be assessed using the following breakdown of marks:

Component and description of what is sought	Marks
Overview Contains sufficient detail so that the reader can understand what the web app is supposed to do.	3
User personas One description for each type of user – each should convey background about the user and in particular what they want to do.	3
Specification The list of requirements should be sufficiently detailed for it to be clear how the web app will fulfil the needs of the intended users.	3
System architecture diagram This high-level diagram should include the different components of the system and in particular any additional APIs from external services that might be used.	2
ER Diagram The model should be relevant and appropriate in the context of the specification. The diagram should adhere to compressed Chen notation and should give data types for the attributes in the separate tables.	3
Wireframes The wireframes should include login functionality and context. There should be a sufficient number to illustrate the functionality provided by the app as indicated by the specification.	4
Walkthrough This should be presented in the form of a site map and a list of site URLs which make it clear how the different templates of the app are named and linked together.	2
Total	**20**

The total mark will be converted to a band which will be the team's mark for this component of the assessment.