XJCO2011 Web Application Development

Coursework 1 alternative submission

Preliminaries

This coursework is an alternative submission for coursework 1. The coursework has a total of **40** marks available. You need a passing grade in this coursework and the mark will be capped at **40%**. The deliverable of this piece of coursework is a complete web site implementing the specification outlined below. The files should be compliant to HTML5 and CSS3 standards.

Requirements

Take care in reading the specification. You will be penalised if you fail to meet any of the requirements.

- All pages must conform to the HTML5 standard.

- All style sheets must conform to CSS3 standards.

- All styling should be done in a separate style sheet.

- You must not use any editor which assists in the creation of web pages, i.e. dreamweaver and similar are not permitted.

- Your coursework solution must utilise the Flask web framework.

- All images or text used in the deliverable should be appropriately referenced and permission from copyright holder should be obtained if you are using images. It is recommended that you use CC-licensed images.

- Appropriately style the web application. For advanced: use Bootstrap within a template to style the web application.

Specification

You should design and implement a web application which implements a personal assessment to-do list. Each item should contain;

- a deadline date

- a module code

- an assessment title

- a description

- whether the assessment is completed or not

Your web application should:

- utilise a database to store the list of assessments.

- implement a feature that permits a user to add an assessment to the list.

- implement a feature to mark an assessment as complete.

- implement a feature which allows for the display of all uncompleted assessments in the list.

- implement a feature which allows for the display of all completed assessments.

- appropriately style the web application.

Final deliverables

You should submit the following;

- A zip file containing **all resources** required to run the web application.

  [24 marks]

- A design document in **pdf** format, containing the following:

  - a wireframe model of each page layout. (multiple wireframe models can be displayed on one page of the design document)
  - a description justifying your choice of layout.
  - a description of the three tier architecture and the implemented flask architecture including any models implemented.
  - a description of request handling and HTTP features relating to the web application.
  - an evaluation of the web application, incorporating the importance of testing and debugging.
  - a description considering security.
  - explain how you could include accessibility in the web application.
  - any references that are required for the content you have used.

  The document should be no more than **8 pages** in length, it can be shorter. Please see the markscheme for more details.

  [16 marks]

Submission

Your files must be submitted as a Zip archive. No other format will be accepted.

Your solution should be submitted via the Blackboard VLE before the deadline. All submissions will be submitted to plagiarism detection software.

Submission date: 12:00 18th October 2021