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**Department of Business and Digital Technologies**

BCDE224 Best Programming Practices (Server-Side Programming - PHP)

Assessment Two Practical Assessment 2

Semester Two 2022

Due date: Friday, 30 September 2022

Time: 5:00pm

Student Name/ ID ..........................................................................................................

*This is an individual assessment. Ara and its division members reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that when submitting this assessment, it may be subject to submission for textual similarity review to Turnitin.com.*

Submissions received late will be subject to a penalty of 10% of the student’s mark per working day.

This assessment is worth 25% of the total marks for this course. This paper has four (4) pages including the cover sheet.

Plan, design, code, and write tests for the first iteration of a solution (a proof of concept) for a specified problem domain. The implementation of the solution will be assessed by peer review.

PowerPoint presentation with pictures (AND optional audio commentary/voice over) and code (Html, SQL and CSS)

## Task

Present a DESIGN for a PHP program which supports an E-Commerce portal with the following features and personas.

Graphical user interface, text, application, Word, email

Description automatically generated

A picture containing table

Description automatically generated

## Idea generation Phase:

Produce one Wireframe, for the e-commerce portal that

[2 marks]

## Deliverables:

30+ PowerPoint slides

The following requirement documents are required:

* 3 Behat FEATURE requirements, each for a different user, and each with 2 SCENARIOS

[6 marks]

* Mock (hard-coded html) forms

[5 marks]

* Entity Relationship Diagram [ 1 mark]

**SQL – Database creation and Queries**

o Make the database

[2 marks]

o Insert sample data

[1 mark]

o Insert/Add/ Update query

[1 mark]

o Simple query (1-2 tables)

[1 mark]

o Complex query (>2 tables, joins, sort, one other functions)

[2 marks]

o Create a search query

[2 marks]

* Class Diagram (see provided interfaces)

[2 marks]

Your presentation will need to make the case that you have FULL requirements suitable for implementation as a Server-side PHP program.

## Useful Links:

<http://behat.org/en/latest/quick_start.html#example>

1. Example Behat Feature Requirements

**Feature: Add a new post in the forum**

To add new posts

As a non-member **visitor** of the webpage, I need to sign-up for the social network membership.

**Scenario1:** As a non-member of the community, when I visit the webpage, I must be able to view the posts that

other members have posted in the forum.

I can also see the date it was posted and the username of the member who posted it.

**Scenario2:** As a non-member of the community, I must be able to filter all the posts based on the date that

they were posted. I can also view all the comments under the posts.

2. Example Behat Feature Requirements

**Feature:** Add new post in the forum

To add new posts

As a logged-in **member**,

I need to go to the forum section and click the button, “Add New Post”.

**Scenario1:** As a logged-in member, I should be able to view posts that other members have posted in the forum. I can also add comments in their posts and join the forum discussion.

**Scenario2:** As a logged-in member, I can add new posts in the forum section. I can also view all my previous posts and edit or delete them. I can also comment or reply to comments on my own post.

3. Example Behat Feature Requirements

**Feature:** Add new post in the forum

To add new post

As a logged-in **admin** of the social network,

I need to go to the forum section and click the button “Add New Post”.

**Scenario1:** As a logged-in admin, I must be able to view all the posts and comments that other members have posted in the forum. I can also add posts and comments in the forum section. I can also delete posts that do not conform with the social network policy.

**Scenario2:** As a logged-in admin, I can delete, edit, update and add new content for the social network community.