

COMP.6210

Web Services & Design Methodologies

PHP Backend Implementation

Assignment 2 – Semester 2 2019

Due Date: Thursday 31st October 2019 at 5.00 p.m.

Weighting: 40%

Marks: 160 marks

Aim:

The aim is to design and build a dynamic database driven website using a number of web development languages

Learning outcomes covered:

3. Create and utilise one or more web services.
4. Write a web application that utilises an external web service

Notes:

This is an individual assignment and must be the product of your own work. Students are reminded to read pages related to assessment rules including rules for dishonest work in the Toi Ohomai Student Guide.

You are to upload the content of your web root folder to the GitHub classroom link.

- Any libraries or frameworks should not be part of the submission, but included in an package.json file or linked from an external resource.
- You should also include a complete SQL file an export from PHPMyAdmin that includes any additional test data that you created. The structure of the database should not be different than that from the first assignment.

PART A - Connecting the database and generating the queries in PHP models. (30% Marks)

For this part you are to create the Models (MVC) that you require for your website. The database must connect properly to your project and you must be able to query the database and return data from it using PHP.

You are to create the functions for all of the features that you require.

PART B - Implementing the MVC model, create the controllers (MVC) and the Views (MVC) (40% Marks)

For this part you are to create controllers that create the endpoints of your web service API. Each endpoint should be clearly named to indicate what its purpose is. (e.g. /pages/showAllMessages or /contact/submitForm)

For the Views you are to use the HTML and CSS files from Assignment 1. You are to strip all the content from the files and use JavaScript to pull in the data from your PHP files. You can use ajax calls or the fetch api to do so.

PART C - Testing, deploying and creating documentation for your project to deliver to your client. (30% Marks)

For this part you are to test your website. Make sure you are able to set it up on a different machine and write the instructions a user would need to set it up.

You must then find another classmate who will test it by setting up your project.

The process must be signed off.

For part C you must also keep the regular meetings with your tutor and keep track of any difficulties you may have.