Department of Computing

Bachelor of Information and Communication Technologies Graduate Diploma of Information and Communication Technologies

BCPR280 Software Engineering 2

Assignment Two Programming Assignment

Semester One 2019

Due date: Friday 7 June 2019

Time: 5.00pm

Student Name/ID

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

This assignment is worth 25% of the total marks for BCPR280. This paper has two (2) pages including the cover sheet.



This is individual assessment.

Please submit ALL DOCUMENTS AND CODE as a single .zip file to the Moodle drop box by the deadline above.

This assessment will be marked out of 100 and is worth 25% of the final course grade.

ALL THE ASSESSMENT MARKS ARE FOR COMPLETING THESE TASKS

• Write a program that calculates the correlation of two arrays of numbers

[20 marks]

• Adapt / extend the first program to calculate the regression of two arrays of numbers.

[20 Marks, but deductions for DUPLICATE CODE]

• Provide a user interface with Vuejs

[10 marks]

Provide a user interface with Reactjs

[10 marks]

Provide a user interface with Nodejs

[10 marks]

• Enhance the user interface with Bootstrap css

[10 marks]

• Create a command line application for Nodejs that reads and write to file

[10 marks]

• Create a RESTful web service for Nodejs that return JSON data

[10 marks]

Provide Jasminejs unit tests

[10 marks]

• Provide Cucumberis unit tests

[10 marks]

NOTE: There are 120 marks of tasks. Pick up to 100 marks from the list.

There are NIL marks for the following, but it will be useful for the final 50% assessment.

- 1. A plan for the work for each iteration
- 2. A design level class diagram for each task.
- 3. A plan for how the program feature you are working on will work.
- 4. A test plan and a test report
- 5. Proof the program works and passes standardJS validation
- 6. Error logs
- 7. Project Summary Sheets and Process Improvement Proposals