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 Two 2018

Due date: Friday 2 November 2018

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.

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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 Cucumberjs 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