**Computing: Software Development: Graded Unit 2**

**Stage 2 – Development** (Submission requirements)

This stage involves you developing a prototype application that captures the Use Cases decided upon within the planning stage. You are required to:

* **Develop the business model**

You should implement and test the business model you have designed in the solution planning stage. This may well also involve updating the business model design to reflect any errors you have encountered. Remember, you only need to develop the parts of the business model required for the prototype application identified at the end of the inception phase planning.

* **Develop the view model**

You should implement and test the view model (HCI for the prototype application) you have designed in the solution planning. This may well also involve updating the view model design to reflect any feedback you might have obtained from the client or potential users. The binding used to link the view model to the business model should be clearly identifiable.

During the implementation of both the business model and view model, you should ensure that the internal documentation abides by an appropriate standard and that you document the test strategy, test plans and test runs used to test both the business and view model.

You should ensure that you document the sources you have used to research the use of unfamiliar libraries and/or constructs.

You will be required to submit an electronic version of the working application and a portfolio of evidence that includes the following:

* + - Production of application (up to 25 marks for the production) you should include:
      * Business Model Code Listings — up to 5 marks for the implementation of the problem domain.
      * View Model Code Listings — up to 5 for marks for the implementation of the UI domain.
      * Use of unfamiliar libraries and/or constructs — up to 5 marks for the appropriate use of libraries and/or constructs which have been introduced through your own self-research.
      * Error handling up to five marks for coding error handling and/or error prevention e.g. uses of exceptions, and/or validation methods.
      * Internal Documentation — up to 5 marks for the use of appropriate standard documentation, naming conventions and appropriate use of indentation.
* Testing — up to 10 marks
* Test plan — up to 5 marks for a report highlighting the strategy you adopted and how you designed your test plan and test cases. This may include the development of test harnesses.
* Test runs — up to 5 marks for running, documenting and evaluating test runs.
  + - * Documentation – up to 5 marks
* User documentation which may also include online help features

The evidence may be recorded using appropriate techniques such as software, screenshots, listings, logbooks (electronic, manual or both), work diaries, reports, etc.

You should have successfully completed (obtained a minimum of 50% of the available marks) the development stage before progressing to the evaluation stage.

**Deadline for Stage 2: Developing - Friday 30st of March 2018 @4:00pm**