BTEC

OAKLANDS COLLEGE

Assignment Brief

Qualification	BTEC Extended National Diploma in IT
Unit number and title	Unit 14 Event Driven Programming
Learning aim(s) (For NQF only)	3. Be able to design event driven applications 4. Be able to implement event driven applications
Assignment title	Assessment 2: Event Driven Applications
Assessor	
Hand out date	w/b 6th Nov 2017
Hand in deadline	w/b 27th Nov 2017

Vocational Scenario or Context	You are working for "Lets Train U", a training organisation that provides training in its own training centres, on customer's sites and as an on-line resource. You have been given the job of producing an example small application that could be used as suitable training example for an introductory course in event driven programming. The example chosen must all be event driven and cover the following topics • Input, output, Sequence, selection and iteration • Declaring variables, the scope of variables • Data types, data validation and error handling • Code layout, indentation, comments and good use of names • Event handling and other procedures or functions

Task 1	1. Create a use case diagram that summarises the functionality of the application based on the supplied user requirements. 2. Create a class diagram that contains appropriate classes, attributes and methods 3. Fully document the classes, attributes and methods 4. Generate skeleton code from the classes and the supporting API technical documentation 5. Get your line manager (your tutor) to approve the completed designs as meeting the specified requirements

Checklist of evidence required	**P3:** A document or Visual Paradigm report for the application design that contains • Use Case Diagram • Class Diagram **M4**: API Documentation, documented skeleton code or a documented Visual Paradigm report

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
P3	Design an event driven application to meet defined requirements
M4	Create technical documentation for the support and maintenance of a computer program

Task 2	Implement the completed design (**P4**) in the agreed programming language, and thoroughly test it using black box tests or test driven development (**P5**). Test logs should be a table containing the purpose of the test, the data entered, the expected result, the actual result and comments on discrepancies. Make sure that the application displays instructions on the screen to aid users of the program (**P6**). Show the completed application to your manager and get it signed off. Analyse the actual test results against expected results to identify any issues, and suggest ways in which those issues could be resolved (**M3**). Evaluate the completed application and discuss the alternative ways it could have been designed or implemented, and the ways in which it can be improved or extended (**D2**)
Checklist of evidence required	Full formatted code listings and a document with • **P5:** Completed Test Log or Test Code. • **P4:** Screen shots of the application in action. • **P6:** Screen shots of on screen help • **M3:** Log of test results with analysis of discrepancies. • **D2:** Evaluation of the application with suggested improvements

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
P4	Implement a working event driven application to meet defined requirements
P5	Test an event driven application
P6	Create onscreen help to assist the users of a computer program
M3	Analyse actual test results against expected results to identify discrepancies
D2	Evaluate an event driven application