

Project Assessment

Criteria

Unit code	, name	and re	elease	number
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ICTPRG403 Develop data-driven applications
ICTPRG410 Build a user interface
ICTPRG404 Test applications

Qualification/Course code, name and release number

Certificate IV Programming

Student details

Student number

Student name

Assessment Declaration

- This assessment is my original work and no part of it has been copied from any other source except where due acknowledgement is made.
- No part of this assessment has been written for me by any other person except where such collaboration has been authorised by the assessor concerned.
- I understand that plagiarism is the presentation of the work, idea or creation of another person as though it is your own. Plagiarism occurs when the origin of the material used is not appropriately cited. No part of this assessment is plagiarised.

Student signature and Date



Version: 1.0

Date created: 2 August 2018

Date modified: 28/10/2019

For queries, please contact:

SkillsPoint

Location

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This assessment can be found in the: Learning Bank

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Document title: Unit Code_AE_Pro_1of3_20191025 Resource ID:



Assessment instructions

Table 1 Assessment instructions

Assessment details	Instructions	
Assessment overview	The objective of this assessment is to assess your knowledge and performance as would be required to complete several tasks involving basic UI design structure that is provided to you as a prototype. You may also use your own design or templates. The focus of this assignment is your development of a data driven application applying the separation of concerns design principle. You are also required to integrate unit testing in your solution.	
Assessment Event number	1 of 3	
Instructions for this assessment	This is a project based assessment and will be assessing you on your knowledge and performance of the unit. For this project, you will create a "tracking employee work hours" application that provides a company manager with access to the following system functions: 1. Ability to add a new employee to the system 2. Ability to find all employees 3. Ability to record employee's working hours in a daily bases This assessment is in 4 parts: 1. Database design and implementation 2. Coding	
	3. Unit Testing4. Assessment Feedback	



Assessment details	Instructions
Submission instructions	On completion of this assessment, you are required to submit the whole projects (solution folder) and SQL script (schema and data) in class to your assessor for marking. You will need to demonstrate your project to the teacher during class time to get continuous feedback as you progress. Ensure you have written your name at the bottom of each page of this assessment. It is important that you keep a copy of all electronic and hardcopy assessments submitted to TAFE and complete the assessment declaration when submitting the assessment.
What do I need to do to achieve a satisfactory result?	To achieve a satisfactory result for this assessment all questions must be completed correctly.
What do I need to provide?	Home computer: Visual Studio & SQL Server, USB stick, Pen, and Papers
What the assessor will provide?	Computer lab: Visual Studio & SQL Server, Notes, Class examples
Due date and time allowed	Monday 25 November 2019
Assessment feedback, review or appeals	Appeals are addressed in accordance with Every Students Guide to Assessment.

Specific task instructions

The instructions and the criteria in the tasks and activities below will be used by the assessor to determine whether the tasks and activities have been satisfactorily completed. Use these instructions and criteria to ensure you demonstrate the required knowledge.

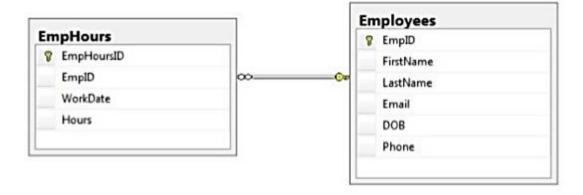


Part 1: Database design and implementation

To complete this part of the assessment, you will be required to use Microsoft SQL Server to do the following:

- 1- Create the database
- 2- Create all tables
- 3- Insert sample data to each table (5 records at least in each table)
- 4- Create the following stored procedures:
 - a. Insert employee
 - b. Update employee
 - c. Insert Employee hours (insert record to EmpHours table)
 - d. Select employee by EmpID
 - e. Select employee by email
 - f. Select all employees
 - g. Select employee work date and hours by EmpID

Once completed you will need to seek feedback from the teacher before proceeding to the next task.

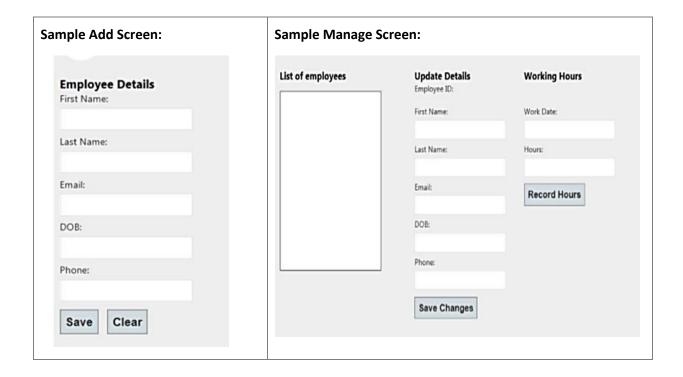




Part 2: Coding

To complete this part of the assessment, you will be required to develop a data driven application by applying separation of concerns design principle.

- 1. Create a solution in Visual Studio and name it (ETS) (stands for Employees Tracking System).
- 2. Add four projects to the solution:
 - View Project: a project of type (Windows Forms Application) and name it (ETS.View)
 - Entity Project: a project of type (Class Library) and name it (ETS.Entity)
 - Business Logic Project: a project of type (Class Library) and name it (ETS.Logic)
 - Data Access Project: a project of type (Class Library) and name it (ETS.Data)
- 3. Implement the following user stories:
 - a. Ability to add a new employee to the system
 - b. Ability to find all employees
 - c. Ability to record employee's working hours in a daily bases





Part 3: Unit Testing

To complete this part of the assessment, you will be required to integrate unit test project into the solution. You must include the following:

- A Unit Test Class containing at least six Unit Test Methods
- Each test method is to verify the correctness of one method in the Logic project
- Test methods must be runnable and produce a result
- Proper test data must be used in testing in order to verify the correctness of test method under test



Part 4: Assessment Feedback

NOTE: This section <u>must</u> have the assessor signature and student signature to complete the feedback.

Assessment outcome
☐ Satisfactory
☐ Unsatisfactory
Assessor Feedback
☐ Was the assessment event successfully completed?
\square If no, was the resubmission/re-assessment successfully completed?
\square Was reasonable adjustment in place for this assessment event?
If yes, ensure it is detailed on the assessment document.
Comments:
Assessor name, signature and date:
Assessor name, signature and date:
Assessor name, signature and date:
Assessor name, signature and date: Student acknowledgement of assessment outcome
Student acknowledgement of assessment outcome
Student acknowledgement of assessment outcome
Student acknowledgement of assessment outcome Would you like to make any comments about this assessment?

NOTE: Make sure you have written your name at the bottom of each page of your submission before attaching the cover sheet and submitting to your assessor for marking.