

iPhone Applications - Practice Task for Unit B065

Coding a solution and practical applications in ICT

Task

A travel company wants you to develop a simple iPhone application to help people with simple phrases when they travel abroad.

You need to:

- work with others to carry out an investigation to assess the value of apps which you feel appeal
- the investigate the target audience
- clearly record and display your findings
- recommend a design which will provide a suitable solution
- produce a list of success criteria you feel your solution will need to meet for your target audience and purpose
- produce a plan with recommended timescales for your solution
- produce your application
- review and evaluate your solution.

Teacher guidance

In order to meet the assessment criteria candidates need to

- use the internet to research existing solutions to the same or similar problems.
- identify the best and worst aspects of their identified solutions.
- identify what information they will need to complete a solution.
- identify how they will assess if their solution was successful (success criteria).
- complete a problem analysis
- focus on what is important and what are the most appropriate aspects in existing solutions. The purpose is to arrive at measurable success criteria and realistic hardware and software requirements.

The analysis should contain well-focused research results, realistic information requirements for the chosen problem, sensible hardware and software choices, measurable success criteria and a realistic time plan for completing the development of a solution.

Candidates must:

- summarise the scenario
- list existing solutions
- list the key features that make a good solution
- list the features that make the solutions appealing to the target audience:
- identify any resources they would use as part of your solution
- list any resources they would have to create to complete their solution
- list, with reasons, what software they will need to complete the solution:
- list, with reasons, what hardware they will need to complete their solution
- explain how they will know they have been successful when creating their own solution to

the problem:

Candidates should:

- develop a storyboard or navigation path
- design suitable algorithms for their proposed code

They will also need to describe input and output formats and screen layouts.

They will need to identify a suitable test strategy showing how they plan to prove that the designed system meets the success criteria from the analysis.

- they should plan some in-development (white box alpha) testing to check the system during development for basic functionality.
- they should plan some post-development (black box alpha) testing to make sure the complete system functions as expected.

Testing should cover (if appropriate) normal, abnormal and borderline testing but candidates should be aware of when these test situations are not appropriate, for example it may not be possible to enter abnormal data.

Candidates must list the success criteria from the analysis and highlight them as they are covered by the design elements below.

- identify images, sound clips, animations etc that they downloaded from the internet and list their URLs here.
- identify any images, sound clips, animations etc they create.

They may find other skills of value in completing the assessment or realise that they had not identified suitable skills or even that there are better approaches; this is all useful.

The important point of this task is to carry out a skills assessment for a proposed solution to identify what is required and, more importantly, how these skills can be acquired. They should aim to design a solution that is fit for purpose and acquire the necessary skills to complete this rather than limit their solutions to existing skills and knowledge.

The assessment of this unit of work should reflect how candidates apply themselves to skills acquisition and apply suitable techniques to problem solving.

Candidates should:

- plan to check the system during development for basic functionality. They will need to use suitable test data and show that the designed system meets the success criteria from the analysis.
- identify what tests the potential end user might perform to check that the system performs as required.
- show how the chosen test data relates to the success criteria they identified in the analysis and design sections