

T Level Technical Qualification in Digital Software Development (Level 3)

Specimen Assessment Material

Time 20 hours

**Paper
reference**

XXXXXX/XX

**Occupational Specialism: Digital
Software Development**

TASK 2: Developing the solution

Task Booklet

You must have:

Task2_TOKA_TestLog.docx

Task2_TOKA_ChangeSourceLog.docx

Information

- The total mark for this set task is 48.
- This booklet contains material for the completion of the set task under supervised conditions.
- This booklet is specific to each series and this material must only be issued to students who have been entered to undertake the task in the relevant series.
- This booklet must be kept securely until the start of the 2-week assessment window.

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Version 1
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Instructions for Students

You must complete ALL activities within the assessment.

Read the assessment information carefully.

You must plan your time and submit all required evidence at the end of the supervised period.

The task must be undertaken at the time and on the date specified by Pearson.

You will be given **20 hours** for producing the outcomes for this task.

Your provider will advise you of when any supervised breaks have been scheduled.

The task must be completed under supervised conditions.

You are allowed monitored access to the internet during the scheduled supervised sessions.

During this task you are **not** permitted to use AI or any other tool designed to automate producing a complete digital solution.

However, you are permitted to use AI tools to:

- generate small sections of code to solve specific problems that can be integrated into a larger solution
- automatically test and debug code you have produced.

Files provided for use during this activity:

- Task2_TOKA_TestLog.docx
- Task2_TOKA_ChangeSourceLog.docx

Your work and any material provided must be kept securely at all times.

Task 2 Brief

Your manager has approved you to move into the stage of developing your solution and has asked you to produce a prototype of the solution you have designed.

To help you develop a functional prototype, your manager has told you to refer to the information provided in the brief for Task 1 (reproduced here).

You may draw on your proposal and designs from Task 1, but if you choose to you can use a new proposal and designs.

Task 1 Brief (*copied from Task 1*)

ToKa Fitness currently provides customers with:

- personal training sessions
- advice about fitness training
- advice about healthy living.

The client (the owner of ToKa Fitness) would like to develop a digital solution that will:

- provide information and advice about fitness training and healthy living
- provide access to digital content to support customers with their training and healthy lifestyle
- encourage existing customers to use more of the services provided by ToKa Fitness.

The client has carried out some market research to identify features that their existing customers would like included in a digital solution. The features the existing customers identified are:

- free and paid-for content
- accessibility features for users with sight loss
- 'social' features
- customisable workout and eating plans.

Activities

Activity A – Developing the Solution (Suggested Time: 12.5 Hours)

Develop a functional prototype of your proposed digital solution to meet the client's needs.

During this activity you may use the designs you generated in Task 1 to help inform the development of your prototype.

You are not restricted to the designs produced in Task 1 and you may develop a prototype that expands and improves upon your original design.

During development make sure that you:

- address front-end and back-end processes
- implement code in at least **two** appropriate programming languages
- gather and prepare any additional assets required to develop your digital solution
- make appropriate use of the code generated by AI in Task 1
- produce code that is maintainable by a third party
- ensure a high-quality user experience
- follow legal and regulatory guidelines.

(30)

Activity B – Documenting the Development Process (Suggested Time: 7.5 Hours)

During development you should document key aspects of the development process.

You are provided with these templates to help you document the development process:

- Task2_TOKA_TestLog.docx
- Task2_TOKA_ChangeSourceLog.docx

You should include:

- a record of how content and code produced by others (including generative AI) have been used in the solution
- how you used testing methods to ensure the solution met identified requirements
- notable changes and improvements, including:
 - a change log of notable development milestones
 - improvements and iterations made as a result of testing and debugging.

(18)

(Total for Task 2 = 48 marks)

Outcomes for Submission

1. Prototype

Save copies of your prototype in formats that show the front-end, back-end and internal workings of your solution, including copies of key versions of:

- exported/packaged/working functional prototype as appropriate to your chosen languages
- the source code for the functional prototype
- a screencast demonstrating the front-end and back-end functionality of the final version of your prototype.

Use any sensible folder structure and naming convention.

2. Development documentation

Save your completed change and source log as a PDF in your folder for submission. Use this naming convention:

- Task2_ChangeSource_log_[Registration number]_[surname]_[first letter of first name]

3. Test log

Save your completed test log as a PDF file in your folder for submission. Use this naming convention:

- Task2_TestLog_[Registration number]_[surname]_[first letter of first name]

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