BOOKLET

00SR - DEVELOP NATIVE APPLICATIONS WITHOUT A DATABASE

NAME

DATE

CONTENT SPECIALIST

VANIER
CÉGEP/COLLEGE
Continuing Education

cé gep RAC • recognition of acquired competencies

Based on your work experience, you will have to submit documents that demonstrate your ability to develop and ensure the quality of a web application (minimum of 15 classes and 10 tables) for a connected object (e.g., desktop computers smart phones, tablets).

You may submit documents that were previously created in the workplace if they comply with the requirements described below. Your contribution to the development of these documents must have been significant.

Before submitting these documents, you will have to discuss them with your content specialist, who will determine their relevance and, if necessary, indicate the sections to be completed.

If actual situations do not enable the evaluation of this group (e.g., confidentiality of information, access to documents, experience gained outside the country), **the content specialist will provide you with scenarios with which to carry out the evaluation.**

◯ Evaluation
◯ Re-evaluation
◯ Computer
◯ Internet
◯ Calculator
◯ Dictionary

Software Development
Secure Desktop, Mobile and
Web Applications

AEC LEA.8F

Task 1: (00SR-1 to 00SR-6)

*Based on the **design documents**, you will have to:*
- analyze the application development project by indicating the important elements and list the tasks to be carried out. (00SR-1)
- produce the graphical interface of the application. (00SR-2)

*Based on **application logic**, you will have to:*
- program the interactions between the graphics interface and the user. (00SR-3)

*Based on native application development **without a database**, you will have to:*
- program communication with the peripherals and software functions of the target platform. (00SR-4)
- use threads. (00SR-5)

*Based on validating **compliance**, you will have to::*
- Ensure the quality of the application. (00SR-6)

Documents to be submitted:
- A document presenting your analysis.
- The files containing your application code.
- A video presenting all the functionality of your application.
- A file containing the test plan and test results.
- A document explaining the corrections made.

<u>Task 2: (Interview assignment)</u>

- You will have to answer questions about certain elements of your assignment to verify its authenticity. You will also be asked to provide clarification, as needed.

- Based on the files submitted and a computer with the required software, your content specialist will ask you to explain or reproduce some of the operations carried out to produce your assignment.

- Produce also a short video presenting how the web application works.

Note: For the video recording, the following instructions must be observed:

- o *Your video recording should be no longer than 15 minutes.*
- o *The recording must cover all the functionality of the web application.*

During recording, the camera angle should provide a good overview of what is happening. You also need to ensure good sound quality and sharp images.

Send the video recording to the person responsible for your file and keep a copy for the interview.

Follow-up questions may be asked to clarify elements of your presentation.

00SR Evaluation

10% 00SR-1 Analyze the application development project by indicating the important elements and listing the tasks to be carried out.

- Accuracy of the analysis of the design documents.
- Relevance of important elements of the analysis.
- Relevance of the tasks to be performed.
- Presence of essential tasks.

15% 00SR-2 Produce the graphical interface of the application.

- Accuracy of the graphic element choices for display and input
- Accuracy of the use of graphic elements for display and input.
- Accuracy of the integration of images
- Adaptation of the interface elements to the display format and resolution.

25% 00SR-3 Program the interactions between the graphic interface and the user.

- Accuracy of programming of the interactions between GUI (graphic interface) and the user.

15% 00SU-4 Program the communications with the peripherals and software functions of the target platform.

- Accuracy of programming communications with peripherals and software functions of the target platform.

15% 00SR-5 Use threads.

- Accuracy of the use of execution threads

20% 00SR-6 To ensure the quality of the application: validate compliance with the design documents and test the application's function using a test plan.

- Compliance of the application with design documents.
- Rigour in the application of the test plan on the network.
- Relevance of bug fixes applied.