

DA218A – JavaScript Lab #2

INSTRUCTIONS

The main purpose of this lab is to demonstrate your knowledge in the concepts you have learnt during the course.

Tasks should be done **individually**.

You need to do all the tasks in one category to obtain the grade. You either get 3, 4, 5 or fail on this lab.

Required: HTML, CSS, JavaScript

Possible: Front end Frameworks (such as react or angular)

TASKS for grade 3

Your task is to create a webpage **yourname.html** with one quiz. Visitors can submit their answers and they can see the results after answering.

- 1- Visitors should enter their name and email.
- 2- Both name and email are required.
- 3- The questions should have at least the following
 - a. One question with radio buttons (only one answer can be chosen)
 - b. One question with check boxes (one or more answers can be chosen)
 - c. One open question with a text box in which visitor can enter the answer.
- 4- Questions could be hardcoded or read from a JSON file
- 5- You could define which questions are required for the final result, or else all should be required.
- 6- You should validate that
 - a. The required questions are not empty (or one radio button is chosen, and one checkbox at least is chosen).

- b. The first name and last name are not empty and that they have only letters
 - c. The email is not empty, and it has (@) and dot (.) with no spaces. (No need for regular expressions but you may have).
- 7- At the end of the quiz, you should show the score for the visitor according to their answers. It is up to you to choose the number of questions and how points are calculated.

TASKS for grade 4

You are required to do all previous tasks in addition to the following...

Show the result of the quiz to the visitor. You have two choices.

Option1: Show the correct answer to each question after the visitor answers.

Option1: Show answers at the end of the quiz.

TASKS for grade 5

You are required to do all previous tasks in addition to the following...

Now after you have succeeded in showing your own quiz, your task now is to make a website for users to create their own quizzes.

Look at this website for inspiration

<https://freeonlinesurveys.com/app#/newProject>

Create a new page for creating a new quiz and it should give the following functionalities

- 1- The user can add new question
- 2- The user can add the possible answers to the question.
 - a. The possible answers could be a text box or radio buttons or checkboxes.
- 3- In real scenarios, the quiz should be saved, and a new link will be created for each new quiz. However, in this lab, you just need to edit the HTML

file (or create a new one) with the new created quiz. The key here is to use **DOM manipulation**

- 4- After the user finishes creating the quiz, it should be possible to try it afterwards.
- 5- **No need to specify the correct answer. No need to show results. It is optional to do so.**

It is more fun when you add real questions, so you can test the knowledge of your family and friends. BE CREATIVE and let others learn something NEW!

You have the freedom to write questions in the language of your choice /But do not forget to use suitable styling for the language. I can read English, Arabic, Swedish and French. We have Google translator for other languages

No backed is required (optional). 😊 So, names and emails are not really used or saved!

It is **Extra** if you hosted your quiz website and make it accessible online.

Upload a zip file with all the requirements into **Canvas** no later than **Friday 11th March**.

It is recommended to have the code in GitHub as well or any similar version control website.

You should also upload a report (approximately 2 pages long)

If you have any questions, please send me an email, or reach me via Canvas

All the Best

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