

GLA 4: jQuery - Dynamically Manipulating the DOM

OBJECTIVE

Use jQuery to dynamically manipulate the DOM by displaying, modifying, and interacting with student data without manually creating HTML elements.

TASKS

1. Display Student Information Dynamically (10 marks)

Using the starter code, use jQuery and loops to display student information from “dataJson”. Using jQuery and loops, create a webpage that displays the students' information on the screen, with the following:

1a) The grade number must be bolded. (2 marks)

1b) The animals they like must be underlined. (2 marks)

1c) The colour they like must have a style matching that colour. Either the background color or text colour should match it. Only apply this style to the text of their color. Ex.: "Red" should be written in red, or have a red background: **red**. (2 marks)

The information must be organized, and it should be easy to identify where each student's information ends and the next one begins. (4 marks)

2. Add one of these two functionalities: (5 marks)

2.a) An element, when clicked, deletes the corresponding student from the page (one for each student). (2.5 marks)

2.b) An element, when clicked, toggles the corresponding student's text style, making it look faded or adding a strikethrough effect to it. It returns to normal when clicked again (one for each student). (2.5 marks)

3. Add a form that allows the user to enter a new student into the system. (10 marks)

The form must contain: "name", "grade", likes: “animal”, “fruit”, “colour”.

New information is correctly validated, saved, and added to the existing data. (5 marks)

New student's information is correctly displayed on the screen. (5 marks)

4. Add a "reset" button that reverts all changes that we make to the page. (2.5 marks)

When we click the reset button, the page should revert to its original state. No new students should be visible, and all the deleted data must return.

5. Add any kind of *effect* to your webpage, using jQuery. (2.5 marks)

Examples: fadeIn(), fadeOut(), slideToggle().



Submission

Save your HTML, JavaScript, and CSS files inside of a .zip file, and submit it to GLA 4's Dropbox in D2L.

Grading

This GLA is graded based on a maximum of 30 marks