**Assignment #7. jQuery (Selectors, Effects, Animations)**

Student: Write your full name

Group: Write your group

**Objective:**

The goal of this assignment is to introduce **jQuery**, a powerful JavaScript library that simplifies DOM manipulation, event handling, and animations. By the end of this assignment, students will be able to:

* Select and manipulate elements using **jQuery selectors**
* Apply **effects** (show, hide, toggle, fade, slide)
* Create basic **animations** with jQuery methods

**Rules for Submission:**

1. The assignment must be completed individually. If you have the same paperwork with other students, you will have 0 to this work.
2. The assignment must be submitted by the deadline which is specified in the lms.astanait.edu.kz. Works submitted after the deadline will not be accepted! To receive a grade, you must submit by deadline and defend your work at practice lesson time.
3. SUBMIT REPORT(DOC FILE) AND YOUR PROJECT FOLDER IN ZIP FORMAT. Ensure that the project runs without errors.

IN REPORT SHOULD BE:

* YOUR NAME, GROUP
* **All parts with screens(write part, task and then add screen)**
* Summary of your work process

**Part 1. Getting Started with jQuery**

**Task 0. Setup**

* Include jQuery from a CDN.
* Write a $(document.ready() function.
* Test by printing *“jQuery is ready!”* in the console.

**Task 1. Selectors & CSS**

* Select elements by ID, class, and tag.
* Change their content with .text() and .html().
* Change styles dynamically with .css().

**Part 2. jQuery Effects**

**Task 2. Visibility Methods**

* Create a paragraph and two buttons: **Hide** and **Show**.
* Use .hide(), .show(), and .toggle().

**Task 3. Fade Methods**

* Add an image and use .fadeIn(), .fadeOut(), .fadeToggle().

**Task 4. Slide Methods**

* Create a collapsible panel and control it with .slideUp(), .slideDown(), .slideToggle().

**Part 3. DOM Manipulation with jQuery**

**Task 5. Add & Remove Elements**

* Create a list with an “Add Item” and “Remove Item” button.
* Use .append(), .prepend(), .remove().

**Task 6. Modifying Attributes**

* Add a button that changes an image’s src attribute when clicked.
* Add another button that changes a link’s href dynamically.

**Task 7. Form Interaction**

* Create a form with inputs for Name and Email.
* When the user types, display their input live below the form using .val() and .text().

**Part 4. Animations**

**Task 8. Basic Animation**

* Animate a square <div>: increase its size and change position using .animate().

**Task 9. Sequential Animations**

* Animate the box step by step (move right → move down → shrink → return to original).

**Task 10. Combined Animation**

* Combine opacity, size, and movement into one .animate() call.

**Part 5. Mini Project**

**Task 11. Interactive jQuery Project**

Choose **one** mini project to complete:

1. **Image Gallery:** Thumbnails fade in/out and enlarge on click.
2. **Accordion Menu:** Sections expand/collapse with slide animations.
3. **Bouncing Ball:** Animate a ball that moves across the screen and “bounces” back.

**Evaluation Criteria (100%)**

1. **Setup & Selectors (10%)**

correct use of jQuery basics

1. **Effects (15%)**

working show/hide, fade, and slide methods

1. **DOM Manipulation (10%)**

adding/removing elements, attributes, form interaction

1. **Animations (10%)**

smooth, correct use of .animate()

1. **Mini Project (20%)**

functional, creative, interactive project

1. **Defense during Practice Lesson (30%)**

Student explains assignment clearly

Demonstrates understanding of assignment

Answers instructor’s questions correctly

Completes the given task from the instructor correctly

1. **Report (5%)**

well-structured report with all screenshots and summary

**Resources:**

1. Abitova G.A. Web technologies Front-End Development. Part 1 (2022);
2. <https://www.youtube.com/playlist?list=PLPT6CF0r4E3oCA-JwzCc9fgWz6-6mVp-4>
3. <https://api.jquery.com>
4. <https://www.w3schools.com/jquery/>
5. <https://www.w3schools.com/jquery/jquery_ref_effects.asp>

***\*\*Questions will be based on the provided resources***

**Good luck!**

**Note:** Feel free to seek assistance from me or use online resources. You can contact me via Microsoft Teams (kuralay.makhmetova@astanait.edu.kz) or send a message on Telegram (@niholuv).

**Please remember:** contact hours are **from 9:00 AM to 9:00 PM**. Messages sent outside of this time may not receive an immediate response.