

University of North Dakota
College of Engineering, Science and Technology
Department of Computer Science

COMP1231

Web Programming

Assignment #4

Due Date: Friday, August 12th, 11:59 pm

Weight: 8% of Final Grade

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COMP1231 Assignment 4

Assignment Type: Individual Assignment

1. Description

In this assignment, you are to complete the development of a jQuery JavaScript file (**STUDENT_NUMBER_jquery-selectors-events.js**) and an index file (**assign4_index.html**). A starter / template file of each has been provided in the available starter compressed file.

The objective of the JavaScript file, is to provide **jQuery selector definitions** to select each of the necessary elements on the index page to eventually assign an event handler to. The file also provides the definition of the event handlers that get invoked, depending what actual event was fired.

PLEASE NOTE:

An implementation solution, for the click event, bound to the forms checkbox on the index page has been already been provided. Use this sample as a means to provides added direction in completing this assignment.

2. Objective

- Write decision-making statements and control structures to solve problems
- Apply programming logic to solve basic to intermediate problems
- Testing and debugging
- jQuery: introduction, selectors, events, event handlers

3. Learning Outcomes: After conducting this assignment students will / will be able to:

1. Acquainted with implementing selectors using jQuery
2. Acquainted with implementing jQuery functions/event handlers
3. Follow instructions, and to implement various requirements

4. Instructions:

1. You are to complete the JavaScript file which must be named **<STUDENT_ID>-jquery-selectors-events.js**, where **STUDENT_ID** represents your student number.
2. **<STUDENT_ID>-jquery-selectors-events.js**.

The JavaScript file has been started for you. An example jQuery selector has already been completed, specifically illustrating how to select the checkbox with **id="optin"** from the index page. **The implementation for the other selectors is left intentionally for you to complete as part of the assignment requirements.**

Additionally, the file also contains the event handler solution, **doOnClick()**, essentially the event handler that is wired and called, when the user clicks the forms checkbox on the index page. **The implementation for the other event handler functions is left intentionally for you to complete.**

3. The index page (**assign4_index.html**) needs to be updated according to the names of your js file.

```
<script type="text/javascript" src="js/STUDENT_NUMBER-jquery-selectors-events.js"></script>
```

Additionally, you will need to update the index page with your name and student number

```
<label>Name: YOUR_NAME_HERE</label><br/>
<label>Student Number: YOUR_STUDENT_NUMBER</label>
```

The information below further describes the assignment requirements.

Project Structure

The provided starter compressed file is depicted below. You will note, a images folder has been provided, the image within, prove a necessary component to the proper functioning of your solution.

```
starter
| -- assign4_index.html
| -- images/
' -- js
    | -- STUDENT_NUMBER-jquery-selectors-events.js
```

Solution Organization

The following table helps to strategize on how to proceed with solving this assignment. The Markup column clarifies what you may consider selecting from the html markup, what event your solution should be anticipating, and finally what event handler should be invoked as a consequence.

Source selector markup	Event	Event Handler	Status
Opt-in checkbox	click	doOnClick(e)	Complete
the body of the html can be used when the dom is loaded	ready	doOnLoad(e)	Not Complete
The "Lorem ipsum..." hyperlink	click	doOnClick(e)	Not Complete
block paragraph (sample text inn index clearly indicates mouseover and mouseout intent)	mouseover mouseout	doOnMouseOver(e) doOnMouseOut(e)	Not Complete
form	submit	doOnSubmit(e)	Not Complete
input textfield	focus blur	doOnFocus(e) doOnBlur(e)	Not Complete
combox	change	doOnChange(e)	Not Complete

Submission Procedure and Rules

Please ensure to remove all instances of the following from your final submission solution:

- `document.write()`
- `innerHTML()`
- `alert()`
- any commented `code`
- Utilize the console log as demonstrated in the sample `doOnClick()` event handler, for your remaining event handler definitions.

Submission Procedure

1. In order to complete this assignment, you will need to create the following **TWO** files.

- I. **<STUDENT_ID>-jquery-selectors-selectors.js**

The JavaScript file (starter provided), as documented in the assignment instructions above, is where your jQuery selector and event handler logic will be implemented. A starter file has been provided to you, with a solution for selecting the checkbox from the index page.

Use this file to add your remaining selector and event handler code. The **<student_id>-jquery-selector-events.js** is a compulsory component of your submission.

- II. **assign4_index.html**

The index file (template provided) visually displays the html components (form, paragraphs images etc..) that your jQuery solution will respond to when the associated event is fired. You must refactor the index page provided to properly reference your **<student_id>-jquery-selector.js** and **<student_id>-events.js**. The index page should also be updated with your student name and student number.

```
<script type="text/javascript" src="js/STUDENT_NUMBER-jquery-selectors-events.js"></script>
```

...

```
<label>Name: YOUR_NAME_HERE</label><br/>
```

```
<label>Student Number: YOUR_STUDENT_NUMBER</label>
```

2. You must upload all three of your files, to your **GBlearn** account on or before the due date:

1. **<student_id>-jquery-selector-events.js**
2. **assign4_index.html**

- The JavaScript file should be uploaded to **/comp1231/assignments/assignment4/js**
- The index html file should be uploaded to **/comp1231/assignments/assignment4/**

3. You must also submit your JavaScript file on **my.gblearn.com** under **comp1231/assignment4/js**.

Avoiding this step will result in a mark of ZERO for your assignment submission. All files/folders must be spelled exactly as specified above (all lowercase without any spaces)

4. Late submissions are graded at a **-10%** penalty per day (five day maximum)

We are going to use Moss (<https://theory.stanford.edu/~aiken/moss/>) to detect similarities in code among all students. There will be zero tolerance for plagiarism. Please be aware.

Marking Rubric

80% - Your overall code and functionality

Monitor	Event	Handler	Percentage
checkbox	click	doOnClick(e)	Solution Provided
page load	ready	doOnLoad(e)	15%
hyperlink	click	doOnClick(e)	15%
block paragraph	mouseover mouseout	doOnMouseOver(e) doOnMouseOut(e)	15%
form	submit	doOnSubmit(e)	15%
text field	focus blur	doOnFocus(e) doOnBlur(e)	15%
combo box	change	doOnChange(e)	15%

10% - Best practices

- Variables/function name can be short, yet descriptive/meaningful, camelCasing applied
- Use let/const over keyword var when possible
- Stick to a strict coding style
- Comment as much as needed but not more
- Clean and easy to read code (indentation, space before and after any operator)

GOOD LUCK!