

DMIT2503 – Advanced Web Concepts

Lab 4: jQuery

Overview: Based on the lessons in jQuery, please show the following examples demonstrating your understanding of several jQuery features and utilization in web projects. You will have to research various things on your own to complete all tasks.

Each of the six items below is a separate file/URL. Do not feel that you have to combine them into one file.

15 marks. Worth 15% of final mark.

1. jQuery UI, Validation [4 marks]

- Use any HTML page with any content.
- Put some content in either tabs or accordion.
- As per instructor's demo, show a registration form with the following features:
 - i. The form is accessed through a proper sized jQuery dialog box launched from a button. Research how to define width, effects, etc. on your dialog.
 - ii. The form should be a well styled form with the following inputs: name, email, URL, credit card, age, comments, password, password confirm.
 - iii. Demo basic validation of the following as required:
 - One or more required fields.
 - Email format.
 - URL format.
 - Minimum length.
 - Password confirmation.
 - Numbers only.
 - iv. What is expected here is a built-from-scratch dialog and your own form. Finding a jQuery Modal Form script built by someone else and simply hooking it up is NOT acceptable.

The screenshot displays a web application titled "jQuery Basics". At the top, there is a green header bar. Below it, a yellow navigation bar contains the text "Vivamus | Ullamcorper | Consequat | Sollicitudin | Morbi Orci Leo". The main content area features a sidebar on the left with a heading "SideBar Heading" and a list of links: "Aenean viverra nunc in ne", "Vivamus quis orci turpis", and "Duis convallis interdum". An "Open Dialog" button is located at the bottom of the sidebar. The central part of the page shows a "New Contact" dialog box. The dialog has a yellow title bar and a grey body. It contains a form with the following fields and validation messages:

- Name: * [input] This field is required.
- E-Mail: * [input] This field is required.
- URL: aa [input] Please enter a valid URL.
- Credit Card: aa [input] Please enter a valid credit card number.
- Age: aa [input] Please enter a valid number.
- Your comment: * [input] This field is required.
- Password: ** [input] Please enter at least 8 characters.
- Password Again: *** [input] Please enter the same value again.

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2. Dynamic Layout example: [2 marks]

Using jQuery Masonry or Isotope (or similar script), demonstrate a basic page layout *with your own content*. For masonry, content must resize/shuffle if page size is changed.

3. FLOT (or similar chart): [2 marks]

- Demo a flotchart.org chart like the one we did in class but using *your own dynamic data source*.
 - i. DO NOT use the default Military Spending or World Population 1950 – 1980 data; please resource your own data and create your own MySQL table.
- Feel free to try a different chart style, or even a different script.
- It MUST be using a database and PHP script.
- The example we used only seems to work well with the JSON data being paired numbers. If your data is different, try a feasibility study first by hard-coding the data into JSON before building the data table.
 - i. Feel free to try a different chart style. There are many shown at <http://www.flotcharts.org/plot/examples/>.

4. Content Slider: [2 marks]

- Demo the Nivo jQuery content slider integrated with content into a web layout. Images and design can be the provided examples, or your own. You CANNOT simply show the demo files that came from the downloaded script.
 - i. Make sure the theme has been integrated correctly.
 - ii. Make sure to remove (or change) any captions that came with the example to make them describe the images shown.
- If you want to try another slider, please clear it with the instructor first. Please select one that you want to learn, NOT one you already know.

5. Chosen or another jQuery Multi-Select script [2 marks]:

- Please create your own select using 10 or more web or media skills (such as HTML, CSS, PHP).
- If submitted, the script is part of a PHP script that echo's out the selected skills. Research PHP form arrays. `<select name="skills[]">`
 - i. Note: You cannot have our default `mysqli_escape` script here as it will not work with a form array.

```
foreach ($_POST as $key => $value) {  
    $_POST[$key] = mysqli_real_escape_string($con, $value);  
}
```

6. Your own jQuery script: [3 marks]

Please find a jQuery script you like, research it, and implement it in some way with your own design and your own content.

- Please be ready to show the author's site and example so we can see how you have integrated the script into your own project.
- Marks from 1 – 3 based on level of difficulty, integration with a project of yours, and overall hipness.