

## Lab Exercise: User Interface Design with jQuery

Overview of the lab exercise:

### How to Add jQuery to Web Pages

There are several ways to start using jQuery on your web site. You can:

- Download the jQuery library from [jquery.com](https://jquery.com)
- Include jQuery from a CDN, like Google Hosted Libraries

(<https://developers.google.com/speed/libraries>) or jQuery CDN (<https://code.jquery.com>)

### Part 1: Create a webpage using Pug

1. Create a file named `tab.pug`. Incorporate a favicon into the head block of the page using the following Pug code:

```
doctype html
html
  head
    link(rel="icon", href="path_to_your_image", type="image/jpg",
      sizes="16x16")
```

Note: Replace `path_to_your_image` with the path or URL of the image you want to use as the icon.

Favicons are small 16x16 icon files that are displayed next to the URL of your site in a browser's address bar. Additionally they're often displayed next to the name of your site in a user's list of open tabs and bookmark listings making it easier for the user to quickly identify amongst other sites.

2. Add tabs structure within the 'body' as follows:

```
div#tabs
  ul
    li
      a(href="#tab1") About Us
    li
      a(href="#tab2") Services
    li
      a(href="#tab3") Facilities
  div#tab1
    p This is About Us
  div#tab2
    p Services
  div#tab3
    p Facilities
```

3. Include "jquery-ui.js" and "jquery.js" external JavaScript right after the tabs structure in step 2.

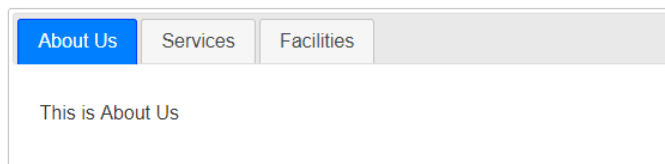
jQuery is a JavaScript library meant for DOM operations.

jQuery UI is a JavaScript library built on top of jquery which is meant for UI operations.

4. Add another external JavaScript right after the external JavaScript in step 3. Add the jQuery code below within document.ready()

```
$( "#tabs" ).tabs();
```

5. Link "jquery-ui.css" file to the tab.pug
6. Save and view the output. You'll get something like the screenshot below:



## Part 2: Add Tooltip

1. Amend the tab structure by adding title attribute within <a> element as below:

```
a(href="#tab1" title="About the Company")
```

2. Add the jQuery code below within document.ready() in the internal JavaScript:

```
$(document).tooltip({  
    position: {  
        my: "bottom",  
        at: "top"  
    }  
});
```

Tooltip is a graphical user interface (GUI) element used in conjunction with the cursor or mouse pointer to display information about an item without needing to click on it. A tooltip is also known as a hint infotip or screentip.

3. Save and view the output. You'll get something like the screenshot below:

