Module COM554 33652   October, 2011

Interactive Web Computing   Prof T J Anderson

Final Year - Assignment 1

BSc (Hons) Computing Science
BSc (Hons) Software Engineering
BSc (Hons) Computer Science

Date set: Thursday 6th October   Hand-in: Noon on Friday 28th October

Contribution towards coursework marks: 35% (and scored out of 35 marks)
Approximate time to be spent: 35 hours (over and above textbook reading time)

Keep a copy of all submitted coursework – i.e. your computer files.

Learning Outcomes: To develop expertise in using HTML, CSS and jQuery to
develop a web site with a range of interactive features.

Code files and log showing use and understanding of jQuery

This assignment is focused on learning jQuery (do **not** use jQuery UI) and
building demonstrator components using it into a single web page to
demonstrate a range of jQuery features.

Over the 3 weeks of this assignment it is assumed that your web page will evolve
from a simple starting point to a page with an impressive set of features
demonstrating some of the capabilities of jQuery. The aim is to manage your
learning of jQuery and build up your knowledge of what is possible using this
framework. Each week you should be able to incorporate a few additional jQuery
features into your website, in line with your directed reading of jQuery in Action.
(Keep a close eye on the guidance under the weekly 'Independent Study'
heading.) As the weeks progress, retain the features you have developed in
earlier weeks, so the final web page is all your cumulative work.

As mentioned above, you will be given week-by-week reading guidance for the
jQuery in Action (2nd edn.) text, so that your independent study, assignment
work, practical work and the lectures will be closely bound to one another.

You should incorporate jQuery components that as clearly, imaginatively and
visually attractively as possible demonstrate the following:

Use of jQuery selectors to add and remove classes
Adding elements directly into the DOM
Adding css
Tabs (non jQuery UI)

Accordions (non jQuery UI)
Hide/Show/Fade/Toggle capabilities
Drop-down (or comparable) menus
Event Handling
Tooltips
Basic animation effects
Automatic construction and population of list, table and select elements

You are encouraged to go beyond this set of features/capabilities to develop and demonstrate in your assignment as extensive a practical knowledge of jQuery as you can.

Also, at least once each week (but more frequently is advised) you should add clearly dated material to your log file in which you describe the features you have added, and explain in general terms how they work (i.e. explain in English how the jQuery works – only copy in key pieces of code (keep them short) to help make your explanation clear) and note any other major changes to your webpage. The length requirement for the weekly log entry is about 2 – 3 pages, so the total length of the log by the submission date will be about 6-9 pages. It is ok to include screenshots where they clarify your written text.

(Here is some old but very important advice: **be careful to backup your work frequently on reliable media**.)

Assessment Criteria

The final page of this document is an annotated version of the feedback file that will be completed and returned by email to you. The top part will be used as a basic checklist to note the presence or absence of the requested jQuery features. The marks will be allocated as shown in the centre of the page, and comments specific to your work will be added in the lower third of the page.

Submission Details – note that only electronic documents are involved

By the deadline time of noon on Friday 28th October you must provide the two components set out below– both are essential. Failure to comply with either component will be treated as a non-submission unless there has been some technical issue beyond your control. The first will make your work available on the web for marking. The second will provide unalterable evidence of the date and time of submission and will also be a backup of your files to guarantee that the external examiner can view your work during his visit for the June 2012 examination boards.
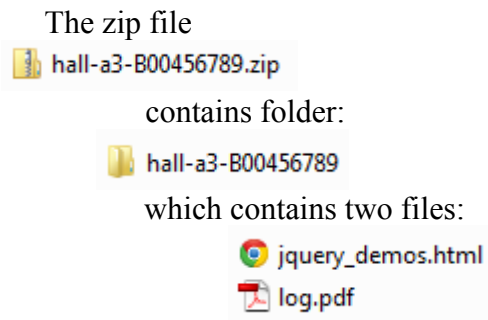
1) In index.html on your SCMWEB site (with the general format used in Assignment 2) the button marked 'Live web site' should point to a single page called jquery_demos.html containing all the jQuery examples. (This page must also embed all scripts and css used.) The button marked 'log.pdf' must point to your file of the same name – note that no other

names or formats will be acceptable. It is your responsibility to test that the links lead correctly to the jquery_demos.html and log.pdf files.

2) Prepare a zip file using part of your email address and id number
e.g. if your email was hall-a3@email.ulster.ac.uk and id number was B00456789, then the zip file would be hall-a3-B00456789.zip
and it would contain a folder called hall-a3-B00456789, which in turn should contain two files, jquery_demos.html and log.pdf.

To recap visually:

The zip file

 hall-a3-B00456789.zip

contains folder:

 hall-a3-B00456789

which contains two files:

 jquery_demos.html

 log.pdf

Attach your zip file to an email, and send it to:

COM554.33652@gmail.com

This address is reserved for receiving and acknowledging COM554 33652 assignment work. You will initially get an automated acknowledgment so you know that your email reached this address. Prof Anderson will check your .zip file, make a secure copy and will send you a separate confirming receipt from this address. You should retain his email to you as your receipt for submission. This will normally take no more than 2 working days.

(Please note: Prof. Anderson will only check this email account around the times of assignment submission or otherwise as announced to the class for testing purposes. For normal email contact, please use: tj.anderson@ulster.ac.uk)

Anti-plagiarism Measure

In the interests of avoiding plagiarism, you are strongly advised not to make your jquery_demos.html and log.pdf files easily visible on the web. You can do this by developing the files inside a folder with a name known only to yourself. However, shortly before the submission deadline, link the files from your index.html page and check that they are visible on the web via the buttons on index.html.

This is the template file that will be used to provide you with feedback.

Student Name: Name

Presence of code features

Use of jQuery selectors to add and remove classes	Present/Absent
Adding elements directly into the DOM	Present/Absent
Adding css	Present/Absent
Tabs	Present/Absent
Accordions	Present/Absent
Hide/Show/Fade/Toggle capabilities	Present/Absent
Drop-down (or comparable) menus	Present/Absent
Event Handling	Present/Absent
Tooltips	Present/Absent
Basic animation effects	Present/Absent

Weekly log comments

Range of jQuery items and Evidence of understanding	High ……………………………… Low	/ 10

Code

Range and quality of jQuery items	High ……………………………… Low	/ 20
Quality/completeness of CSS	High ……………………………… Low	/ 5

Total Marks: **XX**   out of a possible 35

Feedback comments

(The following are considerations that will be commented on, and are set out here as additional guidance on the level of work expected.)

What level of overall effort is evident? How impressive or otherwise is the set of jQuery features (inc. css) included? Note any omissions from the set of required features and/or features beyond the ones explicitly mentioned in the assignment spec. Is the code well laid out, elegantly structured and with appropriate naming, suitably indented and with helpful comments.?
Is the log clearly presented, well written, of suitable length with a good level of detail and showing a good understanding of the jQuery features (and css where relevant).? Does the log show enthusiasm and interest or does it convey limited interest and/or minimal effort?
Any other relevant comments.