

Web Programming Project I

INET2005 Web Application Programming I

Evaluation : 10% of Final Grade

Assignment Description

Have you ever reviewed a product purchased online? Web Programming Project I is to develop a web application that displays a single photo of a product and allows the user to review the product, complete with star rating and comment.

The requirements are:

- A page that displays one photo (of your choice) and a list of all previous reviews (if any) of the product. The reviews are pulled from a database and each one includes a first name, last name, date, rating, and a comment
- The list of reviews must be sorted on the page by the last added at the top of the page down to the first added at the bottom
- The page must include a checkbox that when selected shows a form that will allow a user to input a new review by entering the following data:
 - Rating
 - First name
 - Last name
 - Comment entryWhen the user unselects the checkbox, the form will be hidden once again. Note the form must be closed on first request of the web app.
- All input must be limited to a certain number of characters
- The rating input must be done by selecting a certain number of stars (from 1 to five). The control will display five stars that the user can rollover to highlight the desired rating and click to “lock it in”. This control is typical of most rating controls on other web apps.
- While the user types in the review’s comment, the web app must display the number of characters the user has left. This functionality and the form panel opening / closing must be implemented on the client side. Remember that JQuery is already wired into ASP.NET Core web apps, so you are free to take advantage of this!
- You will need to construct a table in your MySQL database that will store all the required data for the reviews
- The web application must be well designed and responsive by implementing the Bootstrap (or equivalent) CSS Library
- The interface should be user friendly
 - You should include a “back to top” link / button for each review
 - The input textboxes should be cleared after the user enters a new comment
- Minimal error checking must be included in the form:
 - If the user does not fill out either the first name or the last name textbox then the review’s author is saved as “Anonymous”
 - If the user does not fill out at least the comment entry textbox then no new review is saved – however, no error message is required. In other words, a comment must be included in every review
- Your web app should not crash if there are no reviews in the database table – however, no error message is required
- Be sure to include internal commenting throughout your code to explain the logic
- To aid in testing, submit your project with no reviews in the database table

Requirements (Marks breakdown)

Application Test Cases	
Application test cases <i>A series of test cases that test all requirements listed above</i>	16
Interface and Code Design	
Database Table and Interface Design <i>All table fields included / Leveraging Bootstrap for a clean interface that is easy to use</i>	1
Overall Controller / Model / View code and structure <i>Basic code structure, minimal redundancy, etc.</i>	2
Comments Included	1
TOTAL MARK	20

Other Notes

- Since this web app integrates MySQL, feel free to use the boilerplate via:
`git clone git@github.com:getthefiles-ryan/asp-boilerplate.git`
- Remember to divide and conquer! Start with building your MySQL table and populate it with some good test data. Then design a simple view. Then move on to adding the methods / properties of the model that will query the review data from the database and display it on the view / etc.
- The character count functionality is best done by exploring prebuilt JQuery plugins. The JQuery development community is full of these free tools that can be incorporated right into any web application – free of charge!
- The star rating control is common throughout the web – there are loads of examples to look at, but make sure you understand how they work.
- Be sure to have the entire project folder with you at lesson time on the due date for code review.