

Project 5

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Assignment

Note: you are allowed (and encouraged!) to work on this assignment in groups up to 3.

In this assignment you are supposed to create a "mini" movie application that uses Ajax. You will start with [this application](#), which currently allows the user to view a list of movies, view movie details and rate/review movies. However, the current implementation has its shortcomings, because when a rating and/or a review is added, the entire page is reloaded. In your implementation, you will fix this.

There are two operations the user should be able to perform, and it is your task to improve the current implementation:

- Rate a specific movie
- Review (Comment on) a specific movie

Adding a review

The application currently uses a standard FORM to add reviews through a regular HTTP post request, causing the entire page to reload. In your implementation you need to override the default behavior of the form and issue an AJAX post request using Javascript/jQuery (\$.ajax). Extra points will be given if the implementation allows Javascript to be disabled, i.e. the default behavior, regular HTTP POST still works. (Hint: Progressive enhancement).

When a new review is added, the application should check if other reviews have been added by other users since the page was loaded (or since the last time the page retrieved a list of updates), and display them in the proper order.

This can be tested by opening the same application (page) in two different browsers, post a new review in first window, then another in the second window and then you should see both reviews appear (then review added + the review from first window).

Note that this is only required when a review is added, i.e. the page does not have to update itself under other circumstances.

Since we haven't covered authentication in ASP.NET MVC, the current implementation retrieves the user which is currently logged on in Windows. If you want, you could also just hard-code the username.

Adding a rating

Each user should be able to rate (give it stars from 1-10) each movie exactly once. Once a user has rated a movie, he/she can rate it again, i.e. overwrite his/her previous rating. When a new rating is added, the application needs to recalculate and update the average rating for the movie displayed.

The current implementation uses a standard select list box to allow the user to rate movies. You are free to change this implementation to any form of input type/markup which suits this type of user interface (Have a look at the star widget used to rate movies at imdb.com).

Extra points will be given if the implementation allows Javascript to be disabled ("Progressive enhancement").

Star rating widget

In this part you should change the way the rating widget is presented to the user. A simple select list is neither really exciting to use, nor user friendly. You can use HTML/CSS/Javascript to update the way this widget looks/works. Again, have a look at imdb.com or check [this](#) example for ideas.

Other requirements

This assignment focuses on all the main topics we have covered in this course thus you are required to write HTML and CSS which is clean and with no validation errors. The same applies to the Javascript and the C# code.

Grading

In order to fully complete this assignment you will need to do the following:

- Valid and properly written HTML/CSS/Javascript/C# (10%).
- Implement AJAX for reviewing a movie (35%)
- Implement AJAX for rating a movie (35%)
- Update the star rating widget looks/functionality from the default select list element (20%).

Hand in

Please hand in a single archive file (.zip, .rar, 7z), containing the entire solution.

It should be possible to unzip the archive, and run it instantaneously without any changes to the code.

The deadline for this assignment can be seen on myschool.

Again: you may work on this in groups up to 3 (and this is encouraged!).