

Web Programming I

ITS 210

-Project Two

Goals

Pain and suffering in a “real world-ish” Web Development experience, followed by the joy and satisfaction of completing something really hard.

Instructions

Combine your TiVo Guide from Project One and your bullet-proof program data entry from Homework 3 into one new fully integrated project. (All of the requirements of the first TiVo project and homework 3 remain in full force and effect.) Once you’ve done that . . .

Refactor your TiVo project

- to use arrays of JavaScript objects. Note that refactoring means changing only the underlying implementation, not any of the functionality. (However, if you wish to improve your “guide grid” functionality from where it was for the first project, please feel free to do so. Actually, I encourage this.)
- to store the data for each show/movie in a “program” object. (As in “JavaScript object”.)
- to store the collection of programs (objects) that you display and highlight in the “guide grid” in an array.

This should be a masterpiece of Web Programming excellence where the user can edit the programs in the guide grid by clicking on any program.

When they click on one:

- highlight the program “block” (as before)
- display the description in the text window (as before)
- display the date, time, and rating (as before)
- provide functionality for editing all the data fields (including length). Once the editing is complete, update the grid to display the new data.

Your code must . . .

- Separate structure from presentation.
- Be professionally formatted.
- Use and demonstrate **all the best practices** we’ve been talking about in class all semester and about which I won’t shut up.

Seriously. This is the final project. I will be subtracting serious points for violations of best practices at this point.

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Extra credit: Add the ability to add and delete channels

- Adding a channel results in an empty row in the guide, so you'll need a way to create new programs rather than just editing existing ones.
- Deleting a channel removes the channel and all its programs. Ask the user whether or not they are really sure they want to do such a thing before actually doing it.

Hints:

- Allow the user to change the title, description, and rating data first. That way you don't have to worry about the time slots initially. If you get all that working, then save a backup copy, and attempt to enhance it so that the time-slots can be moved.
- Don't hard-code the program values within the HTML5. Create an object for each of your programs, then put those objects in an array. Do that in an `init()` function. Then write a function to fill the grid based on the array of objects (which you'll need to declare globally). That way, whenever someone edits a program, all you need to do is call the `display` function again.

Submitting

Upload your entire site to your directory on my server via FTP as we discussed and practiced in class. I also want **all the source code** (HTML5, CSS, JS) printed out and handed in as well.