

Lab 6 Instructions, Selection, Group C

CS 133JS, Beginning Programming: JavaScript

Overview

The objective of this lab is to give you practice using:

- Creating objects
- Working with object properties
- Working with object methods
- Using object constructors
- Working with complex objects

Part 1: Object Exercises

A web page, *ObjectExercises.html*, has been written for you that contains code to call functions and use code that you will write in a file named *ObjectExercises.js*. The instructions for writing your functions and the code to test your functions are in *ObjectExercises.html*, but all the code you write will go in *ObjectExercises.js*.

Part 2: Web Apps

You will create two web apps. The HTML page for each of these has already been written for you. You will just write the JavaScript file.

Web App I for Group C – ToDo List

This web app displays a list of tasks and allows a user to add tasks, set priorities and mark tasks as finished.

This is a new version of the ToDo List app you made previously using arrays. This one will use objects.

Implementation:

1. Declare a global one-dimensional array named *tasks*.
2. Define an object constructor named *Task* with the following properties:
 - a. description – the task description
 - b. priority – a number
 - c. complete – Boolean, *true* if the task is complete
3. Write three functions:
 - a. *addTask*
 - Has two parameters: a task description, and a priority.
 - Add the *Task* object to the array.
 - b. *removeTask*
 - Has one parameter: the array index for a task.

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- Returns true if the index is valid.
- Use the *splice* method to remove the element for this task from the array.

c. *changeDone*

- Has two parameters: an array index, a Boolean completion value.
- Returns true if the index was valid.
- Sets the task's *complete* property to true if the Done box was checked, otherwise false.

This is a screenshot of a working Grade Book web app:

ToDo List

Task			Priority	Done
1	Brush the unicorns	Delete	3	<input type="checkbox"/>
2	Feed the dragons	Delete	1	<input checked="" type="checkbox"/> Done
3	Bathe the lions	Delete	2	<input type="checkbox"/>
4	Walk the llamas	Delete	4	<input checked="" type="checkbox"/> Done
5	Clean the griffon's pen	Delete	5	<input type="checkbox"/>
<div>Clean the griffon's pen 5 Add Task</div>				

Submitting your lab work on Moodle

Beta Version

Post the following in the *Lab Beta forum*:

1. The web pages you created for part 2.
(Zip the files for you web pages and attach them to the post.)
2. A code review of your lab partner's web page for part 2.
(Review the part 2 web apps for one of your lab partners using the Code Review Form provided.)

Code Review

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1. Submit a copy of the code review above to the *Lab Code Review assignment*.

Production Version

You may revise your beta version before submitting the production version. On the code review form you received from your lab partner, complete the “Production” column to show what you did or did not revise.

Upload the following to the *Lab Production Version* assignment:

1. A zip file containing the two files (.html and .js) for part 1.
2. A zip file containing the four files for part 2.
3. The code review from your lab partner with the “Prod” column filled in by you.