Lesson plan with instructor notes sample 03/08/2018	For this class session, students are learning:
Main Topic: HTML, CSS, JavaScript. Putting them all together **Product:** Crypto currency price and alert site. CryptoTicker **Prerequisite:** Students are familiar with basic HTML, CSS and JavaScript.	1. HTML lists, 2. making HTML buttons functional, 3. declare constants in JavaScript 4. display JavaScript values on the HTML doc, 5. and construct a conditional statement in JavaScript.

LP Details and Teacher Notes

Time	Outline	Topics and Notes	Links, Tools and Q&A

3 min	Intro – Understand the problem/ client needs	**Lesson Topics:**
		• Lists: ordered and unordered lists
		• Create buttons to interact with JS file.
		• id and span
		• Putting HTML and JavaScript together:
		  ◦ Use JS to add functionality to buttons
		  ◦ onclick [get const values from JS file]
		  ◦ document.getElementById
		  ◦ Declare constant values
		  ◦ Conditional statement
		Extensions/Next class:
		• CSS = styling the look of the site.
			Lesson Link:
			https://github.com/thelandlords/DC-SampleLesson
			
			Ordered list and ordered list types
			https://www.w3schools.com/html/html_lists.asp
			
			Use JS functions to change HTML
			https://www.w3schools.com/js/js_statements.asp
			
			JS - style HTML objects
			https://www.w3schools.com/Jsref/dom_obj_style.asp

2 min	Basics – Planning the overall big picture	**Pseudocode/diagram the program:** • Title • place to show BTC price • place to ask user for alert settings • get price button and • update alert info button	What essential info needs to be displayed? What should we use to compare the user value to the current price? Conditional statement if

15 min
 	
5 min per fork
	Demonstrate – details of turning pseudocode into actual code.	Display essentials [**HTML**]
		Use forks to show and type each stage of the code.
		
		1st: What any **HTML** needs:
		doctype, head, body, and usually needs h1...h6,
		Our HTML code needs:
		ordered lists
		unordered lists
		nested lists
		
		2nd: JavaScript our program needs:
		set values for testing
		buttons functionality [refresh button is to get prices is given; we write update button for getting user alert threshold values }
		conditional statement:
		   if[price>=alertHigh]
		    { [alert the user by changing the fields background color] }
		
		3rd: Look over final current product with **CSS** and test the conditional statement by changing priceBTC value.
			Fork 1 = HTML
			https://codepen.io/thelandlords/pen/wmvJBo
			
			Fork 2 = JS
			https://codepen.io/thelandlords/pen/QmbvXY
			
			Fork 3 = CSS
			https://codepen.io/thelandlords/pen/zWGwgv
			
			GitHub – all code
			https://github.com/thelandlords/DC-SampleLesson/tree/master/code

3 min	End Product – testing, and launching	Make sure it meets client requirements and has been end user error proofed.	How to improve and add features for the next version? Final product http://cryptoticker.glitchdoctor.net/
2 min	Extensions/ Next class topics	- Style the site using **CSS** - Add **ETH** price and alerts option - Get data from **API** instead of using the const testing values. - Show and compare two or more cryptocurrencies. - Add a graph to chart one or more cryptocurrencies. - Give user alternate alert modes – sound, email, image, etc.	What are some mistakes a user may make when interacting with the app? How can we error proof the code so that a users mistake would not result in unintended app behavior?