Advanced JavaScript Course

The Purpose of this Advanced JavaScript Course is to prepare students to cover the latest JavaScript standard ES 6 (ES 2015) and those JavaScript topics, which are required before starting to learn, React, React Native, Angular 4 and Redux. It covers Functional Programming, Object-Oriented programming, and Asynchronous and Reactive Programming.

The prerequisite for this course is that the students have covered the book "The Smarter Way to Learn JavaScript" by Mark Mayers. The duration of this course will be two months or 8 weeks.

Week	Topic	Learning Material
1	Think functionally	Chapter 1 and topics 2.1, and 2.2 of
		Functional Programming in JavaScript
		by Luis Atencio
		https://www.slideshare.net/LuisAtenci
		o3/functional-programming-in-
		<u>javascript-by-luis-atencio</u>
2	Functions as First Class	Chapter 3 of Secrets of the JavaScript
	Objects, Callback Functions,	Ninja, 2 nd Edition
	Arrow Functions, Rest	
	parameters and Default	Topic 2.3 of Functional Programming in
	Parameters	JavaScript by Luis Atencio
	This function parameter,	Topics 4.1.2, 4.2.1, 4.2.2, and 4.3 of
	invocation as a function,	Secrets of the JavaScript Ninja, 2 nd
	invocation as a method and	Edition
2	function contexts	Tania [1 [22 [51 [52 and [62
3	Closures, using closures with	Topics 5.1, 5.2.2, 5.5.1, 5.5.2, and 5.6.3
	callbacks, types of variables, and scopes	of Secrets of the JavaScript Ninja, 2 nd Edition
	and scopes	Edition
		Topic 2.4 of Functional Programming in
		JavaScript by Luis Atencio
4	Pure Functions, Functional	https://medium.com/javascript-
	Programming, Maps,	scene/master-the-javascript-interview-
	Searching Arrays, and Reduce	what-is-a-pure-function-d1c076bec976
		https://medium.com/javascript-
		scene/master-the-javascript-interview-
		what-is-functional-programming-
		7f218c68b3a0
		Topics 9.2, SEARCHING ARRAYS (pages
		237-240) AGGREGATING ARRAY
		ITEMS (pages 241-242) of Secrets of
		the JavaScript Ninja, 2nd Edition
		Topic 3.3 of Functional Programming in
		JavaScript by Luis Atencio

5	Prototypes, using classes in ES 6, and defining getters and setters	Topics 7.1, 7.3.2, 7.4, and 8.1.1 of Secrets of the JavaScript Ninja, 2 nd Edition and https://medium.com/javascript-scene/master-the-javascript-interview-what-s-the-difference-between-class-prototypal-inheritance-e4cd0a7562e9
6	Modularizing JavaScript applications with AMD, CommonJS, and ES 6	Topics 11.1.2, and 11.2 of Secrets of the JavaScript Ninja, 2 nd Edition
7	Challenges of Working with Asynchronous code, working with Promises, Async functions, and Introducing Reactive Programming	Topics 6.3 and 6.4.1 of Secrets of the JavaScript Ninja, 2 nd Edition Topics 8.2 and 8.4 of Functional Programming in JavaScript by Luis Atencio
8	Reactive Programming using RxJS	Chapters 1, 2, 3, and 4 of RxJS in Action by Paul Daniels and Luis Atencio
	Advanced JavaScript Test	Covering all the topics covered above