1 week

1) Introduction to Javascript

Data Types, Variables, Null and Undefined, Useful Built-in Functions; JS Stalker and Age   calculator exercises.

2) Javascript Basics: Control Flow

Boolean Logic, Logical Operators, Conditionals, While Loops, For Loops; Guessing game, While Loop exercises, Annoy-o-matic, For loop exercises.

3) Javascript Basics: Functions

Arguments, Functions, Higher Order Functions, Scope; functions problem set

Javascript Basics: Arrays

Arrays Methods, Array Iteration, forEach; Array problem set

4) Javascript Basics: Objects

Comparing Objects and Arrays, Nested Objects and Arrays, Adding Objects to Arrays, The keyword This; api, objects manipulation exercise

5) DOM Manipulation, Advanced DOM Manipulation, Color Game Project

2 week

1) **Introduction to Workspace**

Set up vuejs, github, terminal commands,

Using VueJS to Interact with the DOM

Understanding vuejs templates, Accessing data in the vue instance, binding to attributes, understanding and using directives, v-once, listening to events, getting event data from the event object, passing arguments to events, listening keyboard events;

Writing javascript in the templates, using two-way bindings, computed, watchers, dynamic styling with css, v-if

3) Project: The Monster Slayer -- explanation of refactoring

4) Understanding the VueJS instance

Vuejs lifecycle, vuejs instance, mounting a template, using components, components benefits,

5) Moving to a real development workflow with webpack and vue cli

3 week

1) Intro to components

Storing data in components, registering components locally and globally, creating a components, folder structure,

Communication between components

Using props for parent child communication, naming props, validating props, custom events, understanding unidirectional data flow, communcating with callback function, communication between sibling components, centralizing code in an event bus

Advanced Components Usage

Slots, dynamic components, lifecycle

2) Handling user input with forms

Data binding, radio buttons, checkboxes, dropdowns, v-model;

Using and creating directives

Understanding directives

3) Improving apps with filters and mixins
Adding animations and transitions
A lot…
4) Connecting to servers via http using vue-resource
5) Better State management with vuex

Week 4
    1) Project: the stock trader
    2) Firebase
    3) Project: online chat
    5) Project: twitter copy