



JavaScript

Modern JavaScript using
ECMAScript 6 [46 Hrs]

Instructor: Pondit Team

E-Mail:

Phone:

Overview

Modern JavaScript using ECMAScript 6

- ক্লাস শুরুর তারিখঃ ১২ জুন ২০২০
- ভর্তির শেষ তারিখঃ ১১ জুন ২০২০
- মোট ক্লাস সংখ্যাঃ ২৩টি
- মোট ক্লাসের ব্যাপ্তিকালঃ ৪৬ ঘণ্টা
- রেগুলার কোর্স ফীঃ ১০,০০০ টাকা
- ৬,০০০ টাকা ডিস্কাউন্টে ৪,০০০ টাকায় কোর্স করার সুযোগ ??
- সময় ও বারঃ শুরুর থেকে মঙ্গল - সপ্তাহে ৫ দিন (রাত ৯টা থেকে ১১টা পর্যন্ত)

Audience

যারা ফ্রন্টএন্ড ডিজাইনে ভালো করতে চান তাদের জন্য এই কোর্স

Evaluation

Curriculum

1. An Introduction

- 1.1. An Introduction to JavaScript
- 1.2. Manuals & Specifications
- 1.3. Code Editors
- 1.4. Developer Console
- 1.5. Page: DOMContentLoaded, load, beforeunload, unload

2. JS Fundamentals

- 2.1. Hello, World!
- 2.2. Code Structure
- 2.3. The modern mode, "use strict"
- 2.4. Variables
- 2.5. Datatypes
- 2.6. Type Conversions
- 2.7. Operators
- 2.8. Comparisons
- 2.9. Interaction : alert, prompt, confirm
- 2.10. Conditional
- 2.11. Logical operators

Prerequisites

কোডিং এর নলেজ থাকতে হবে

Course Information

- Duration : 46 Hours
- Day : 23
- Time : 5
- Reg. Start : May 4, 2020
- Reg. End : Jun 18, 2020
- Class Start : Jun 19, 2020

- 2.12. The "switch" statement
- 2.13. Functions
- 2.14. Function expressions
- 2.15. Arrow functions, the basics
- 2.16. JavaScript specials

3. Code Quality

- 3.1. Debugging in Chrome
- 3.2. Coding Style
- 3.3. Comments
- 3.4. Ninja code
- 3.5. Automated testing with Mocha
- 3.6. Polyfills

4. Objects : the basics

- 4.1. Objects
- 4.2. Garbage collection
- 4.3. Symbol type
- 4.4. Object methods, "this"
- 4.5. Object to primitive conversion
- 4.6. Constructor, operator "new"

5. Data Types

- 5.1. Methods of primitives
- 5.2. Numbers
- 5.3. Strings
- 5.4. Arrays
- 5.5. Array methods
- 5.6. Iterables
- 5.7. Map and Set
- 5.8. WeakMap and WeakSet
- 5.9. Object.keys, values, entries
- 5.10. Destructuring assignment
- 5.11. Date and time
- 5.12. JSON methods, toJSON

6. Advanced working with function

- 6.1. Recursion and stack
- 6.2. Rest parameters and spread syntax
- 6.3. Variable scope
- 6.4. The old "var"
- 6.5. Global object
- 6.6. Function object, NFE
- 6.7. The "new Function" syntax
- 6.8. Scheduling: setTimeout and setInterval
- 6.9. Decorators and forwarding, call/apply
- 6.10. Function binding
- 6.11. Arrow functions revisited

7. Object Properties Configuration

7.1. Property flags and descriptors

7.2. Property getters and setters

8. Prototype & Inheritance

8.1. Prototypal inheritance

8.2. F.prototype

8.3. Native prototypes

8.4. Prototype methods, objects without `__proto__`

9. Classes

9.1. Class basic syntax

9.2. Class inheritance

9.3. Static properties and methods

9.4. Private and protected properties and methods

9.5. Extending built-in classes

9.6. Class checking: "instanceof"

9.7. Mixins

10. Error Handling

10.1. Error handling, "try..catch"

10.2. Custom errors, extending Error

11. Promises, async,await

11.1. Introduction: callbacks

11.2. Promise

11.3. Promises chaining

11.4. Error handling with promises

11.5. Promise API

11.6. Promisification

11.7. Microtasks

11.8. Async/await

12. Generators, advanced iterations

12.1. Generators

12.2. Async iterators and generators

13. Modules

13.1. Modules, introduction

13.2. Export and Import

13.3. Dynamic imports

14. Document

14.1. Browser environment, specs

14.2. DOM tree

14.3. Walking the DOM

14.4. Searching: `getElement*`, `querySelector*`

14.5. Node properties: type, tag and contents

14.6. Attributes and properties

14.7. Modifying the document

14.8. Styles and classes

14.9. Element size and scrolling

15. Introduction to Events

15.1. Introduction to browser events

15.2. Bubbling and capturing

15.3. Event delegation

15.4. Browser default actions

15.5. Dispatching custom events

16. UI Events

16.1. Mouse events basics

16.2. Moving the mouse: mouseover/out, mouseenter/leave

16.3. Drag'n'Drop with mouse events

16.4. Keyboard: keydown and keyup

16.5. Scrolling

17. Forms, Controls

17.1. Form properties and methods

17.2. Focusing: focus/blur

17.3. Events: change, input, cut, copy, paste

17.4. Forms: event and method submit

18. Document & resource loading

18.1. Page: DOMContentLoaded, load, beforeunload, unload

18.2. Scripts: async, defer

18.3. Resource loading: onload and onerror

19. Frames & Windows

19.1. Popups and window methods

19.2. Cross-window communication

19.3. The clickjacking attack

20. Binary Data, files

20.1. ArrayBuffer, binary arrays

20.2. TextDecoder and TextEncoder

20.3. Blob

20.4. File and FileReader

21. Network Requests

21.1. Fetch

21.2. FormData

21.3. Fetch; Download Progress

21.4. Fetch: Abort

21.5. Fetch: Cross-Origin Requests

21.6. Fetch API

21.7. Fetch: Cross-Origin Requests

21.8. Fetch API

21.9. URL Objects

- 21.10. XmlHttpRequest
- 21.11. Resumable file upload
- 21.12. Long polling
- 21.13. WebSocket
- 21.14. Server Sent Events

22. Storing Data in Browser

- 22.1. Cookies, document.cookie
- 22.2. LocalStorage, sessionStorage
- 22.3. IndexedDB

23. Regular Expressions

- 23.1. Patterns and flags
- 23.2. Character classes
- 23.3. Escaping, special characters
- 23.4. Sets and ranges [...]
- 23.5. Quantifiers +, *, ? and {n}