Programming for the Web with JavaScript

Resume Course

Welcome to Programming for the Web with JavaScript | Not sure yet

To start, set a course goal by selecting the option below that best describes your learning plan.

Earn a certificate | Complete the course | Explore the course

Collapse All

- Programming for the Web with JavaScript : Getting Started
  - Welcome to Programming for the Web with JavaScript
    - Welcome from the SD4x Team
    - Welcome Note from Prof. Chris Murphy and Prof. Swapneel Sheth
    - Syllabus
    - Student Code of Conduct
  - Introduce Yourself
    - Introduce Yourself
  - Professional Certificate - Verification Required
    - Professional Certificate in CS Essentials for Software Development
  - Assessing and Submitting Assignments
    - Submitting Assignments using Codio
  - Pre-Course Survey
    - Pre-Course Survey
- Week 1: Web Programming Basics
  - Basics of the World Wide Web
    Quiz
    - Introduction to Week 1
    - Introduction to the Internet and the World Wide Web - Video 1.1
    - Quiz 1.1
    - How a Web Browser Works - Video 1.2
    - Quiz 1.2
  - Developing Web Pages with HTML
    Quiz
    - Introduction to HTML - Video 1.3
    - Quiz 1.3
    - Basic HTML - Video 1.4
    - Quiz 1.4
    - HTML Formatting and Attributes - Video 1.5
    - Quiz 1.5
    - Introduction to CSS - Video 1.6
    - Quiz 1.6
    - HTML Lists and Forms - Video 1.7
    - Quiz 1.7
    - HTML links, images, and tables - Video 1.8
    - Quiz 1.8
    - Responsive Web Design with Bootstrap - Video 1.9
    - Quiz 1.9
  - Homework 1 - HTML
    Homework
    - Homework 1 - HTML
  - Discussion
    - Discussion
- Professional Certificate - Verification Reminder
  - Professional Certificate - Verification Reminder
    - Verify now!
- Week 2: Using JavaScript to Create Dynamic, Data-Driven Web Pages
  - JavaScript Basics
    Quiz
    - Introduction to Week 2
    - Introduction to JavaScript - Video 2.1
    - JavaScript variables - Video 2.2
    - Quiz 2.1
    - JavaScript arrays and objects - Video 2.3
    - Quiz 2.2
    - JavaScript control structures - Video 2.4
    - Quiz 2.3
    - JavaScript functions - Video 2.5
    - Quiz 2.4
    - JavaScript regular expressions - Video 2.6
    - Quiz 2.5
  - Homework 2 - JavaScript
    Homework
    - Homework 2 - JavaScript
  - Using JavaScript in Web Pages
    Quiz
    - Introduction to the DOM - Video 2.7
    - Quiz 2.6
    - DOM events - Video 2.8
    - Quiz 2.7
    - Introduction to jQuery - Video 2.9
    - Quiz 2.8
    - jQuery event handling - Video 2.10
    - Quiz 2.9
    - jQuery event handling - Video 2.11
    - Quiz 2.10
  - Homework 3 - jQuery
    Homework
    - Homework 3 - jQuery
  - Discussion
    - Discussion
- Week 3: Client-Side Frameworks for Developing Modular Web Page Components
  - Developing Web Applications with React
    Quiz
    - Introduction to Week 3
    - Introduction to React - Video 3.1
    - Quiz 3.1
    - React components - Video 3.2
    - Quiz 3.2
    - React events - Video 3.3
    - Quiz 3.3
  - Homework 4 - React
    Homework
    - Homework 4 - React
  - Advanced Component Design for React
    Quiz
    - React component interaction - Video 3.4
    - Quiz 3.4
    - React component interaction - Video 3.5
    - Using APIs with React - Video 3.6
    - Quiz 3.6
    - React application development - Video 3.7
    - Quiz 3.7
  - Homework 5 - React
    Homework
    - Using Codio for Homework 5 - Video 3.7a
    - Homework 5 - React
  - Creating Data-Driven Web Content with D3.js
    Quiz
    - Introduction to ES6 - Video 3.8
    - Quiz 3.8
    - Introduction to D3.js - Video 3.9
    - Quiz 3.9
    - Creating charts with D3 - Video 3.10
    - Quiz 3.10
    - Using data with D3 - Video 3.11
    - Quiz 3.11
  - Discussion
    - Discussion
- Week 4: Building Scalable Web Apps with Server-Side JavaScript
  - Developing Web Applications with Node.js
    Quiz
    - Introduction to Week 4
    - Introduction to Node.js - Video 4.1
    - Quiz 4.1
    - Node requests and responses - Video 4.2
    - Quiz 4.2
    - Node routing and middleware - Video 4.3
    - Quiz 4.3
    - Sending user data to Node - Video 4.4
    - Quiz 4.4
    - Using EJS with Node - Video 4.5
    - Quiz 4.5
  - Databases and Web Applications
    Quiz
    - Introduction to MongoDB - Video 4.6
    - Quiz 4.6
    - Querying data in MongoDB - Video 4.7
    - Quiz 4.7
    - Advanced MongoDB queries - Video 4.8
    - Quiz 4.8
    - Developing an API with Node and MongoDB - Video 4.9
  - Homework 6 - Node
    Homework
    - Using Codio for Homework 6 - Video 4.10
    - Homework 6 - Node
  - Discussion
    - Discussion
- Final Survey
  - Survey
    - Final Survey

Course Tools

- Bookmarks
- Updates
- Upgrade to Verified

Important Course Dates

Today is Dec 12, 2018 10:34 AWST

Course End
in 2 years - Oct 1, 2020

After this date, course content will be archived.

Course Handouts

1. **SD4x Course Syllabus**
2. **DemoX Course for new edX users**

© 2012–2018 edX Inc.
edX, Open edX, and MicroMasters are registered trademarks of edX Inc. | RECP & 170442991-2