

קורס פיתוח ל Web

Course Duration

56 Academic Hours (7 Days).

Target Audience

Developers who want to upgrade their skills to the web development.

Prerequisites

Programmers with knowledge in any programming language.

Part 1 – Introduction to Web Development (4 days)

Description

In this 5 days course we will cover all the basics needed for become a web developer. By the end of this course we'll be able to describe the structure and functionality of the world wide web, create dynamic web pages using a combination of HTML, CSS, and JavaScript, apply essential programming language concepts when creating HTML forms

Topics

Module 1 : Web System Architecture and Concepts

- Architecture Model
- Client – Server Round-Trip
- Protocols
- Challenges with Web Sites Development and Implementations
- Client Side Technologies (HTML , CSS , JavaScript)
- Cookies vs Sessions

Module 2: Markup Language and HTML

- Document
- Elements
- Paragraph , Heading and Text
- Links
- Images
- Lists
- Tables
- Divs
- Forms
- Post vs. Get
- Layout
- User input validation
- HTML 5 new markups
 - New inputs
 - Output
 - Place holder
 - Validation (required, min, max)
 - Data List

Module 3: Cascading Style Sheet

- CSS - What is it ?
- The application benefits
- 3 style layers : Inline, Inner and Outer
- Layout basics with CSS
- Introduction to bootstrap

Module 4 : DHTML with Java Script

- HTML "DOM" & "BOM"
- ES vs. Java Script vs. Type Script
- Variables & types
- Arrays
- Functions
- Events
- DOM Manipulation
- Styles Manipulations
- JSON
- Classes & Objects
- Introduction to AJAX

Module 5 : Java Script Advanced Topics

- Closures
- Debugging & Profiling
- Error Handling
- ES6 – ES8
- Introduction to promises
- Introduction to Web Services (SOAP, REST)

Part 2 – Angular 7 (3 days)

Description

Angular 6 is the next version of Google's massively popular MV* framework for building complex applications in the browser (and beyond).

Angular 6 comes with almost everything you need to build a complicated frontend web or mobile apps, from powerful templates to fast rendering, data management, HTTP services, form handling, and so much more.

Topics

Module 1 - Introduction to Angular 6

- MVC , MVVM , SPA With Angular
- Why Angular 6 ?
- AngularJS Vs. Angular 2 Vs. Angular 4 Vs. Angular 6
- Development Environment

Module 2 – Type Script & ECMA Script 6

- Interfaces
- Import/Export
- Classes & Objects
- Promises
- Arrow functions
- Maps Filter & Reduce
- Decorators

Module 3 – Basic Architecture

- Angular 6 architecture
- How angular 6 works

- The model
- The components
- Components Definition & Composition

Module 4 - Components

- Shadow DOM
- Components Definition
- Components Composition
- Templates & Styles
- Core Directives

Module 5 – Components Internals

- Nested Components
- Components Definition
- Data Projection
- Component Inputs by Properties
- Component Output by Events

Module 6 - Forms

- Model driven
- Template driven
- Form Builder
- Adding some validation
- Errors and submission
- Creating a custom validator
- Grouping fields
- Reacting on change

Module 7 – Services & DI

- Dependency Injection
- The role of service
- Built in services
- Custom services



Module 8 – Communicating The Server

- Modern Web System Architecture
- The http provider
- RESTfull service basics
- RXJS

Module 9– Routing & SPA (Single Page Application)

- What is Routing
- The need for routing
- Routing options
- Path Location
- Passing parameters
- Nested routes

Module 10– Application Lifecycle Topics

- Debugging
- Profiling
- Unit Testing
- Deployment