

UI Technologies with full stack (3 months)

(HTML5, CSS3, JavaScript ES6, JQuery, AJAX, TypeScript, Bootstrap 4, Node JS, Express JS, Mongo DB, Angular JS, Unit Testing)

Introduction to UI / UX

Web Application Architecture
List of Technologies used to Web Development
Understanding project development process
List of environments involved in Development
Types of Software Companies
Roles of UI Developer
Roles of UI Designer
Difference between UI Developer & UI Designer

Tools Used for UI / UX

Development Environment Setup
Installation of Editors like WebStorm IDE
Installation of Node JS
Installation of Live Server
How to download source code for development
Integrate the source code with the editor
Usage of live server
Usage of Source Code

Basics of UI

Introduction to Web

Introduction to HTML 5

How it works
Structure of an HTML Doc
HTML First Application
Rules of HTML coding
HTML Headings
HTML Paragraphs
HTML DIV Tag
HTML Span Tag
HTML Text Formatting Tags
HTML Un ordered Lists
HTML Ordered Lists
HTML Images
HTML Tables
HTML Links
HTML Entities
HTML I frames

(The Great India Website)

HTML forms

Introduction to HTML Forms
HTML Form Elements like Input, text area, select Box, data list etc.

HTML Form Input Types

HTML Form Attributes

HTML Field Set & Legend Tags

(Online Job Application Form)

Layout Elements in HTML 5

Introduction

HTML Header Tag

HTML footer Tag

HTML Section , Article Tags

HTML Aside Tag

HTML Nav Tag

HTML figure , figcaption tags

HTML Details , Summary tags

HTML Audio , Video tags

(Corporate Training Website)

Introduction to CSS3

Introduction,

CSS Selectors, CSS Pseudo classes selection

Inline CSS, Internal CSS, External CSS

CSS Basics

CSS Colors RGB , HEX , HSL , RGBA , HSLA

CSS Backgrounds

CSS Borders

CSS Margins

CSS Paddings

CSS Outlines

CSS Text Formattings

CSS Fonts

CSS Links

CSS Tables

CSS Positions

CSS Box Model

CSS Display Properties

CSS Floats

CSS Vertical Navigation bar

CSS Horizontal Navigation bar

CSS Dropdowns

CSS Dropdown Navigation bar

CSS Tooltips

CSS Forms

CSS Image Gallery

CSS 2D Transformation

CSS 3D Transformation

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CSS3 Transitions

CSS3 Animations

CSS3 Advanced Animations

CSS3 Custom Buttons

CSS3 Real time Usage of Transformations

(Technology Portal Website)

(Online Resume Website)

JavaScript with ES6

Introduction to JavaScript

JavaScript features

Understanding Runtime Env

Why to Learn JavaScript

Setting up Development Env

JavaScript Variable Declaration

JavaScript Data Types

JavaScript Operators

JavaScript Conditional Statements

JavaScript Intro Data Structures

JavaScript Objects

JavaScript Arrays

JavaScript Functions

JavaScript Math , Date , String , Number Objects

JavaScript DOM Intro

JavaScript DOM Manipulations

JavaScript Event Handling

JavaScript Event Listeners

JavaScript Form validation

JavaScript Number App

JavaScript Calculator App

JavaScript SMS App

JavaScript Digital clocks

JavaScript Dependent Select Boxes

(JavaScript Typing Tester App)

Advanced JavaScript

JavaScript Callback Functions

JavaScript Promises

JavaScript Scopes & Closures

ES6 features

ES6 Template Strings

ES6 for-of loops

ES6 Lambda / Arrow Functions

ES6 DE structuring Concept

ES6 Spread Operators

ES6 Classes

ES6 Inheritance with Classes

ES6 Collections like Map , Set

JavaScript Exception Handling

(JavaScript Book Store App)

JQuery

Introduction

JQuery Basics

JQuery Selectors

JQuery Events

JQuery Effects

JQuery Examples

JQuery DOM Manipulation

JQuery forms Manual

JQuery forms Automatic

JQuery with Bootstrap App

JQuery Magnifier Plugin

JQuery Count To Plugin

JQuery Gauge Plugin

JQuery Calculator App

JQuery Dependent Select boxes

JQuery Form Validation

AJAX Basics

JSON Basics

JavaScript AJAX

JQuery AJAX

JQuery AJAX with Bootstrap

(JQuery Typing Tester App)

(JQuery Employee Registration App)

TypeScript Development

Introduction to TypeScript

TypeScript Overview

Differences between JavaScript and TypeScript

TypeScript Editors

Installing TypeScript

Project Setup in TypeScript

TypeScript Hello World

TS Data Types

TS Enums

TS Functions

TS Default Arguments

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TS Optional Arguments
TS Function Overloading
TS Interfaces
TS Classes
TS Constructors
TS Methods
TS Getters & Setters
TS Lambda Expressions

Bootstrap 4

What is Bootstrap?
Features of Bootstrap
History of Bootstrap
Bootstrap Overview
Bootstrap Installation
Tools Used for Web Development
Setting Development Environment
Bootstrap First Application
Bootstrap Components Overview
Basic Typography
Text Alignment & Display
Floats Position in Bootstrap
Colors Background
Spacing in Bootstrap
Sizing in Bootstrap
Breakpoints in Bootstrap
Buttons in Bootstrap
Navigation bars in Bootstrap
List groups and Badges in Bootstrap
Forms in Bootstrap
Input groups in Bootstrap
Alerts & Progress bars in Bootstrap
Tables & Pagination in Bootstrap
Cards in Bootstrap
Media Objects
Grid System in Bootstrap
Grid Alignments in Bootstrap
Flex boxes in Bootstrap
Auto margin & wrapping order in
Carousels in bootstrap
Collapse classes in Bootstrap
Tooltips in Bootstrap
Popovers in Bootstrap
Modals in bootstrap

(Corporate Website Using Bootstrap)

(Admin Dashboard Website Using Bootstrap)

Node JS

What is Node JS?
Why Use Node JS
Features of Node JS
Traditional Webserver Model
Node JS webserver Model
Node JS Installation
Node JS Console, REPL
REPL Commands
Node JS Basics
Node JS Modules Intro
Export and Import Modules
Node JS Core Modules
Node JS Custom Modules
Node JS npm Modules
Creating Node JS Web Server
Node JS Routing System
Frameworks for Node JS

Express JS

Introduction to Express JS
Express JS Installation
Creating Webserver using Express JS
Express JS Routing System
Handling Requests with Express JS
GET Request Parameters with Express JS
GET Request Queries with Express JS
POST Request handling with Express JS
Serving Static files with Express JS
MVC architecture with Express JS
Express JS with Bootstrap Integration
Template Engines Introduction
Express Generator Tool and Usage
EJS Template Engine and Usage
EJS Template Engine with Bootstrap App
PUG / JADE Template Engine and Usage
PUG Template Engine with Bootstrap App
HBS Template Engine and Usage
HBS Template Engine with Bootstrap App

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Mongo DB

Introduction to Databases
Advantages of Mongo DB over RDBMS
Installation of Mongo DB
Usage of Mongo DB Shell
Mongo DB Create / DROP Database
Mongo DB Create / DROP Collections
Mongo DB READ operations
Mongo DB UPDATE Operations
Mongo DB DELETE Operations
Integration of MongoDB to Node JS App
Integration of MongoDB to Express JS Web App
Integration Express JS , MongoDB , Bootstrap
Server Side Form Validation using Express Validator

(ACT Service Website using Express JS, Mongo DB)

Angular JS

Introduction
What is Single Page Application?
Declarative vs Imperative Programming
How Angular Application Works
First Angular JS Application
Angular Directives
Angular Controllers
Angular Modules
Dependency Injection
Two way Data binding
Examples of Two way Data binding
Ng-init and ng-if Directives
Ng-model directives example
Angular JS Clock App
Angular JS Nested Controllers
Angular JS Controller As Syntax
Angular JS Calculator App
Ng-show , ng-hide examples
Ng-repeat directives example
Angular JS Number Selection App
Angular JS Real world TODO App
(Angular JS Invoice App)

Final Mini Project (Angular JS, Bootstrap 4, Node JS, Express JS, Mongo DB)

Unit Testing with JavaScript

Introduction to Unit Testing
Importance of UNIT Testing
Introduction to JavaScript Testing Libraries
Mocha Testing Library
Chai, Simon Testing Library
Introduction to Test Coverage
Istanbul Test Coverage Tool
JEST Testing Framework for JavaScript

Future Learnings and careers opportunities of UI and Certification in UI, Resume Preparation, Mock Interviews.

Course Highlights:

- 1) **Complete Real Time Oriented** Course Structure
- 2) **Laptops** are mandatory for attending this course.
- 3) Each Technology will be covered from **Zero** to **Hero** strategy.
- 4) Each Technology is perfectly organized with **Starter Template** and **Completed Template**.
- 5) Complete Source code will be provided time to time after completion of each Technology.

Thanks for your interest in learning and Development of UI Technologies.

Naveen Saggam