

# UI / UX / Frontend Development (60 days)

(HTML5, CSS3, JavaScript, JQuery, TypeScript, ES6, Bootstrap 4, Angular JS)

## Introduction to UI / UX

Roles of UI Developer

Roles of UI Designer

Difference between UI Developer & UI Designer

Technologies required for UI Development

## Tools Used for UI / UX

Notepad++, Atom, Sublime Text, Brackets

Visual Studio Code, WebStorm IDE

Live Server using npm

All tools installation and usage

## 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

Header Tags, Paragraph tag

DIV tag, Span Tag, Text Formatting

Unordered List, Ordered List

Images, Tables, Links, HTML Entities, Iframes

**Mini Project (The Great India Website)**

## Forms in HTML 5

Introduction, Form Elements

Input Types, Attributes

**Mini Project (Online Job Application)**

## Semantic Elements in HTML 5

Introduction

<Section>, <Article>, <Header> <Footer>

<Aside>, <nav>, <figure>, <figcaption>

<Details>, <Summary>, <time>, <main>

**Mini Project (Company Website)**

## Media Elements in HTML 5

<audio>, <video>

## Introduction to CSS3

Introduction,

CSS Selectors, CSS Pseudo classes selection

Inline CSS, Internal CSS, External CSS

Div, Id, Classes, Colors, Borders

Margins, Paddings, Text-formatting

Fonts, Lists, Styling Links, Tables, Box Model

Display, Position, Float, Align, Pseudo Elements

Navbars, Tooltips, Forms, Opacity, Image Gallery

## 2D Transforms in CSS 3

Introduction

translate(), rotate(), scale(), skewX(), skewY()

skew(), matrix()

## 3D Transforms in CSS 3

Introduction

RotateX, RotateY, RotateZ

## Transitions in CSS3

Introduction

Transition & Transformation

Speed Curve, Delay Transition

## Animations in CSS3

Key frames rule, Delay Animation

Specify animation speed curve

Animation shorthand

## Images in CSS3

Rounded Images, Thumbnail Images, Image Text

## Buttons in CSS3

Basic Button Styling, Buttons Colors, Button Sizes,

Rounded Buttons, Hover able Buttons

Shadow Buttons, Disabled Buttons

Button Groups, Animated Buttons

**Mini Project (Technology Portal Website)**

## Basic JavaScript

Introduction to JavaScript

JavaScript features

Understanding Runtime Env

Why to Learn JavaScript

Interesting Facts of JS

History of JavaScript

Setting up Development Env

JavaScript Basics

Inline JavaScript

Internal JavaScript

External JavaScript

Variable Declaration in JS

JS Data Types

JS Operators

JS Conditional Statements

JS Objects

JS Arrays

JS Functions

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JS Math & Date Objects

JS DOM Manipulation

## Advanced JavaScript

JS Scopes Concepts

JS Advanced functions

JS Closures

JS Objects advanced

JS Prototypes

JS Objects Inheritance

**Mini Project (Typing Speed Tester App)**

## JQuery

Introduction

JQuery selectors

JQuery Events

JQuery Effects

JQuery with HTML

## ECMA Script 6 Features

Default Parameters

Template Strings

Let & Const

For....of loops

Lambdas

Destructing

The Spread Operator

Computed Properties

## 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

TS Optional Arguments

TS Function Overloading

TS Interfaces

TS Classes

TS Constructors

TS Methods

TS Getters & Setters

TS Lambda Expressions

## Bootstrap 4 Development

### Introduction

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

Navbars 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

## Introduction to Angular JS

Introduction

What is Single Page Application?

Declarative vs Imperative Programming

How Angular Application Works

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First Angular JS Application

Angular Directives

Angular Controllers

Angular Modules

Dependency Injection

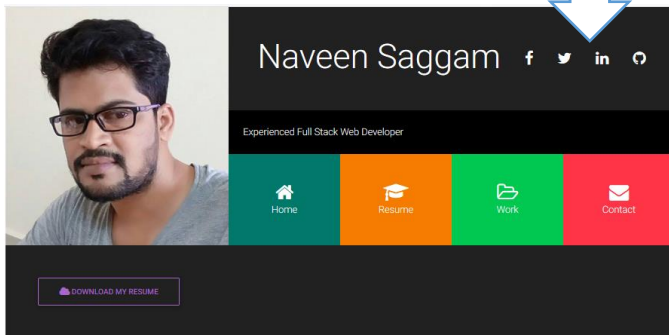
Two way Data binding

Examples of Two way Data binding

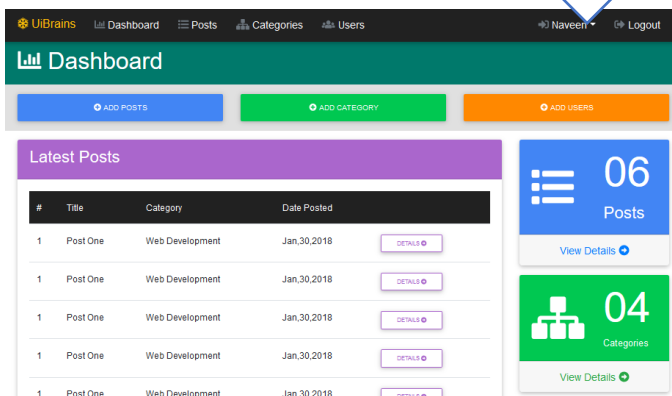
**Mini Project (Simple Angular JS App + Bootstrap 4)**

## Major Real Time Projects & live Coding

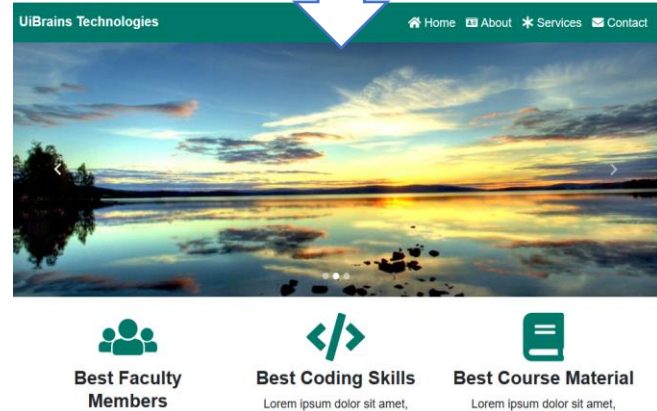
### 1) Online Resume Website



### 2) UI Dashboard website



### 3) Corporate website



## Course Highlights:

- 1) Please note we are going to develop **6 Mini Projects** and **3 Major Projects** with live coding in this entire course.
- 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) **Real Time Oriented** Course Structure.
- 6) Complete Source code will be provided to you time to time after completion of each technology.

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

- *Naveen Saggam*

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