**Front End Development Technologies**

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| Angular 10 - The Complete Guide | | | | | | |
|
| **No of hours required : 72** | | | | | | |
|  | | | | | | |
|  |  |  |  | **HTML 5** |  |  |
|  |  |  |  | **CSS 3** |  |  |
|  |  |  |  | **Bootstrap 4.5** |  |  |
|  |  |  |  | **JavaScript** |  |  |
|  |  |  |  | **TypeScript** |  |  |
|  |  |  |  | **Angular 10** |  |  |
|  |  |  |  | **Course project** |  |  |
| **Name of the topic** | | | | **Concepts of the topic** | | **No of hours** |
| **Introduction to**  **web app** | | | | Web application basic | | 1 |
| Client and server architecture | |
| Browser fundamentals | |
| Front end & Back end of app | |
| HTTP protocol basics | |
| **HTML** | | | | Introduction to HTML | | 6 |
| Web page architecture | |
| Anotomy of HTML element | |
| All important elements of HTML | |
| **CSS** | | | | Pupose of CSS and def os style | | 6 |
| Attaching CSS to HTML document | |
| Selector as tag, class and id | |
| Colors and backgrounds | |
| Borders | |
| Spacing properties | |
| Height , weight and Box model | |
| Fonts , icons and links | |
| Lists and tables | |
| Position | |
| Text effects & shadows | |
| **Bootstrap** | | | | Mobile-first ,Page responsiveness & containers | | 10 |
| Grid layout | |
| Typography, Colors | |
| Tables & images | |
| Alerts , Buttons & Badges | |
| Dropdown and Collapse | |
| Nav , navbar and forms | |
| Modal , carousel and tooltip | |
| Media objects & Bootstrap icons | |
| Flex | |
| **JavaScript** | | | | JS Engine of browsers | | 20 |
| Comments & Variables | |
| Operators & Datatypes | |
| Control statements | |
| Function declaration & expressions & arrow functions | |
| Objects and operations on it | |
| Strings & methods | |
| Arrays & methods | |
| Events | |
| window and document objets | |
| variable and function hoisting | |
| Compiler, scope and JS engine interaction | |
| Closures | |
| Prototypal inheritance | |
| classes and class based inheritance | |
| **TypeScript** | | | | Dadatypes | | 4 |
| classes and interfaces | |
| Acess modifiers | |
| Constructors | |
| Exporting and importing classes | |
| **Angular Framework** | | | | Angular architecture | | 25 |
| Modules and components | |
| Data binding techniques | |
| Structural directives | |
| Component nesting & Interaction | |
| Routing & Navigation | |
| Services & Dependency injection | |
| HTTP Client | |
| Observables & rxjs | |
| Pipes | |
| JSON Server | |
| Security | |
| **Total no of hours(On average)** | | | | | | **72** |
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