



# Adhyayan

IT TRAINING AND PLACEMENT



## Front End Syllabus

+91 869-869-3458  
Adhyayann, Office No.306,  
3rd Floor, Krishnai Plaza,  
Karve Nagar, Pune

[www.adhyayann.com](http://www.adhyayann.com)  
+91 869-869-3458

# Front End Syllabus

## HTML

- Introduction
- Basic Formatting Tags
- Grouping Using Div Span
- Lists
- Images
- Hyperlink
- Table
- frame
- Form
- Headers



## CSS2

- Introduction
- Syntax
- Selectors
- ColorBackground
- Text Fonts
- Lists Tables
- Box Model
- Display Positioning
- Floats



## JavaScript

- Introduction
- JS in HTML
- HTML DOM (Document Object Model)
- JS Console
- JS Debugging
- JS var
- Arrays
- JS Objects
- JS Functions
- JS dialog boxes
- HTML Attributes etc.



## Advance JavaScript

- Variable Hoisting in JavaScript
- JS let & const
- Model
- Arrow function
- Find, Filter & Map function
- JS Object Constructors
- String & Template literals
- Event in JS
- Class
- Map & Set



## Bootstrap

- Introduction of Responsive Bootstrap
  - i. Introducing Bootstrap
  - ii. Creative a Simple Page
  - iii. Enhancing the Page
- Responsive Layouts with the Bootstrap Grid
  - i. Introducing of Grid
  - ii. How the Bootstrap Grid Works
  - iii. Layout in Bootstrap
  - iv. Styling Content
- Using Bootstrap Components
  - i. Building a Navbar
  - ii. Adding Buttons and Button Groups
  - iii. Horizontal Nav and Dropdown Buttons
  - iv. Displaying Content with Cards
  - v. Building the List Group
- Building Forms with Bootstrap
  - i. Form Groups and Form Controls
  - ii. Custom Form Controls for Cross-Browser Consistency
  - iii. Structured Form Layouts with the Grid
  - iv. Adding Validation Styles

# Angular

## Angular installation

- node.js
- Angular-cli
- Visual Studio code

## Angular Project Flow(Folder Structure)

### Types of data bindings in Angular

- String interpolation
- Property Binding
- Event Binding
- Two way Data Binding

### Decorators used in Angular

- @Component
- @NgModule
- @Injectable
- @Input
- @Output
- @HostListener
- @directives
- @pipes

### Pipes in Angular

- What is pipes?
- How to use pipes in angular?
- Types of pipes
  - Custom pipes
  - Predefine pipes

### Directives in Angular

- What is directives in angular?
- How to use directives
- Types of directives
  - Structural directives
  - Attribute directives
  - Custom directives

## Services in Angular

- What is services in angular?
- How to use services
- How to generate services

## Angular CRUD

- Insert data to database
- Get data from database
- Update data in database
- Delete data from database

## Json-Server

- How to install json-server
- How to use json-server

## Bootstrap & Font-Awesome

### Library Installation

## Angular material

- Material table
- Material form

## Angular Forms

- Template driven forms
- Reactive forms
  - Form builder
  - Form Group
  - Form Control

## Routing

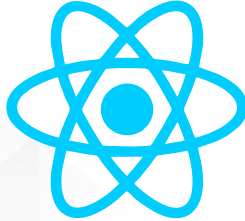
- What is Routing?
- Advantages of routing
- How to use routing
- Child Routing

## Mini Project



# React JS

- React JS Introduction
- Advantages of scripting languages
- Features, Advantages & Limitations of React JS
- Setting up Environment
- Module Import-Export
- JSX in Depth
- Babel compiler in React JS
- Components in React JS
- Props in React JS
- Fragments in React JS
- Bootstrap in React JS
- Bootstrap-icon in React JS
- React Conditional Rendering
- API Call in React
- Hooks in React JS
- tus Completo Java Clas
- Context in React JS
- Form in React JS
- React Router



# Mini Project

## Node JS

- 1) Introduction to Node JS
  - Introduction
  - What is Node JS?
  - Advantages of Node JS
  - Node.js Process Model
- 2) Setup Dev Environment
  - Install Node.js on Windows
  - Install in mac os
  - Working in REPL
  - Node JS Console
- 3) Node JS Modules
  - Functions
  - Buffer
  - Module
  - Module Types
  - Core Modules
  - Local Modules
  - Module. Exports

- 4) Node Package Manager
  - What is NPM
  - Installing Packages Locally
  - Adding dependency in package.Json
  - Installing packages globally
  - Updating packages
- 5) Creating Web server
  - Creating web server
  - Handling http requests
  - Sending requests
- 6) File System
  - Fs.readFile
  - Writing a File
  - Writing a file asynchronously
  - Opening a file
  - Deleting a file
  - Other IO Operations
- 7) Debugging Node JS Application
  - Core Node JS debugger
  - Debugging with Visual Studio
- 8) Events
  - EventEmitter class
  - Returning event emitter
  - Inhering events
- 9) Express.JS
  - Configuring routes
  - Working with express
- 10) Database connectivity
  - Connection string
  - Configuring
  - Working with select command
  - Updating records
  - Deleting records
- 11) Develop a web application which involves database operations

