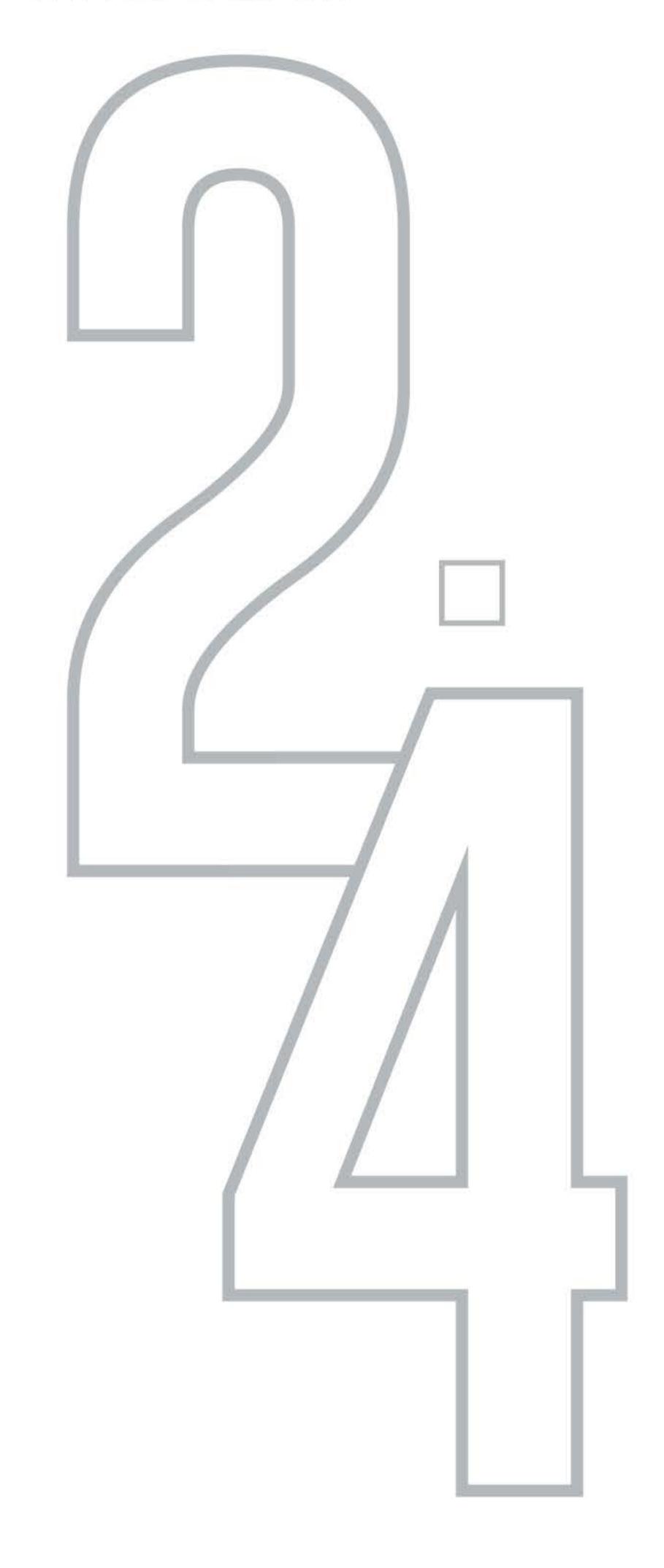


## 





SR. CODE

EAPL/PROF/PRTC07

COURSE CODE

**EAPFR** 

SUB CATEGORY

FULL STACK DEVELOPMENT







JS FAMILY ELYSIUM ACADEMY FULL STACK DEVELOPER JS FAMILY





### **COURSE DESCRIPTION**



Full Stack Web developer course starts with introducing participants with front-end technologies (ex: HTM5) and makes them develop responsive one page web application. Followed by that it deep dives into Full stack components and brings hands-on perspective to building scalable web applications by leveraging "JavaScript everywhere" phenomenon. Throughout the course foundation paradigms are stressed to ensure participants clearly understand software engineering fundamentals and apply them.

### **COURSE GOALS**



The course covers various data-exchange mechanisms (ex: HTTP) to get complete perspective of Full Stack. When you navigate easily through a website or see those pretty designs on a website, a full stack developer is at work to make every experience easy for you.

### **FUTURE SCOPE**



A full-stack developer is a professional who can work with all layers of an application. The role can be compared to that of a chef who prepares the entire meal, not just one dish. The full-stack developer has a wide range of skills from backend development to frontend and mobile app development.





## CHAPTER CHAPTER

## HTML

### 01. HTML Overview

- a. HTML Editing Tools
- b. Document Structure
- c. HTML Tags
- d. Information browsers ignore
- e. Specifying Color in HTML

## 02. Structural HTML Tags

- a. Setting up an HTML document
- b. Using Tags
- c. Formatting Text
- d. Introduction to frames

## O3. Adding images and other page elements

- a. Horizontal rules
- b. The Image basics
- c. The IMG tag and its attributes
- d. Media queries

## 04. Tables

- a. Introduction to tables
- b. Affecting table appearance
- c. Table troubleshooting
- d. Standard table templates
- e. Multipart images in tables

## O5. Forms

a. The basic form (FORM)







- b. The FORM elements
- c. The New FORM attributes (HTML 4.0)
- d. Affecting the appearance of forms
- e. Unconventional use of FORM elements

## CSS

## 01. Basic styling of web pages using

- a. Concept of CSS
- b. Creating Style Sheet
- c. CSS Properties

## O2. Manipulate the display & position of HTML elements

- a. Setting up the initial HTML and CSS files
- b. Using the inline block value
- c. Changing a Table to Use a Display block
- d. Adding Small screen content Element

## O3. Understand the Box Model concept

- a. Introduction,
- b. Border properties,
- c. Padding Properties,
- d. Margin properties









## O4. Design mobile friendly web pages using CSS Media Queries

- a. RWD Introduction
- b. RWD Viewport
- c. RWD Gridview
- d. RWD Media Queries
- e. RWD Images
- f. RWD Videos
- g. RWD Frameworks
- h. RWD Templates

## O5. Animate HTML elements using CSS animate property

- a. CSS Animation
- b. CSS Animation property
- c. Delay an Animation
- d. Run Animation in reverse Direction or Alternate Cycles
- e. The speed curve of the Animation
- f. The fill-mode of an Animation

## O6. Web page Layouts - CSS Flex Box & CSS Grid

- a. How to Build the Navigation Bar
- b. How to Build the Showcase Section
- c. How to Build the Lower Section
- d. How to Build the Footer Section
- e. How to Make the Page Responsive





## BOOTSTRAP

## 01. The Grid Layout

- a. Grid System
- b. Stacked/Horizontal
- c. Grid small
- d. Grid large
- e. Grid medium
- f. Grid XXL

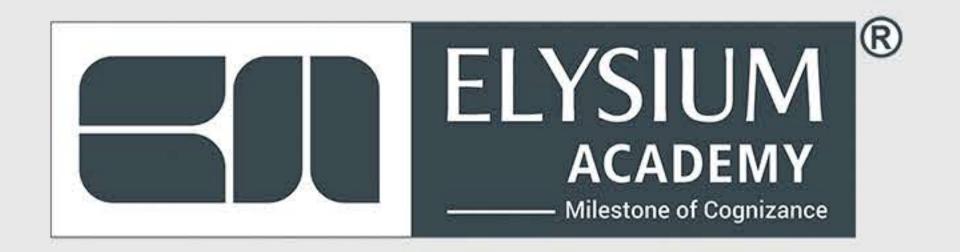
## 02. Buttons and Dropdowns

- a. Adding Dropdowns via Data Attributes
- b. Dropsdown within a navbar
- c. Dropdowns within button
- d. Bootstrap Split button dropdown
- e. Dropdowns inside Button Groups
- f. Creating Dropup, Dropleft and Dropright Menus
- g. Creating the Right Aligned Dropdown Menus
- h. Adding Headers to Dropdown Items
- i. Disable Items within a Dropdown
- j. Adding Dropdowns via JavaScript
- k. Methods toggle, show, hide, update, dispose, Events

## 03. Navigation bar

- a. Adding Logo images to Navbar
- b. Adding Dropdown to Navbars
- c. Placing search from inside Navbar
- d. Creating the color scheme for Navbars
- e. Bootstrap fixed Navbar
- f. Creating Navbar with Bootstrap







## 04. Images and media

- a. Styling images with bootstrap
- b. Creating Response images and videos
- c. Horizontal alignment of images
- d. Using the media object
- e. Creating Nested media object

## CHAPTER

## JAVA SCRIPT

## 01. Introduction to Javascript

- a.Applying Javascript (internal and external)
- b. Understanding JS syntax
- c. Variables
- d.Data types
- e. Operators and termany operators
- f. Num type conversion

## O.2. Objects and arrays

- 0.3. Date and time
- 04. Conditional Statements
  - a. switch case
  - b. looping in JS

### 05. Functions

- a. Types of functions (Arrow functions)
- b. Rest and default parameters









## 06. Document Object Model

- a. Document structure
- b. Selecting document elements and query selectors
- c. Moving thorough DOM tree
- d. HTML elements and attributes
- e. Creating, changing and deleting nodes

## 07. Handling Events

- a. Event propagation
- b. Event handlers registering and invocation
- c. Event object
- d. Types of event

## 08. Ajax

- a. JavaScript and HTTP comunication
- b. Synchronous and asynchronous requests



## JQUERY

## 01. JQuery Basics

- a. Introduction
- b. JQuery Syntax
- c. JQuery Selectors

## 02. JQuery Events







## 03. JQuery Effects

- a. JQuery Hide/Show
- b. JQuery Fade
- c. JQuery slide
- d. JQuery Stop()
- e. JQueryCallback()

## 04. JQuery HTML

- a. JQuery Get/Set
- b. JQuery Add/Remove
- c. JQuery CSS Classes

### 05. Json

- a. Fetch Json file
- b. create Json & stringity methods for Json title

## CHAPTER

## NODE JS

## 01. NodeJS Overview

- a. NodeJS-Basic and installation setup
- b.NodeJS console
- c. NodeJS modules

## 02. About Express

- a. What is express JS
- b. Why use express JS
- c. Installation setup
- d. Express request
- e. Express response
- f. get, post, put and delete







- g. express routing
- h. Rest full API's
- i. Express JS template, static files

## MONGODB

## 01.About Mongodb

- a. What is Mongodb
- b.No SQL database
- c. Advantages over RDBMS

### 02. Collections

- a. create, insert, find, update
- b. drop collection
- c. CRUD document



## REACT JS

## **O1.Introduction to React JS**

- a. what is react
- b. why react/react version
- c. using create-react app
- d. anatomy of react project
- e. running the app

## **02.Templating using JSX**

## 2.1 Working with React JSX

- a. expressions
- b. specifying attributes
- c. fragments









## 03. About Components

## 3.1 Types of components

- a. Functional components
- b. class components

## 04. Working with State and Props

- a. what is state and props
- b.purpose of state and props
- c. passing data to components using props and state

## 05. Rendering lists

- a. using react key
- b. using map function to iterate on a arrays to generate elements

## **06.Event handling in React JS**

- a. understanding React events
- b. passing arguments to event handlers understanding components

## 07.Understand the life cycle methods

### O8.Hooks

- a. purpose of hooks
- b. create hooks
- c. different types of hooks
- d. using state and effect hooks
- e. rules of hooks





## 09.Working with react forms

- a. React JS form validation
- b. How to write styles on it

## 10. Routing with react-router

- a. setting up react-router
- b. understanding router in single page application
- c. working with browser router components
- d. navigating to pages using link components

### 11. Redux

- a. What is redux
- b. Why redux
- c. redux principles
- d. install& setup redux

## 12.React - Redux

- a. what is react redux
- b. why react redux
- c. install and setup
- d. Action reducers and stop





## MATERIAL UI

### 01.Introduction

- a. Advantage of material UI
- B. Material UI vs Base UI
- c. Installation

## 02. Material Designs

- a. with styled components
- b. peer dependencies
- c. roboto font
- d. google web fonts
- e. Icons, cdn



## GHAPTER

## ANGULAR

- a. What is angular
- b. Angular CLI
- c. Setup a project
- d.Setup Node JS with angular
- e. Create your first app



## CHAPTER

## MODULES AND COMPONENTS

- a. What is components in angular JS
- b. What is module in angular JS
- c. C. create and start component
- d. Why components are important
- e. Create components using CLI
- f. What is nesting component
- g.Component styles and selectors







## DATA BINDING

- a. What is data binding
- b. String interpolation
- c.C. property binding
- d.Difference between proper binding and string interpolation
- e. What are binding properties and events
- f. Two way binding



## THE CHAPTER

## DIRECTIVES IN ANGULAR JS

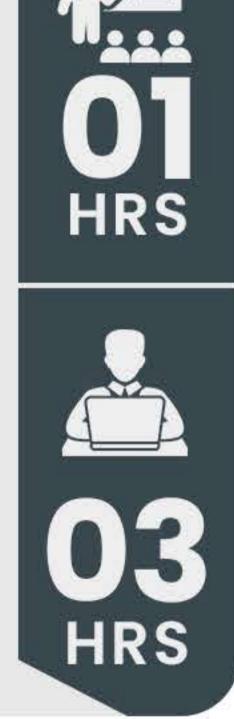
- a. What is directives
- b. What is ng if and else condition
- c. ng module
- d.Directive properties



## CHAPTER

## DEPENDENCY INJECTION IN ANGULAR JS

- a. What is dependency injection
- b. What is services
- c. Create data service



## CHAPTER

## ROUTING

- a. What is routing
- b. Navigation and its path
- c. Styling of router links











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