

Api Binding - Syllabus

Sl. no	Topic	Hrs
1	NodeJS API Creation	
2	ReactJS API Binding	
3	Angular API Binding	
4	How to create and consume the API's	
5	How to handle user session	
6	How to use JWT token	
7	How to do crud operation	
8	How to bind the data and make the front-end and back-end programming logic as per business need	
9	How to use encryption mechanism	
10	How to upload a file on server	
1	NodeJS API Creation	
	What is NodeJS?, NodeJS Env., Setup	
	Package Manager	
	CallBack Concepts	
	Web Module	2 Hrs
	What is RESTFUL API?	
	RESTFUL Architecture	
	HTTP Methods	
	What is RESTFUL WebServices?	
	Creating a RESTFUL for a Library	
	Listing the RESTFUL data (ex., any Users, Products, etc.)	

	Adding Records, Displaying, Updating, Deleting Records	4 Hrs
	ExpressJs Framework	
	Routing in ExpressJs	
	ExpressJs Rotuing with Middleware	4 Hrs
2	Creating a Secure API with NodeJs and ExpressJs	4 Hrs
3	ReactJs API Binding	
	What is ReactJs. ReactJs Architecture	
	Project Creation in ReactJs	
	Creating Components, Applying Custom Styles and Bootstrap	
	Creating Routing, Navigating between the Pages	
	Consuming / Fetching the Data (Data Binding) into the Components of ReactJs using Functional Life Cycle Hooks	
	Consuming / Fetching the Data (Data Binding) into the Components of ReactJs using Class Based Life Cycle Hooks	
	Consuming / Fetching the Data (Data Binding) into the Components of ReactJs using Redux and Saga	12 Hrs
4	Angular API Binding	
	What is Angular, Angular Architecture	
	Project Creation in Angular	
	Creating Components, Applying Custom Styles and Bootstrap	
	Creating Routing, Navigating between the Pages	
	HttpClient and Services	
	Consume REST API Data in Components	12 Hrs

5	CRUD Operations with MEAN and MERN Stacks	
	CRUD Operations using MEAN Stack (Angular, Node, Express, MongoDB)	
	CRUD Operations using MERN Stack (React, Node, Express, MongoDB)	10 Hrs
6	Deploying or Uploading Appl., into Live using MEAN and MERN Stacks	
	Deploying the MEAN Stack Application	
	Deploying the MERN Stack Application	4 Hrs
7	User Authentication (or) Session with Node, Express, Angular, ReactJs	
	NodeJs and ExpressJs User Session Management	
	ReactJs User Session Management	
	Angular User Session Management	15 Hrs
8	JWT Token with Express, NodeJs, ReactJs, Angular	
	What is JWT Token, How it is Useful?	
	Use JWT Tokens in ExpressJs	
	JWT Authentication in NodeJs	
	ReactJs JWT Token Authentication	
	Angular JWT Token Authentication	16 Hrs
9	Encryption Mechanism	
	NodeJs Data Encryption and Decryption using Crypto	4 Hrs

	Appr., Total No. of Sessions: (Concept wise Notes, Definitions, Examples with Explanations)	85 Hrs – Max 90 Hrs