

# Full Stack Development with Node JS

## Course Curriculum :-

### JavaScript : Installations

Installing Node.js

Running first Node.js script

Downloading IntelliJ

Daily practice exercise

### JavaScript : Introduction - Variable & Arrays

Data Types

Variables

Arrays

Multidimensional Arrays

Getting User Input

Daily practice exercise

### JavaScript : Practicing on Hackerrank

JS 1D Array

JS 2D Array

JS Subarray

Daily practice exercise

### JavaScript : Operators, Control Statements, Loops

Math Operators

Increment Operators

Logical Operators

Conditional Operators

If Statement

Switch Statement

For Loops

While Loop

Do while Loops

Daily practice exercise

## **JavaScript : Practicing on Hackerrank**

JS Input Output

If-Else

Loops I

Loops II

End-of-file

Daily practice exercise

## **JavaScript : Maths, Strings & Date**

Random Number Generator

String

String methods

toString, length, substring, indexOf, charAt, toUpperCase, toLowerCase, compareTo

Date and Epoch Time

Daily practice exercise

## **JavaScript : Practicing on Hackerrank**

toString

Strings Introduction

Substring

Substring Comparisons

String Reverse

Anagrams

Daily practice exercise

## **JavaScript : Data Structures and Practicing on Hackerrank**

Arrays

1D Array (Part 2)

List

Map

Daily practice exercise

## **JavaScript : Data Structures**

Stack

Set

Priority Queue

Sort

Daily practice exercise

### **JavaScript : Practicing on Hackerrank**

Stack

Sort

Priority Queue

Daily practice exercise

### **JavaScript : OOPs and Exception Handling**

Class and Objects

Public, Private and this

Inheritance

Daily practice exercise

### **JavaScript : OOPs and Exception Handling - 2**

Abstract Class

Interface - Duck typing

Method Overriding

Exception Handling (Try-catch)

Exception Handling

Singleton Pattern

Daily practice exercise

### **JavaScript : Practicing on Hackerrank**

Inheritance I

Inheritance II

Abstract Class

Interface

Method Overriding

Exception Handling (Try-catch)

Exception Handling

Singleton Pattern

Daily practice exercise

## **Node JS : Creating Project - Knowing about IDE**

How to debug

How to setup environment

Creating Project

Daily practice exercise

## **Node JS : File, Thread & Networking**

File Handling

Get, Post request

Daily practice exercise

## **Node JS : Mini Project- Word Top Frequency Analyser**

Reading files

Using data structures

Finding top keywords

Daily practice exercise

## **Node JS : Dependencies using Json**

How to add dependencies

What is Json and Gson ?

Converting objects to string

Parse string to object

Daily practice exercise

## **Node JS : Parsing Html**

Learning about jsdom

Running selecting queries

Daily practice exercise

## **Mini Project - Wikipedia Fetcher**

Search Word

Get information from wikipedia

Display to user

Daily practice exercise

## **Database : Setting up database**

Database : Connecting Database

Connect with database

Create, Update, Delete

Running queries

Daily practice exercise

## **Mini Project - Crawling**

Picking links from file

Making network requests

Dumping data

Daily practice exercise

## **REST APIS**

What is REST APIS ?

HTTP Methods- GET, POST

HTTP Headers

Daily practice exercise

## **Backend : Explaining Configurations**

Application Properties

Profiles in IDE

Knowing about static resources

Daily practice exercise

## **Backend : Building first REST API**

Creating Controller

Creating Entity/Model classes

Creating Views

Daily practice exercise

## **Backend : Running first REST API**

Setting up server

Making GET/POST request to server

Requesting for HTML

Requesting for JSON

Daily practice exercise

## **Backend : Building Twitter - Sign Up Page**

- Creating sign up page
- Learning Node JS concepts
- Adding Member details to Database
- Learning about interceptors
- Learning about cookies
- Daily practice exercise

## **Backend : Building Twitter - Login Page**

- Authenticating user
- Handling login failure
- Redirecting to welcome page
- Daily practice exercise

## **Backend : Building Twitter - Profile Page**

- Update details
- Uploading photo
- Daily practice exercise

## **Backend : Building Twitter - Create First Tweet**

- Setting up UI interaction
- Using more javascript
- Updating user profile
- Daily practice exercise

## **Backend : Building Twitter - Home Feed**

- Fetching users feed from database
- Adding LOAD MORE option
- Adding like option to tweet
- Handling unlike
- Daily practice exercise

## **Backend : Building Twitter - Adding Follower**

- Adding follow option on other's profile
- Adding follow option on HOME FEED
- Daily practice exercise

## **Backend : Building Twitter - Using CDN & Redis**

Making APIs faster ? How ?

What is CDN ?

What is Redis ?

Daily practice exercise

## **Interview Tips & Closure of Course**

How to explore more

More tips on projects

Final words from team

Daily practice exercise