



# Web Development

Content

&

Curriculum



# Frontend Development



## HTML & CSS

Basic of Web development & Internet  
Introduction to HTML & CSS  
Introduction to Bootstrap

## Basic DSA

Array  
Object(Hash Map)  
Bubble Sort

## Java Script

Basics of a Programming Language  
Functions  
Object Oriented Programming

## React

JSX  
Virtual DOM  
React Ecosystem  
Virtual DOM



**Job ready Here**

Move forward to become Full stack Developer

# Backend Development

## Express

Creating HTTP Server  
Routing  
Middleware  
Authentication

## Nodejs

Node.js vs Browser  
Package Manager

## MongoDB

NoSQL, Document based Database  
CRUD Operations  
Mongoose

## Advanced DSA

Data Structures and Algorithms  
Linked List  
All Sorting Algorithms



**Job ready Here**

# Start Learning Html & CSS

Unleash the web wizard within with HTML and CSS, the dynamic duo of digital design! HTML weaves the tapestry of structure, while CSS paints the canvas with style, unleashing jaw-dropping websites that dance with color and flair. Together, they create a symphony of code, transforming pixels into captivating online experiences!

**2 WEEKS**

## HTML

1. ADDING ELEMENTS TO THE WEB PAGE
2. STRUCTURE OF A WEB PAGE
3. HYPERLINKS
4. ATTACHING MEDIA
5. TABLES
6. FORMS

**2 WEEKS**

## CSS

1. STYLING THE WEB PAGE
2. BOX MODEL
3. TYPOGRAPHY
4. FLEXBOX
5. RESPONSIVE DESIGN
6. ANIMATIONS

Live Classes 3 Days In a Week In course



Course Project  
Portfolio Creation

Create Portfolio &  
Music App Display

# Learning Java Script

Javascript, the dynamic sorcerer of the web, breathes life into static pages with its enchanting spells of interactivity and animation. Unleash its power, and watch your website ignite with a blaze of creativity that captivates users like a mesmerizing technomancer!

## Introduction To Java Script

1-2 WEEKS

1. DATA TYPES
2. VARIABLES (PURPOSE OF USING VARIABLES)
3. OPERATORS
4. CONDITIONAL STATEMENTS
5. LOOPS
6. USEFUL BUILT-IN METHODS IN JAVASCRIPT

## Advance Concepts

7-8 WEEKS

1. OBJECT DOM MANIPULATION
2. OOPS
3. ES6 INTRODUCTION
4. JAVASCRIPT ASYNC AND PROMISES

2 Doubt Clearing Session In Course



Course Project  
Calculator

Tip Calculator &  
Assignment Management

# Learn Basics Of DSA

Harness the power of algorithms and data structures, the secret weapons of the coding elite! With DSA in your arsenal, conquer complex problems with lightning speed, unlocking a realm of efficiency and innovation that will make your code shine like a supernova!

## Data Structure & Algorithm

1 WEEKS

1. TIME AND SPACE COMPLEXITY
2. ARRAYS
3. STRINGS
4. BINARY SEARCH
5. BUBBLE SORT
6. RECURSION

2 Mentorship Session in a Week in Course



Course Project

Visualizer

# React

Enter the realm of React, where components unite to form a majestic symphony of user interfaces that mesmerize with their speed and elegance. Empower your web development journey with React's wizardry, and command the forces of UI magic like a true digital sorcerer!

## Introduction To React

4 WEEKS

1. INTRODUCTION TO REACT
2. REACT COMPONENT
3. CSS IN REACT COMPONENT
4. COMPONENT LIFECYCLE
5. CONTEXT API

## React Routing & Redux

4 WEEKS

1. AXIOS
2. REACT ROUTING
3. REACT HOOKS
4. INTRODUCTION TO REDUX
5. LOCAL AND SESSION STORAGE

2 Practice Session With Industry In Course



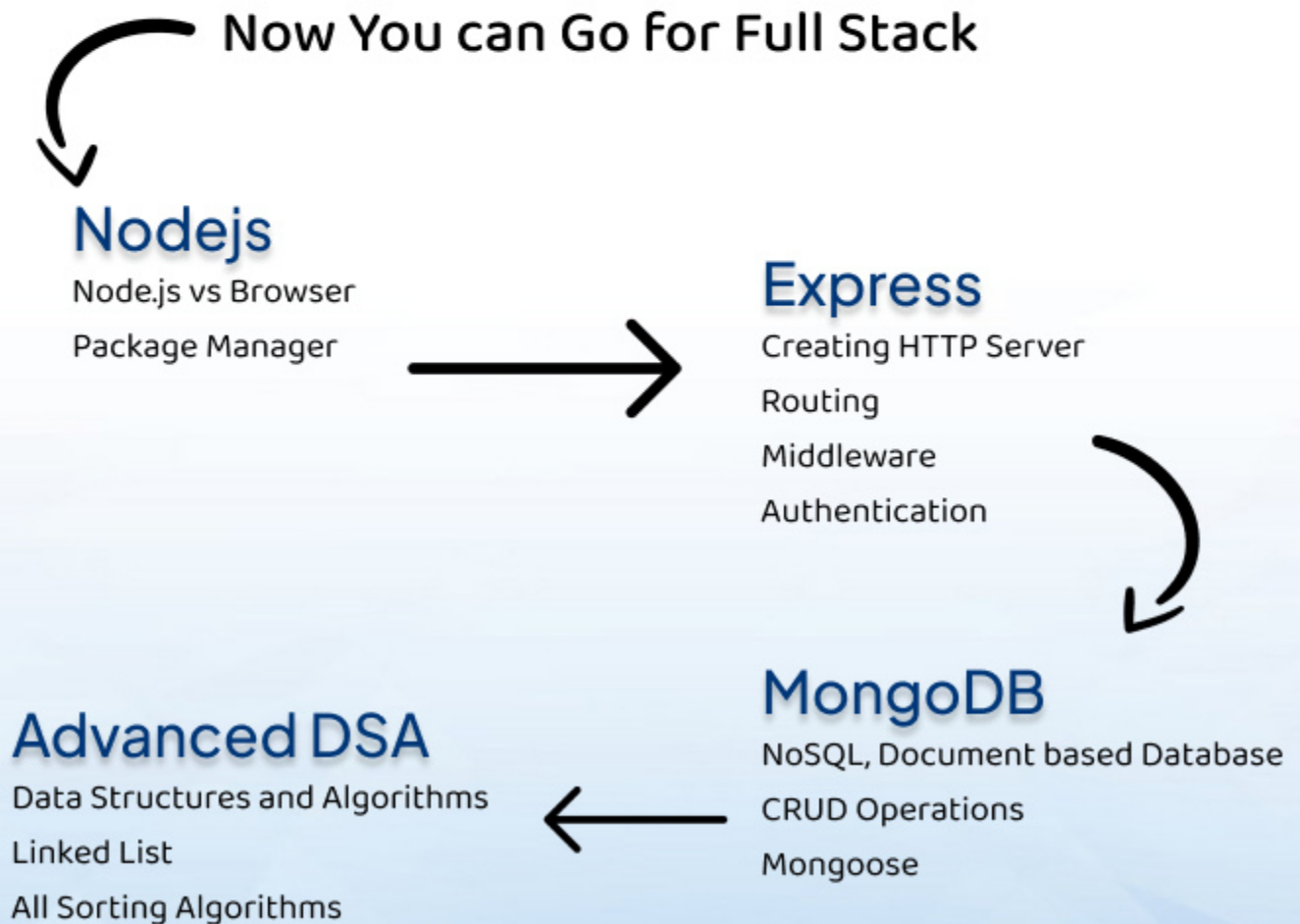
Course Project  
Interactive Dashboard

Thali Booking App Using  
React & Redux



You Have completed Front-End  
NOW YOU ARE JOB READY

Now You can Go for Full Stack



# Node JS

Node.js is an open-source and cross-platform JavaScript runtime environment. A Node.js app runs in a single process, without creating a new thread for every request.

1 WEEKS

## Introduction to Node JS

1. EVENT LOOP
2. ARCHITECTURE OF NODE.JS
3. NODEJS VS BROWSER
4. NPM PACKAGE MANAGER

2 WEEKS

## Node Js module system

1. FS MODULE
2. PATH MODULE
3. UNDERSTANDING PROCESS

2 Practice Session With Industry In Course



Course Project  
Assignments

CI Tool with File System.



# Express

Express, the chariot of web servers, races across the digital highway, delivering your web applications with lightning speed and precision. With Express as your guide, embark on a journey of seamless routing and dynamic handling, leaving your users breathless in the wake of your web prowess!

## Introduction to Express JS

2 WEEKS

1. CREATING HTTP SERVER
2. ROUTING
3. MIDDLEWARE
4. AUTHENTICATION USING JWT
5. CORS

2 Practice Session With Industry In Course



Course Project  
Capstone Projects

CRUD API with Express Js

# MongoDB

MongoDB, the titan of NoSQL databases, reigns supreme, unleashing lightning-fast queries and scalability like a mythical beast of data management. Embrace its power, and watch your applications soar to new heights, riding the winds of flexibility and performance!

2-3 WEEKS

## Introduction to MongoDB

1. SQL VS NOSQL
2. BSON VS JSON
3. COLLECTIONS AND METHODS ( CRUD )
4. MONGODB COMPASS
5. MONGODB ATLAS
6. MONGOOSE

2 Practice Session With Industry In Course



Course Project

CRUD Operations With Mongoose

# DSA Advanced

Step into the realm of DSA Advance, where algorithms evolve into supercharged warriors, conquering the most formidable coding challenges with unmatched finesse. Unleash the hidden potential of your code, harnessing the strength of advanced data structures, and witness your programs transcend the ordinary, blazing a trail of digital brilliance!

## Topics To Cover

3-4 WEEKS

1. LINKED LIST
2. STACK
3. QUEUE
4. HASH TABLE
5. TREE
6. GRAPH
7. HEAP
8. SORTING ALGORITHMS

2 Practice Session With Industry In Course



Course Project

Sorting Visualizer



*Thank  
you*

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**[www.digikull.com](http://www.digikull.com)**



**Or Call/ Whatsapp At**



**+91 8383047314**