

# Welcome to

# Revamp Academy!

## Why Choose Revamp Academy?

- ✨ Comprehensive Curriculum
- 🚀 Hands-On Learning
- 👨‍🏫 Experienced Instructors
- 💼 Career Opportunities
- ☀️ Supportive Community
- 🌐 24/7 Support
- 💰 Affordable Fee Structures
- 📅 Live Sessions with Comfortable Timings
- 🎧 Recordings of Live Sessions
- 🚀 Lifetime Mentorship
- 🌐 Internship Opportunities

Whether **you're a beginner or have prior experience**, our course will equip you with the knowledge and practical skills needed to excel in the world of STACK development.



# MERN-Stack Training (8 Weeks Training)

At Revamp Academy, we're thrilled to introduce our **highly anticipated MERN Stack training program**. This course is designed to cater to students like you who are eager to dive into the world of **web development and master the MERN Stack** – a powerful combination of technologies for building modern web applications.

## What Will You Learn?

- Our meticulously curated curriculum covers all the essential aspects of the MERN Stack:
- **HTML, CSS, and JavaScript:** We'll start with the basics and gradually advance to create responsive web designs.
- **React:** You'll delve deep into building dynamic and interactive user interfaces using React, the popular JavaScript library.
- **Express & Node.js:** You'll master the server-side development with Express and Node.js.
- **MongoDB:** Learn the fundamentals of MongoDB, a versatile NoSQL database.
- **Version Control:** We'll teach you how to use Git for version control and real-world deployment strategies.
- **Project Work:** Throughout the course, you'll work on hands-on projects that will solidify your skills.

# Detailed Syllabus

## **Phase 1 : Version Control System**

### **Basics of Git and Github**

- VCS & Git Repositories
- Staging Area & Commits
- Working with Branches
- Push & Pull Requests

## **Phase 2 : Basic Static Website (HTML & CSS)**

### **Complete HTML Basics**

- HTML Elements
- HTML Headings
- HTML Paragraphs
- HTML Button
- HTML Attributes
- HTML Images
- HTML Hyperlinks
- HTML Containers
- HTML Lists

### **Complete HTML Basics**

- CSS Rulesets , CSS Properties
- CSS Colors , CSS Units
- CSS Box Model
  - CSS Margins
  - CSS Paddings
  - CSS Borders

- Intermediate CSS
  - Block vs inline element
  - CSS Selectors
  - Id Selector
  - Type Selector
  - CSS Specificity
  - CSS Inheritance
  - CSS Cascading

💡 **How to Host Website in GitHub Pages**

💡 **Project : Basic 4 Page Website**

## **Phase 3 : Responsive Website (Tailwind CSS)**

### **Tailwind CSS**

#### **CSS Layout**

- CSS Flex box
- Sizing Elements , Over flow
- Box Sizing
  - Content Box
  - Border Box

#### **CSS Media Queries**

- What is Media Query & Media Types

##### **Media Features**

- Width, min-width, max-width
- Height, min-height, max-height

- Multiple Media Features in a single Media Query
  - Logical Operators (and)
  - Logical Operators (not)
  - Logical Operators (,)

## **CSS Framework : Tailwind**

- Tailwind Grid System
- Tailwind Utilities

### **Project : Portfolio Website**

## **Phase 4 : Dynamic Website (JavaScript Essentials)**

### JavaScript

#### **Introduction to JavaScript**

- Data Types
- Variables
- Basic Operators
- Conditionals
- Loops
- Functions
- Arrays
- Objects
- Control Flow
- Comments
- Math Functions

#### **DOM Manipulation**

- Introduction to the DOM and Defining the DOM

- Select and Manipulate
- Important Selector Methods
  - Extra :
    - Manipulating Style
    - Manipulating Text and Content
    - Manipulating Attributes
- Local Storage

## **Rest parameters and spread syntax**

- Destructuring Arrays
- Destructuring Objects

## **Asynchronous JavaScript**

- Async/Await
- Promises
- How to Make API Calls Using Fetch Method

## **Scope & Hoisting in JavaScript**

- Important Concept For Interviews

## **Array Methods**

- map
- filter
- Reduce
- String Manipulations
  - trim & split Methods
  - toUpperCase & toLowerCase Methods, includes Method

**Extra : OR** Formik with Yup for form in React

- **Forms**
  - The form element
  - The label element

- The input element
- The option element
- The option group element
- The button element
- The select element
- The textarea element
- Form validations and Input validations with Regex

## **Phase 5 : React (Getting Started with React)**

### **REACT JS**

#### **Basic of React**

- Why React
- What is Virtual DOM
- What is React reconciliation

#### **Bundlers & Packages: NPM, Parcel, Vite**

- what are Bunders
- what is npm Packages
- Config Vite Bunder

#### **What is JSX & Props in React**

- What is JSX
- What is JSX Expression
- How Convert HTML to JSX
- How Passing a prop to a component
- How to Destruct Props on Fly
- Conditional Rendering
- React Fragments

#### **Component in React and Working with Lists**

- Types of Component
- How to Work with Lists
- What is Component Composition
- 2 types of Import & Export: named & multiple

## **Hooks in React useState()**

- How and Why to Work with Hooks
- what is state
- What is useState and why it used
- Optional Chaining
- Config Driven UI, Data layer, UI layer

## **What is Micro Service, useEffect() with Axios**

- What is Micro Service
- How useEffect is used and Called on initial Render
- what is dependency array and Call Back Function
- Virtual DOM
- Reconciliation Algorithm & Diff Algorithm
- What is React Fiber
- React Fiber Architecture

## **React Router Dom V6 Related**

- React Router.
- React-router-dom
- useRouteError Hook
- How to Create Nested Children Routes
- Outlet Component.
- Link Component
- More about SPA's
- UseParams Hook
- useError Hook
- Dynamic Routing
- 2 types of Routing : Client Side Routing & Server-side Routing.



- How to Create Protected Routes

## **React Optimization**

- How to Create Custom Hooks
- Lazy Load
- Shimmer UI

## **Way to Style and create Responsive Component**

- Styled Component ,
- Ant Design and How to Step up Ant design
- Emotion

## **React Context API**

- What is Prop Drill
- What is HOC
- Advanced Context for Production
  - Using Custom Hooks
  - Using Separate File Structure for Context
  - Hooks with Local Storage
  - Hooks with React Router
  - Data fetching using Hooks

## **Authentication & Authorization**

### **Extra:**

- Class Based Component
- Component Life Cycle
- Formik with Yup for Forms

## **Project: E-commerce Website**

## Phase 6 : Back End (Express with MongoDB)

### Node and Express with Mongoddb

#### Node Basics

- Introduction to Node.js
- First Node Program
- The Global Object
- Modules and modularity
- Introduction to Node moduls
  - OS Module
  - Path Module
  - FS Module with Files
  - FS Module with Directories
- How to Create First Http Server
- **Node Package Manager(NPM)**
  - How to Install and use an NPM Package
  - All about .gitignore
  - Semantic versioning
  - Publish Your Own NPM Package

#### Getting Started with Express

- Express Installation
- what Express & How to use Express
- Nodemon
- Environment variables and PORT
- Route Parameters
- Handling Multiple Routes
- Postman
- HTTP GET method
- HTTP Post method
- Http Put Method
- Http Delete Method

## **Express Router , Controller , Service**

### **How MVC architecture Works**

- How to Create Route
- How to Export Router
- What is Controller
- How to Connect Router to Controller
- Now how to Connect Controller and Service
- Why Service and How Business Logic are Written
- Finally Connect MongoDB [ Mongoose ] ORM and Service

### **Express Curd **Mongodb** with Postman**

- what is MongoDB and Setup MongoDB Atlas
  - How to Create a Cluster and Take the URL
- What is Different B/w MongoDB Driver and Mongoose
- How the Data are Stored in Form of JSON [ BSON ] Format
- How to Work with Schemas & Models , Instances , Queries
- How to Connect to Mongodb using Mongoose without MongoDB Driver
- How to Create a Schema
- How to Save Data Though Mongoose
- How to Fetch All Data and Single Data [ **GET** ]
- How to Update a Data [ **UPDATE** ]
- How to Delete a Data [ **DELETE** ]
- How to Add a Data [ **POST** ]

### **Mongoose with Express AND .env Setup**

- How to Using .env and Why .env in Node
- How ADD Mongodb Cluster Endpoint in .env
- How to use .env in node [ like to import ]

## How to Integrate Back End With React Front End

- How to Create Base API ENDPOINTS
- How to Connect Backend and Frontend with the API
- How Test the API ENDPOINT IN POSTMAN

### Extra :

- ORM : Prisma
- Authentication & Authorization Using JWT and Bcrypt
- Express **with Typescript**
- What is Typescript and What are Way to declare a Types in Typescript in Express
- How to Optimize your API Endpoints for Production
- How to Use Redis For Caching and Kafka in Production Environment
- Test Backend API with Jest
- Swagger UI For Docs your API

### **Project: E-commerce Backend CRUD**

## Deployment

- **Basic Deployment**
  - **Front End** : Vercel
  - **Back End** : Railway or Render
  - **Database** : Neon or Super base or MongoDB
- **Real Production Deployment**
  - Docker Based Deployment
  - How to Deploy in AWS
  - AWS Services : S3 for Image Optimization and Storage
  - CI/CD PIPELINE WITH AWS

## **Capstone Project**

- 💡 Project : Tourism Website [ 4 Pages Site ]
  - 💡 Project : Responsive Portfolio Website
  - 💡 Project : Wikipedia Search Application or **Assignment**
  - 💡 Project : E-commerce Website
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## **Course Fee and Schedule**

- Fee: **Rs. ~~7999~~ - 3500/-** for the entire 2 Months program.
- Duration: **90 minutes per session.**
- Classes: **4 - 5 Classes/Week**
- Timings: i.e 6:30 PM to 8:00 PM.
- Online Training - GMEET

## Perks for this Training



4 CERTIFICATES



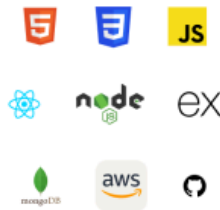
FREE AWS SESSION



PLACEMENT GUIDANCE



RESUME TEMPLATE



9+ TECH SKILLS



LIFETIME RECORDINGS



30+ ASSIGNMENTS



6+ PROJECTS



LIFETIME ACCESS

# Revamp Review's








**Google Review's**  
4.9 ★★★★★


**Rudhresh**  
2 Review's  
★★★★★  

After joining the class, I have learned a lot of things. Additionally, I have started the App Development Projects confidently. Thanks to Revamp Academy and Suganth bro!!


**AARTHI M**  
1 Review  
★★★★★  

I had a positive experience at Revamp Academy. The courses were informative, the instructors were helpful, and I learned a lot during my time there. The affordability was also a bonus. I'm looking forward to taking more courses at Revamp Academy. I would recommend it to anyone interested








**Google Review's**  
4.9 ★★★★★


**Ujwala**  
10 Review's  
★★★★★  

Hands down, one of the best affordable academy out there. Their courses are transparent, comprehensive, and up-to-date. I learnt full stack development there in less than 3 months with no previous experience in coding. My instructor, Mr. Venkatesan, is highly knowledgeable and supportive, guiding us through complex concepts with clarity and patience. The academy also provided class recordings with notes, regular feedback sessions and practice exercises through assignments to enhance the learning experience. Overall, I highly recommend Revamp Academy for anyone looking to dive into the world of Full Stack Development.

**Scan Me ! and Register for your Career Growth !**



## **Social Media** 🎉

For updates and additional information, follow us on Instagram:

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If you have any inquiries or need assistance, please feel free to reach out to our dedicated trainer, **Suganth Pv**, at **8072948266**.

We eagerly await your arrival at Revamp Academy, where we're committed to nurturing your coding talents and empowering you to create extraordinary user experiences! 🌐

**Share with your Friends and Make them Success too !**