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# COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

Email : query@countryedu.com, grievances@countryedu.com

## MEAN Full Stack Development Immersion Internship

Designed by: CountryEdu Private Limited

### By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

#### Program Objective :

To transform students into job-ready MEAN Full Stack Developers capable of:

- Building complete web applications using MongoDB, Express.js, Angular, and Node.js
- Understanding frontend, backend, database, and API integration workflows
- Developing scalable enterprise-level applications using Angular and Node.js
- Gaining hands-on experience in full stack application development and deployment
- Learning industry-standard coding practices, debugging, and version control workflows
- Preparing students for careers in MEAN Stack Development and Software Engineering

#### Program Structure :

- Duration: 12 Weeks (3 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: HTML5, CSS3, TypeScript, Angular, Node.js, Express.js, MongoDB, GitHub, VS Code, Postman
- Learning Model: Project-Based Learning Model

Final Outcome: Ability to build and deploy complete MEAN stack web applications + Internship Certificate

## MONTH 1 – FRONTEND DEVELOPMENT WITH ANGULAR

### Week 1: Introduction to Web Development

- Introduction to MEAN Stack Development
- Understanding Web Applications & Architecture
- HTML Basics & Webpage Structure
- Forms, Tables & Media Elements
- Introduction to CSS
- Setting Up Development Environment

~ Outcome: Strong foundation in web development and webpage structure creation

### Week 2: CSS & Responsive Web Design

- CSS Styling Fundamentals
- Box Model & Positioning
- Flexbox & CSS Grid
- Bootstrap Framework
- Responsive Web Design
- UI/UX Design Basics

~ Outcome: Ability to design responsive and visually appealing web pages

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## Week 3: JavaScript & TypeScript Fundamentals

- Introduction to JavaScript
- Variables & Data Types
- Functions & Loops
- DOM Manipulation
- Introduction to TypeScript
- Object-Oriented Concepts in TypeScript

~ Outcome: Ability to write dynamic and structured frontend code using JavaScript & TypeScript

## Week 4: Angular Fundamentals

- Introduction to Angular
- Angular CLI & Project Structure
- Components & Modules
- Data Binding
- Directives & Pipes
- Routing Basics in Angular

~ Outcome: Ability to build modern frontend applications using Angular

## MONTH 2 – BACKEND DEVELOPMENT & DATABASE MANAGEMENT

### Week 5: Backend Development with Node.js & Express.js

- Introduction to Node.js
- Express.js Fundamentals
- Creating Web Servers
- Routing & Middleware
- REST API Basics
- API Testing using Postman
- ~ Outcome: Ability to build backend servers and RESTful APIs

### Week 6: MongoDB & Database Integration

- Introduction to MongoDB
- CRUD Operations
- Mongoose ODM
- Database Schema Design
- Connecting Backend with MongoDB
- Data Modeling Basics

~ Outcome: Ability to manage and integrate MongoDB databases with backend applications

### Week 7: MEAN Stack Integration

- Connecting Angular with Backend APIs
- Authentication & Authorization
- JWT Authentication
- Angular Services & HTTP Client
- Error Handling Techniques
- Full MEAN Workflow

~ Outcome: Ability to connect frontend, backend, and database systems professionally

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## Week 8: GitHub & Deployment

- Git & GitHub Workflow
- Version Control Basics
- Debugging & Testing
- Environment Variables
- Deployment using Netlify & Render
- MEAN Stack Optimization Techniques
- ~ Outcome: Ability to professionally manage and deploy MEAN stack applications

## MONTH 3 – LIVE PROJECT & CAREER READINESS

## Week 9–10: MEAN Stack Project Development

Students work on real-world MEAN Stack Projects such as:

- E-Commerce Web Application
- Employee Management System
- Blogging Platform
- Inventory Management System
- Task Management Application
- Admin Dashboard System

Project Includes:

- Requirement Analysis
- UI & Database Planning
- Frontend & Backend Development
- API Integration & Testing
- Final Project Presentation

~ Outcome: Ability to build complete real-world MEAN stack applications

## Week 11: Deployment & Professional Workflow

- Full Stack Application Deployment
- Hosting & Domain Basics
- Environment Configuration
- Project Documentation
- Portfolio Development
- GitHub Project Management

~ Outcome: Ability to professionally deploy and present MEAN stack projects online

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## Week 12: Interview & Career Preparation

- MEAN Stack Technical Interview Preparation
- Resume & LinkedIn Optimization
- Mock Interviews
- Coding Challenges
- Freelancing & Internship Guidance
- Career Pathways (MEAN Stack Developer, Angular Developer, Full Stack Developer, Node.js Developer)

~ Outcome: Placement-ready MEAN Stack Developer with practical project experience

## Key Skills Developed

- HTML5, CSS3 & TypeScript
- Angular Development
- Node.js & Express.js
- MongoDB Database Management
- REST API Development
- Authentication & Security
- Git & GitHub Workflow
- MEAN Stack Deployment

## Target Roles After Completion

- MEAN Stack Developer
- Angular Developer
- Full Stack Developer
- Node.js Developer
- Web Application Developer
- Freelance MEAN Developer

## Why This Program is Industry-Ready

- ✓ 100% Project-Based Learning
- ✓ Real-world MEAN Stack Application Development
- ✓ Frontend + Backend + Database Exposure
- ✓ Industry-standard Development Practices
- ✓ Portfolio & Career Preparation Included

**From Beginner to Professional — Become a MEAN Full Stack Development Expert in 3 Months.**