

MERN Full Stack

Syllabus

By  Learn Coding



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Module 1

I Introduction to Web Development

- What is Web Development ?
- Static vs Dynamic Website ?
- Who is Front-end Developer ?
- Who is Back-end Developer ?
- Who is Full-StackDeveloper ?

I MERN Stack

- MEAN Stack is a User friendly JavaScript framework which is used to develop web applications.
- Mean stands for MongoDB, Express JS Angular JS and Node.js Mean is an end-to-end JavaScript used for cloud-ready applications.

MODULE 1

I Introduction to Web Development

Prerequisites

- Programming Fundamentals
- HTML/ HTML5, CSS/CSS3
- JavaScript
- AJAX (Asynchronous JavaScript and XML)
- Reasonably good Database skills.

Module 2

I HTML

- Introduction to HTML
- Opening and Closing Tags
- HTML page structure
- How to create HTML file?
- Basic HTML Tags
- Image tags and Attributes
- Anchor tag, Email tag, tel tag
- HTML lists
- Ordered and Unordered lists
- Creating website homepage using basic tags

Module 2

I HTML

- ✓ Table tags in HTML
- ✓ Table Attributes in HTML
- ✓ Designing a calendar using HTML table
- ✓ HTML Div tag
- ✓ HTML Form elements
- ✓ HTML Input types
- ✓ HTML Input Attributes

I Video Lecture On YouTube



Module 3

I CSS

- ✓ Introduction to CSS
- ✓ Types of CSS Types of CSS (external, internal, inline)
- ✓ CSS selector (CSS selector (class, Id, tagName))
- ✓ Using internal CSS
- ✓ Basic CSS properties
- ✓ Border properties
- ✓ Creating professional webpage using HTML & CSS
- ✓ CSS Spacing properties (Margin & Padding)
- ✓ Margin properties
- ✓ Padding properties
- ✓ CSS measurement units
- ✓ CSS box model browser
- ✓ Background image property
- ✓ External CSS
- ✓ Border - radius property
- ✓ How to comment HTML or CSS
- ✓ Full - width vs fixed-width web design

Module 3

I CSS

- ✓ Setting width in percentage
- ✓ CSS clear property
- ✓ Creating full width Section
- ✓ CSS hover
- ✓ CSS transition property
- ✓ CSS position (fixed, relative, sticky) properties
- ✓ Absolute Positioning
- ✓ CSS display property
- ✓ CSS overflow properties
- ✓ CSS z index properties
- ✓ CSS opacity
- ✓ CSS flexbox
- ✓ CSS Grid

Module 3

I CSS

- Pseudo classes and elements
- Display Properties
- Connect of one page website
- CSS #id selector
- CSS cursor properties.
- CSS scroll properties

I Video Lecture On YouTube



PROJECTS

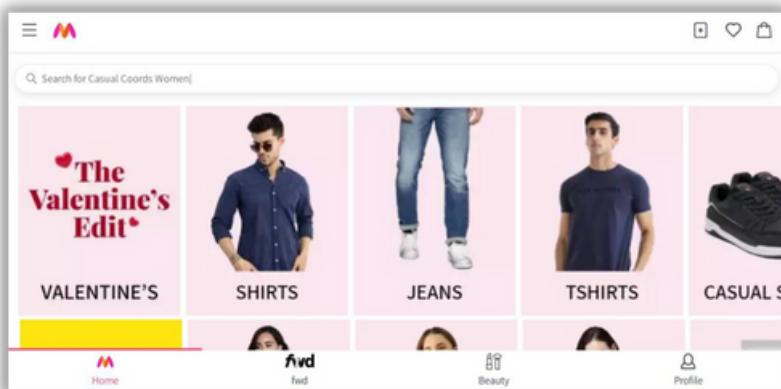
- Create shaadi.com clone using HTML Tags and CSS properties



- Clone the homepage of Myntra, emphasizing CSS flexbox property for layout design



- Clone the homepage of Myntra, emphasizing CSS flexbox property for layout design



Module 4

I Javascript

- ✓ Introduction to JavaScript
- ✓ Uses of JavaScript
- ✓ Ways to embed JS
- ✓ Javascript variables
- ✓ Scope and lifetime
- ✓ Javascript and Data types
- ✓ Javascript conditional statements
- ✓ JavaScript loops
- ✓ JavaScript arrays
- ✓ Functions in JavaScript
- ✓ Object in JavaScript
- ✓ JavaScript DOM
- ✓ Events in JavaScript
- ✓ Windows object functions
- ✓ Javascript Promises
- ✓ JavaScript operators
- ✓ Different types of patterns using nested loops
- ✓ Javascript array methods
- ✓ 'for of' loop and 'for in' loop

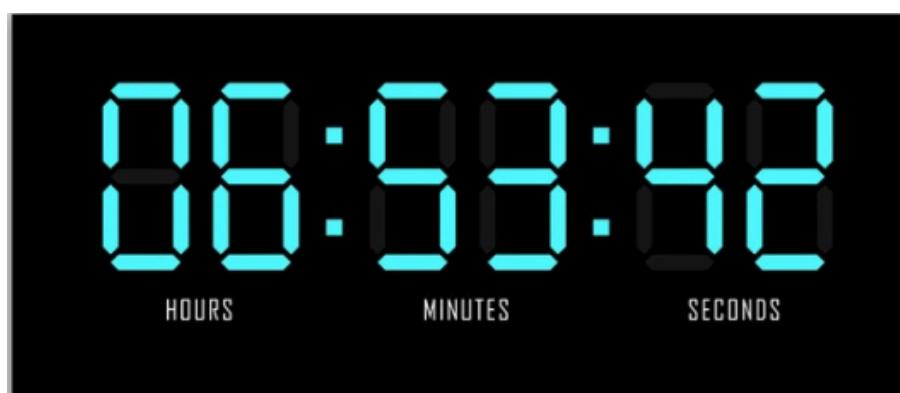
Module 4

I Javascript

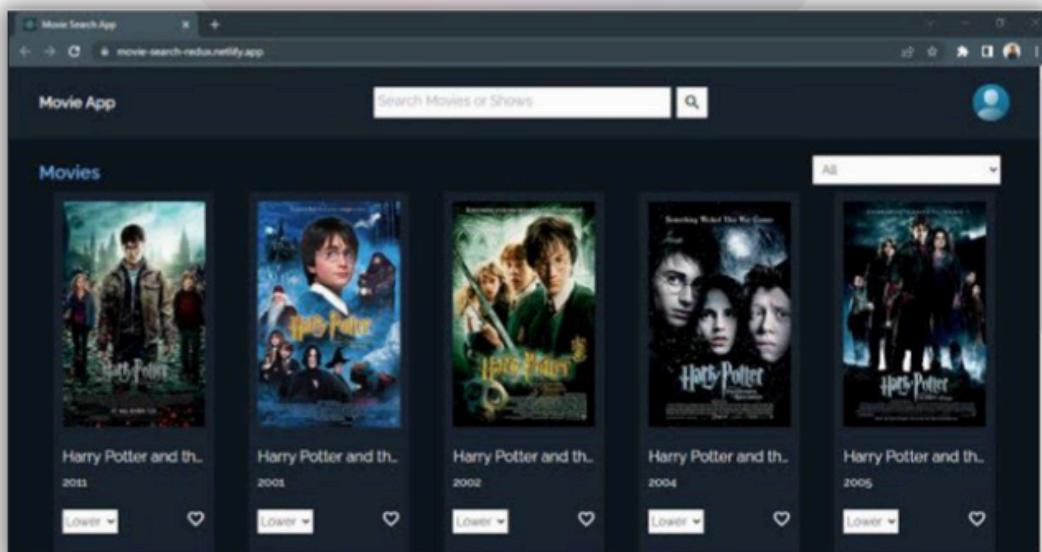
- ✓ Most useful functions in JS
- ✓ Date object in JavaScript
- ✓ Local storage in JS
- ✓ JavaScript exception handling
- ✓ Weather app using promise with free API
- ✓ Mini e-commerce App using promise with free API
- ✓ Data swipe using JavaScript DOM
- ✓ Math operations
- ✓ Show/Hide password using JS DOM
- ✓ Changing image using this function
- ✓ Product Cart system to increase /decrease quantity
- ✓ Building random code generator
- ✓ Creating JavaScript calculator
- ✓ Creating responsive menu
- ✓ Creating to-do list
- ✓ Creating password generator

PROJECTS

- Creating digital count down timer that counts down to important date or event



- Build movie search app using API to bring a vast collection of movie data to users

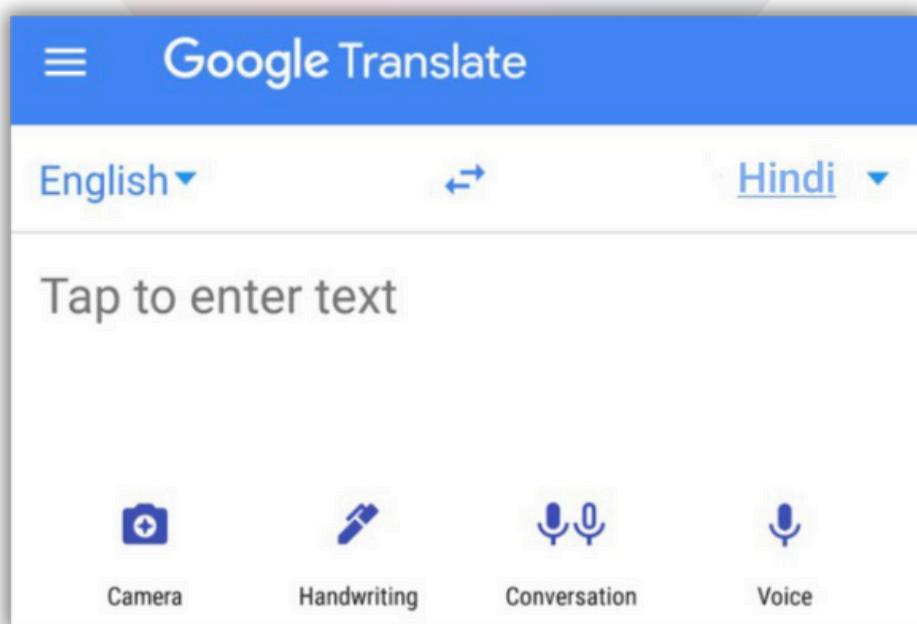


PROJECTS

- Build a weather app using API that brings forecast details to users' fingertips



- Design a tool like Google Translate to translate text between different languages



PROJECTS

I Javascript Projects Playlist

Project 1

Back-Ground Color Changer (Project)

Click on the below circle to change the background color.

with HTML, CSS and JAVASCRIPT

HTML CSS JS

Play all

JavaScript Background Color : Change | Project 1 | Learn...
Learn Coding
12K views • 1 year ago

How to Host Website on GitHub | Learn Coding
Learn Coding
6.8K views • 1 year ago

How to Create a Custom Ripple Effect Button Using HT...
Learn Coding
4.4K views • 3 months ago

Module 5

I Tailwind CSS

- ✓ Introduction to Tailwind CSS
- ✓ Setting up Tailwind CSS environment
- ✓ Tailwind CSS Brakepoint and customization
- ✓ Tailwind CSS Grid layout
- ✓ Tailwind CSS Flexbox
- ✓ Alignment in Tailwind CSS
- ✓ Tailwind CSS Spacing, margin, and padding
- ✓ Sizing in Tailwind CSS
- ✓ Typography in Tailwind CSS
- ✓ Backgrounds in Tailwind CSS
- ✓ Tailwind CSS Shadow and opacity effects
- ✓ Tailwind CSS Transforms
- ✓ Tailwind CSS Animation
- ✓ Creating website section using Tailwind CSS

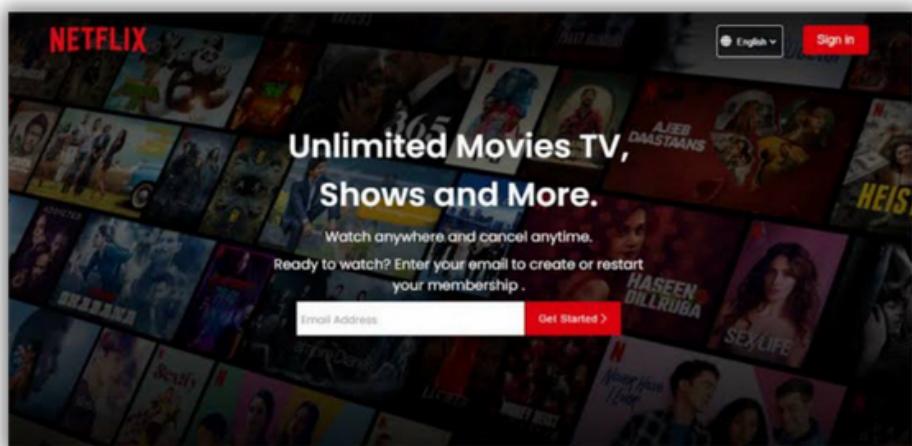
Module 5

I Video Lecture On YouTube



I Project

- Build a responsive clone of Netflix's homepage using Tailwind CSS, replicating its iconic look and feel



Module 6

I React JS

- Important JavaScript concepts for ReactJS
- What is ReactJS?
- Adding JS to a page and how React JS projects differ
- Import and Export
- Revising variables and values
- Revising functions and parameters
- Arrow functions
- JavaScript Destructuring
- Introduction to React JS
- Uses and application of ReactJS
- Key features of ReactJS
- Benefits of using ReactJS
- Installing create-react-app
- Creating ReactJS projects
- Flow and cycle of ReactJS
- ReactJS components
- List rendering in ReactJS
- Bidirectional data Transfer in ReactJS
- Creating to-do list app

Module 6

I React JS

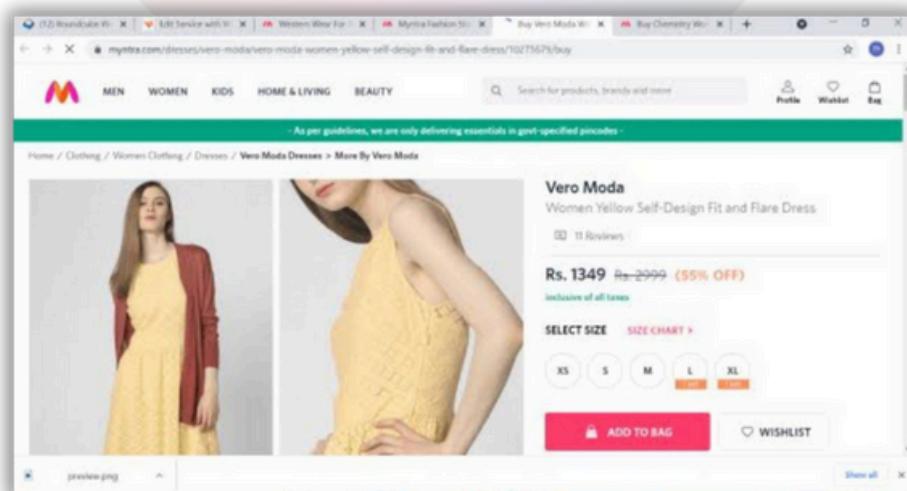
- ✓ Form handling in ReactJS
- ✓ React Component Life cycle
- ✓ Fetch external API in ReactJS
- ✓ Controlled components in ReactJS
- ✓ React Route DOM
- ✓ Introduction to Firebase
- ✓ Installing Firebase
- ✓ Adding & fetching data to Firebase Real time Database
- ✓ Creating User Management feature using Firebase
- ✓ Firebase Social login
- ✓ Context API
- ✓ Creating e-commerce Project
- ✓ Redux Toolkit
- ✓ Introduction to NextJS
- ✓ NextJS folder structure
- ✓ Discussing LMS website development projects

PROJECTS

- Create a clone of Zomato homepage using ReactJS



- Creating Myntra's product listing page using ReactJS and product API for sourcing items

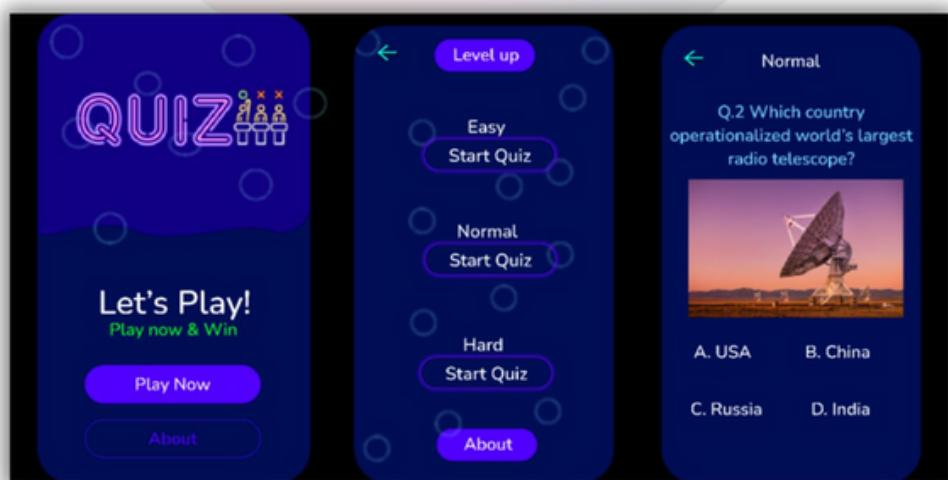


PROJECTS

- Create homepage clone of the grocery shopping website BigBasket

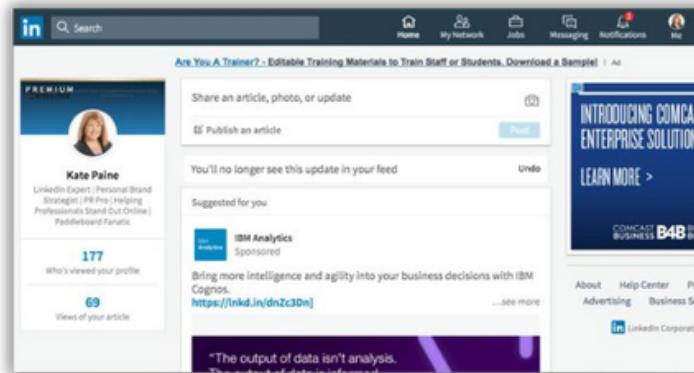


- Build a web based Quiz App where users can take quizzes and see results

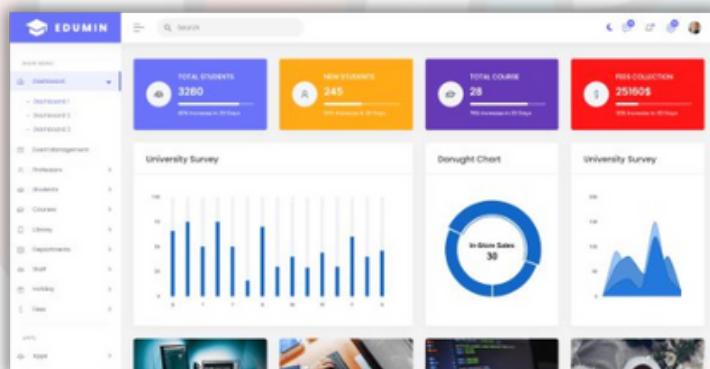


PROJECTS

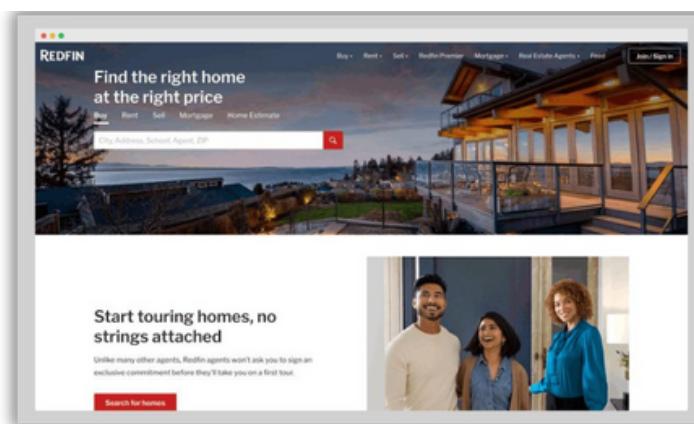
- Build LinkedIn homepage clone using React and Firebase, enhance with infinite scrolling



- Use React to Design LMS powered website with Admin Panel



- Use React to Design real estate platform with complete Admin Panel



Module 7

I NodeJS and ExpressJS

- ✓ Introduction to Node.Js
- ✓ Installing Node package manager
- ✓ Javascript fundamentals in Node. Js
- ✓ Creating Node Server
- ✓ Package.json file
- ✓ Nodemon Package
- ✓ Simple and basic API
- ✓ Getting input from command line
- ✓ How Node js works?
- ✓ Introduction to ExpressJS
- ✓ Routing Params: Request and Response
- ✓ Express JS Middleware
- ✓ Route-level Middleware
- ✓ Creating course module in Admin panel using ReactJS and NodeJS
- ✓ NodeJS and JWT token authentication
- ✓ Connect Register API with ReactJS
- ✓ Creating login/logout functionality in Admin panel
- ✓ Using Relation objects in Admin panel

Module 7

I NodeJS and ExpressJS

- ✓ Payment gateway interaction in ReactJS using NodeJS API
- ✓ Creating Transaction listing module in Admin Panel
- ✓ Display file list from folder
- ✓ Asynchronous programming
- ✓ Handling Asynchronous Data
- ✓ Rendering HTML and JSON
- ✓ Creating HTML Page
- ✓ Removing extension from URL and 404 page
- ✓ EJS template engine
- ✓ Dynamic Page with Express JS
- ✓ Creating video Module in Admin Panel using ReactJS and NodeJS
- ✓ Creating password forgot / reset functionality

Module 8

I MongoDB

- ✓ Introduction to MongoDB
- ✓ Installing MongoDB
- ✓ Basics of MongoDB
- ✓ CRUD operations in MongoDB
- ✓ Connecting MongoDB with NodeJS
- ✓ Update and delete data in MongoDB
- ✓ GET API in MongoDB
- ✓ POST API for inserting data in MongoDB
- ✓ PUT API to update data in MongoDB
- ✓ Delete API to delete data in MongoDB
- ✓ Mongoose with NodeJS
- ✓ CRUD with Mongoose
- ✓ Select Query Methods
- ✓ Event and event Emitter
- ✓ REPL
- ✓ File Upload Using multer
- ✓ Node mailer for Sending Emails
- ✓ GET API with Mongoose
- ✓ PUT API for Mongoose
- ✓ DELETE API with Mongoose

Module 9

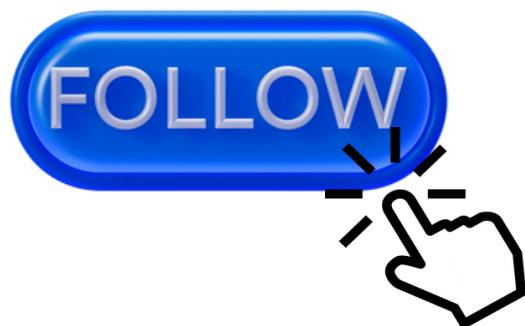
I AWS Server Setup

- ✓ Introduction to AWS
- ✓ Creating EC2 instance
- ✓ Security groups in AWS
- ✓ How to deploy Project in AWS?





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