**Full Stack**

**Web Development Program**

Become an Expert Web Developer Capstone Project

Guaranteed Job Program

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## Real-Time Projects &

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## Detailed Syllabus

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# PROGRAM DETAILS

### COURSE PREREQUISITE

There are no such hard prerequisite to learn web development as we cover everything from basic to advance level

### WHO IS THIS PROGRAM FOR?

Anyone having a career gap and willing to restart their career in web development.

Students in their final year or fresh graduates with or without programming backgrounds willing to make their career in web development

### INDUSTRIAL EXPERTS

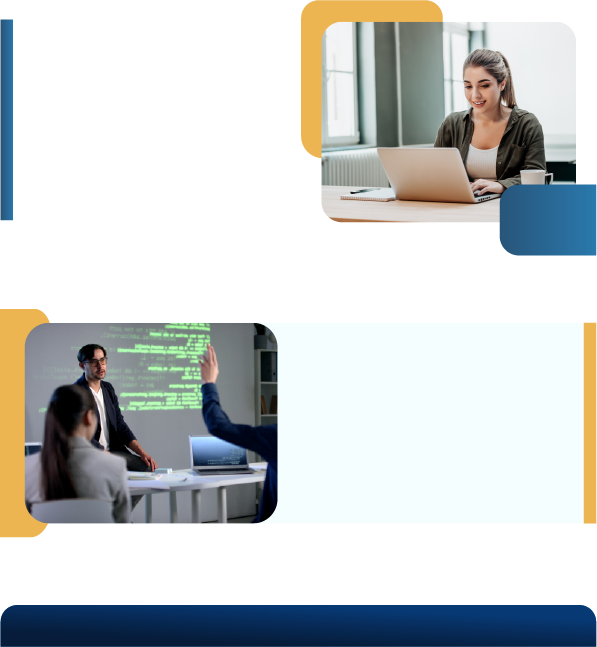
Our trainers are working professionals having more than 5+ years of experience.

**Course Duration**

**12 Months Monday to Friday 4 Hours/Day**



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### PRACTICAL PROJECT EXPERIENCE

Learn with real-time industrial projects & case studies Practice with 10+ real-time projects & use cases, 2 capstone projects, and get ready for product-based company interviews

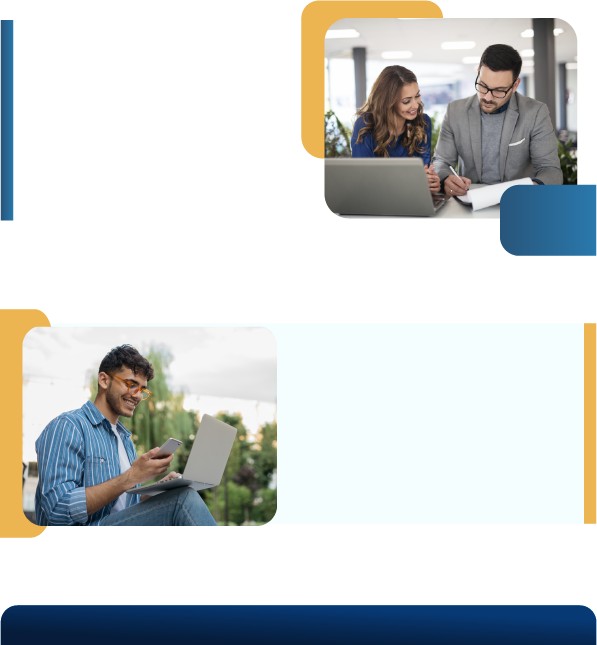
### SUPPORT FOR

**NON-PROGRAMMERS**

We provide special assistance and support for non-technical professionals

All tools & modules are covered from scratch

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### 1-ON-1 DEDICATION

Live interactive session with expert for every individual Each session is guided by industrial expert

Project based learning

### 3 YEARS SUBSCRIPTION

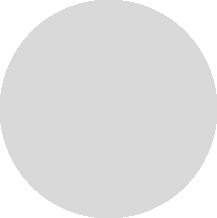
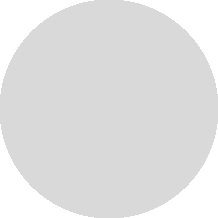
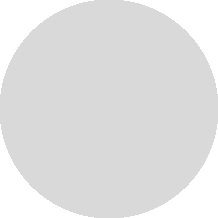
Limitless access for all the learning materials, live batches, and project sessions

Professionals get to switch between weekdays and weekends Make your learning calendar as per your convenience.

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**GUARANTEED JOB CALLS**

Journey from a non-programmer to an expert web developer in leading MNCs with our Guaranteed Interview Calls Program



Learn in-depth about Front-end & Back-end to crack interviews in Product based MNC's

Gain practical experience by working on 10+

real-world projects guided by MAANG experts

Sharpen your skills with 2 capstone

projects in 100% Live Interactive

Session

Priority access to startup job sites and requirements for individual projects.

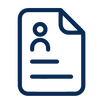
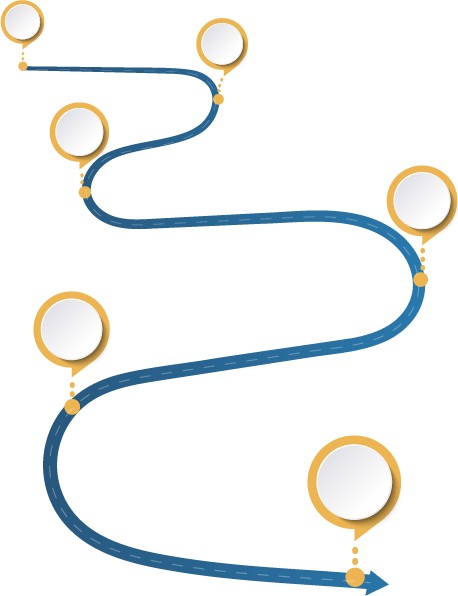
Get certified on

completion of industry-level projects.

**LEARNING PHASE**

Learn updated tools and modules from

basic to advance guided by industry expert



**TECHNICAL EXPERTISE**

Acquire a profound knowledge of

front-end and back-end programming

**REAL-TIME PROJECTS**

Training with real-world projects under the direction of MAANG specialists

**CERTIFICATION**

Earn Dual Certification get globally recognized

**PROFILE GROOMING**

Get Interview Ready with experts. Attain Resume Build-Up, 1:1 Mock Interview

**100% INTERVIEW**

Guaranteed Interviews from FinTech Startups and top MNCs

# PROGRAM OUTLINE

**Cohort + Preparatory Session - 20 Hrs**

**Web Development Tools**

Frontend - **40 Hrs** Backend - **40 Hrs** Database - **40 Hrs** EssentialTools - **40 Hrs**

Deployment on cloud - **20 Hrs**

**20 Hrs**

**180 Hrs**



**Real-Time Use Cases & Projects**

Portfolio Website Website Clone Link Tree

Real Time Chat Application and more

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**20 hours**

**Term 1**

Getting Started

**1. Cohort Orientation (4 Hours)** A quick guide to Full Stack Web Development

What, Why - Full Stack Development

What is meant by the terms "Frontend," "Backend,"

"Database," "Testing," "Version Control," "Project Management," and "Cloud Techniques"

Significance of projects

Job Opportunities in IT industry How to make it big in the IT Industry and crack MAANG Interviews

Interview process of top product based MNCs and Unicorns.

Scopes/Jobs of a Full Stack Developer

Details about this Full Stack course All about - MEAN stack and MERN stack

**2. Preparatory Session (14 Hours)**

Web fundamentals Git and github Basics

Basic SQL queries to handle data Programming Fundamentals Mathematics for programming

**3. Understanding elite domains (2 Hours)**

Full Stack Development Product Engineering / Management

Data Science and AI Web 3.0 Developer DevOps and Cloud

**1. Front End Development (40 hours)**

Enhance Bootstrap's look and feel using the newest HTML5 and CSS3 features.

Getting started with JavaScript JavaScript - Basic to Advance Understanding basics of jQuery Study the most frequent tags used in react js, angular, and nodejs

Develop layouts that are appealing, accessible, and responsive.

Learn how to use React JS to create single-page apps.

Understand basics of UI/UX (Figma)

Implement user authentication Overview of Backbone & Express JS

Learn DOM Manipulation

**2. Back End Development (40 hours)** Learn Express Framework, and make scalable web applications

SQL and NoSql Concept Understand the logic behind the MongoDB data storage Introduction to CSS for Backend OOPS to design the program using classes and objects.

Learn Design Patterns & Object Modelling

Learn JSON & AJAX to connect to APIs and endpoints

Web Programming with Javascript Use Node JS to build better user

interfaces

Learn handling HTTP requests using ExpressJS

Learn basic principles of REST APIs All about Spring Boot, Django



**3. Creating web applications from scratch**

Build static **HTML** and **CSS** websites for your portfolio and landing pages.

**Build a To-Do List Application** Improve your front-end techniques with user login and

authentication, understand different types of operations in database.



**3. Creating web applications from scratch**

Build a fully functional **blog**

**application** from the ground up using Node, Express, and MongoDB

The server-side is crucial for archiving blog articles as they are built and for rendering text on the client-side



**Real - Time Use Case**

On-Demand **Home Service Application**

Visitors may use this to search for services based on location, budget, and local vendors.

**4. Database (40 hours)**

Use **MySQL** to create and manipulate your own databases Learn **MongoDB** - Operators,

Collections, Indexes, Cloud

Built-in interface to manage the database object

**4. Database (40 hours)**

Utilize SQL to produce insights and reports from real-world

data

Handling data warehouses to web services with several

concurrent users using PostgreSQL

**5. Essential Tools (40 Hours)** Using Git, GitHub for Version Control

Selenium - For quick, systematic web-application testing

Sending Collections of API Requests using PostMan

Discover the fundamentals of a Trello Board, including the lists, cards, and menu

Using the JIRA

**6. Deploying Web Applications on Cloud (20 Hours)**

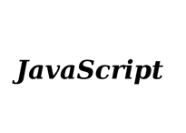
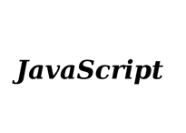
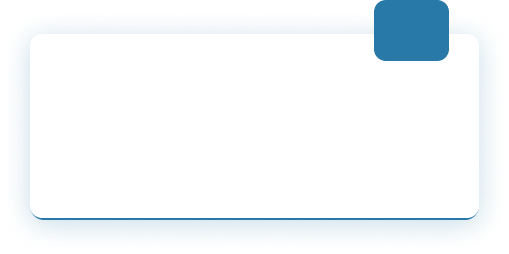
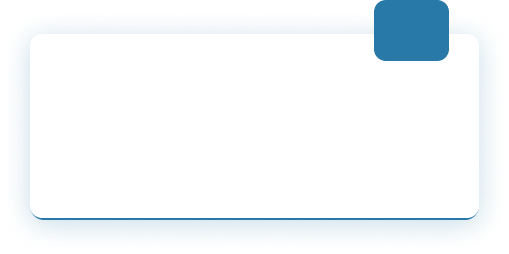
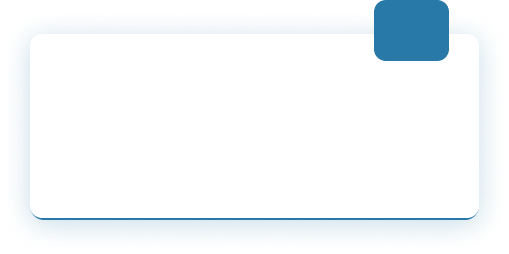
Understanding **AWS** Smart Architecture

Writing **Node.JS** Web Server - ready to deploy on App Engine

Use **Firebase** authentication to implement federated identity management

**Google Cloud Platform** - learn

infrastructure deployment service



**Portfolio Website**

Interactive Personal Website

List professional Details like experience and education Showcase your Projects and achievements

SEO Friendly to rank on google Deployed on Github Pages

**Website clone**

Clone websites like Facebook, amazon, Flipkart, zomato, etc Pixel-perfect cloning of the website

Multiple pages

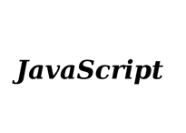
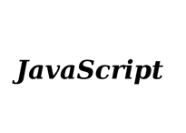
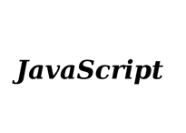
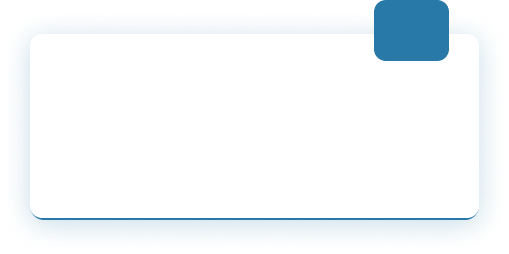
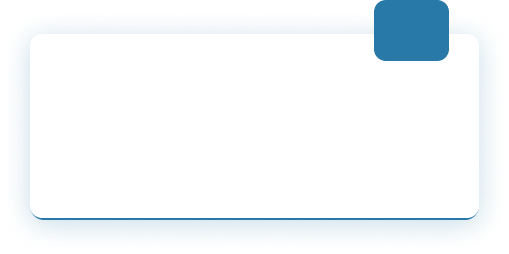
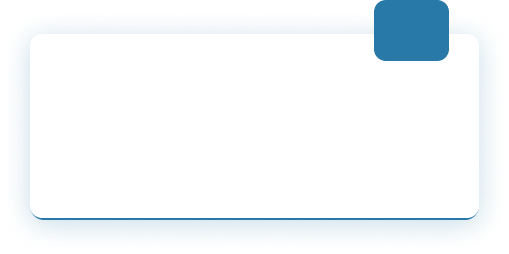
Deployed on Github Pages

**Real Time Chat Application**

Login/Signup to access the application Invite people using emails

Create chat rooms

Add one-on-one chat with other users



**Link Tree**

Custom link tree Personal and social links QR code to open the link

Deployed on GitHub Pages

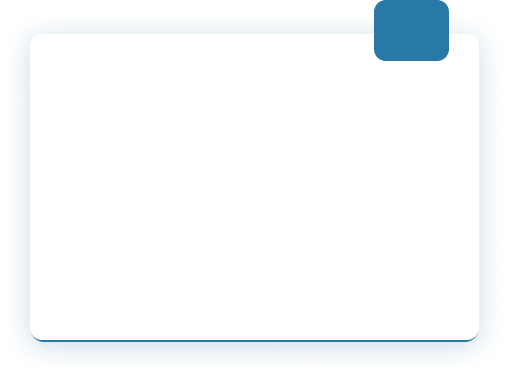
**Movie App**

Online application with all the movies and series Users can search for any movie

Users can view the movie's details Deployed on Netlify

**Meme Generator**

Online application to view trending memes User can upload and create meme on the go



**E-commerce Application**

This application has 2 seperate interfaces User facing

Admin dashboard for managing products Users can do the following things Login/Signup for the application

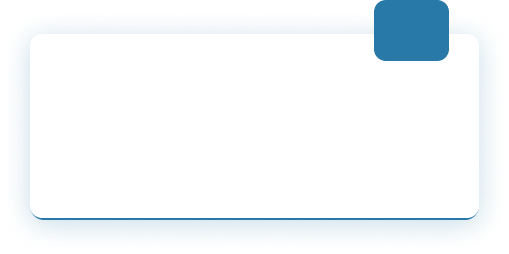
Browse through different products

Filter products based on category, price, etc Like, review products

Add product to cart or wishlist Edit/Delete account

Admin can do the following tasks Add/List products

Update product details, quantity, etc.. View list of all the users Block/unblock a particular user



**Blogging Application**

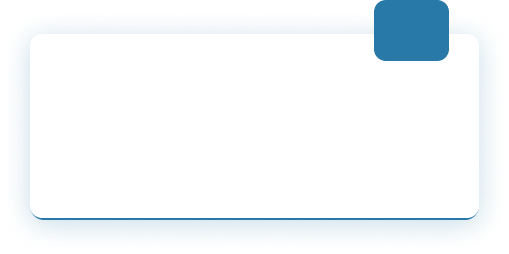
Login/Signup to the application Create article

View list of all articles Edit/Delete his/her own articles

Add categories, tags, and filters to list blog page Follow other article authors

Favorite/like articles

Add comments to the articles

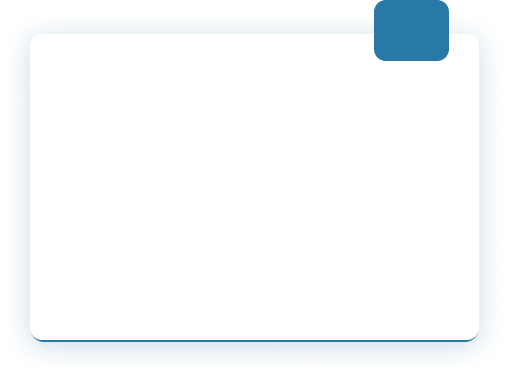


**Task Management**

Login/Register to the application Add daily tasks for themselves Assign a due date of completion Mark them as complete/incomplete

View weekly/monthly statistics of their todos

**Website Book store / Library Management / Stock Keeping Application**



This is an online library management app where users can rent books for a specific time, like them, and can also review books. This will have 2 interfaces:

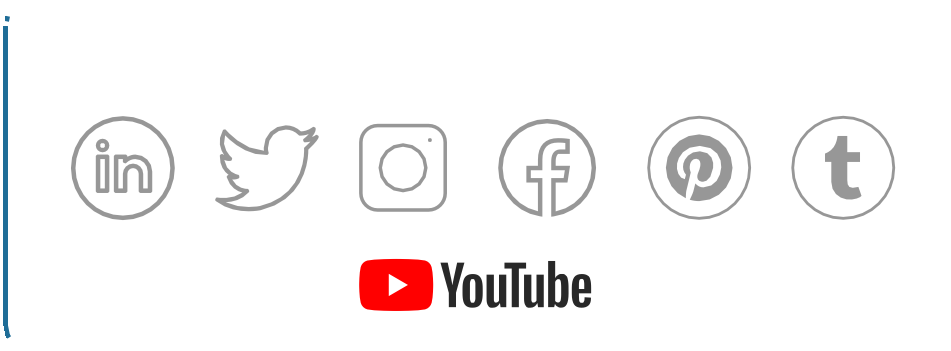
1. User Interface
2. Admin Interface

Users registered for this application can browse books from the library and filter them based on category, author, publications, etc..

Pay & Rent them for a specific duration Like/Review them

Admin of this application can List/manage books Track rented books and their availability

Send notifications via email to users once their lease expires



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