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PROFESSIONAL

# TECHELEARN

— IT TRAINING —  
HANDBOOK

**FULL STACK WEBAPP  
DEVELOPMENT  
CERTIFICATION COURSE**



[WWW.TECHELEARN.COM](http://WWW.TECHELEARN.COM)



[INFO@TECHELEARN.COM](mailto:INFO@TECHELEARN.COM)



9426245757

# Full Stack Certification Course

**"Master Full Stack Development and Build Modern Web Applications"**

Take the next step in your development career with our **Full Stack Certification Course** at **TECHELEARN**.

Whether you're a beginner or looking to enhance your skills, our comprehensive course covers everything you need to know to become a proficient full-stack developer. Master both front-end and back-end technologies and learn how to build end-to-end web applications.

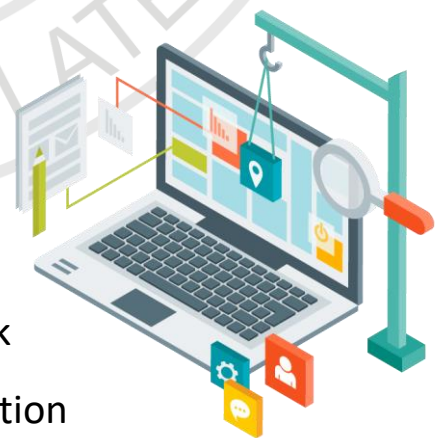
Full stack development has become one of the most sought-after skills in the tech industry, and this course equips you with the knowledge and hands-on experience to create dynamic, scalable web applications from scratch.



## Why Learn Full Stack Development?

In today's fast-paced tech environment, full stack developers are highly valued for their ability to work across the entire development process.

From creating engaging user interfaces to handling databases and server-side logic, full stack developers are experts in all layers of web application development.





A **Full Stack Developer** is skilled in the following:

- **Front-End Development:** Building the user interface and user experience.
- **Back-End Development:** Writing the server-side logic and integrating databases.
- **Version Control:** Using tools like Git and GitHub to manage and collaborate on code.
- **Deployment:** Deploying applications and ensuring scalability and performance.



Our course covers these skills and more, helping you transition into a **Full Stack Developer** role with real-world expertise.



### What Will You Learn in This Course?

Our **Full Stack Certification Course** offers a structured, comprehensive learning path that covers all major technologies used in full-stack web development. You will work with the most in-demand front-end and back-end technologies and learn how to combine them to create robust web applications.



## Course Breakdown:

### 1. Introduction to Full Stack Development

- Understanding full-stack web development and the role of a full-stack developer.
- Overview of front-end, back-end, and database technologies.
- The importance of responsive and dynamic web applications.



### 2. Front-End Technologies (Client-Side Development)

- **HTML5:** The foundation of web structure and layout.
- **CSS3:** Styling and positioning elements for visually appealing designs.
- **JavaScript:** Adding interactivity and functionality to web pages.
- **ReactJS:** Building dynamic, high-performance user interfaces with React.
- **Bootstrap:** Quickly designing responsive websites with the Bootstrap framework.
- **jQuery:** Enhancing JavaScript functionality with simplified syntax.

### 3. Back-End Technologies (Server-Side Development)

- **Node.js:** JavaScript runtime for building fast and scalable server-side applications.



- **Express.js:** Web framework for building RESTful APIs and handling HTTP requests.
- **Authentication:** Implementing user authentication and authorization using JWT (JSON Web Tokens).
- **APIs:** Creating and consuming RESTful APIs for communication between the front-end and back-end.



#### 4. Database Management

- **SQL vs. NoSQL:** Understanding the difference and when to use each type of database.
- **MongoDB:** NoSQL database for handling flexible, document-based data.
- **MySQL/PostgreSQL:** Traditional relational databases for structured data storage.
- **Mongoose:** ODM (Object Data Modeling) for MongoDB to simplify database operations.



#### 5. Version Control & Collaboration

- **Git:** Managing and tracking changes in your codebase.
- **GitHub/GitLab:** Hosting and collaborating on code with version control tools.
- **Branching and Merging:** Handling multiple versions of code and collaborating in teams.



## 6. Deployment & Hosting

- **Heroku:** Platform-as-a-Service (PaaS) for easy app deployment.
- **AWS/GCP:** Cloud services for scalable and secure web applications.
- **Docker:** Containerization technology for packaging applications and environments.
- **CI/CD:** Continuous Integration and Continuous Deployment for efficient development workflows.

## 7. Real-World Project Development

- **Hands-on Projects:** Develop real-world applications such as a task manager, eCommerce website, or blog platform.
- **Capstone Project:** Work on a final project that combines front-end and back-end technologies to build a complete web application.
- **GitHub Portfolio:** Showcase your skills with projects uploaded to GitHub for potential employers.

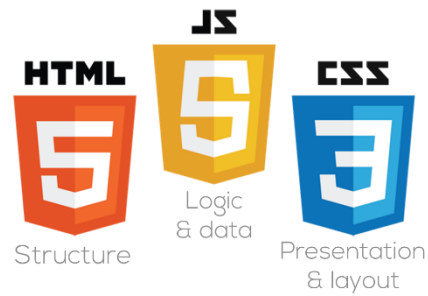






## Course Highlights

1. **Module 1: Introduction to Full Stack Development**
2. **Module 2: Front-End Development (HTML, CSS, JavaScript, ReactJS)**
3. **Module 3: Back-End Development (Node.js, Express.js, MongoDB)**
4. **Module 4: Working with APIs and Integrating Front-End with Back-End**
5. **Module 5: Database Management (MongoDB, MySQL, PostgreSQL)**
6. **Module 6: Version Control with Git and GitHub**
7. **Module 7: Deployment and Cloud Platforms (Heroku, AWS)**
8. **Module 8: Real-World Projects and Portfolio Building**
9. **Module 9: Final Project and Job Support**



## Who Should Take This Course?

Our **Full Stack Certification Course** is designed for:

- **Aspiring Developers** who want to learn both front-end and back-end technologies.
- **Web Developers** looking to level up and expand their skillset by becoming full-stack developers.



- **Software Engineers** aiming to shift to full-stack development.
- **Tech Enthusiasts** passionate about learning how to build complete web applications from scratch.
- **Students and Professionals** seeking to enhance their resume and career prospects in web development.



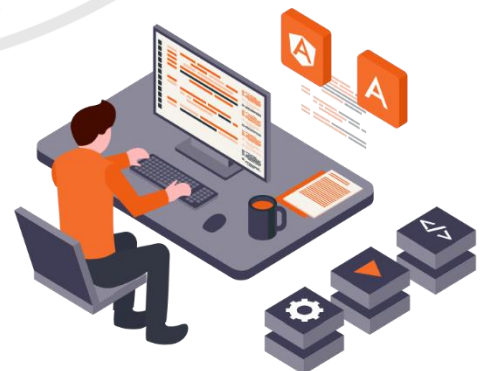
### Why Choose TECHELEARN?

- **End-to-End Learning:** From HTML and CSS to advanced UI/UX principles, this course covers every aspect of web design.
- **Real-World Projects:** Build a professional portfolio with real-world web design projects.
- **Experienced Instructors:** Learn from industry experts with years of experience in web design and development.
- **Global Certification:** Earn a globally recognized certificate that boosts your career prospects.
- **Career Support:** Get personalized job assistance and career guidance to land your dream job in web design.





### Real-World Projects You'll Build

-  **Dynamic Task Management System**
-  **E-Commerce Product Catalog**





-  **Real-time Event Calendar App**
-  **Data Visualization Dashboard**





These projects simulate job roles and help you **build a portfolio** that stands out to employers.




### **Course Format**

Format Detail	Description
<b>Duration</b>	3 Months Training + 1 Month Practice
<b>Learning Approach</b>	30% Theory + 70% Practical
<b>Assessment</b>	90-minute certification exam with 60 MCQs
<b>Passing Score</b>	70%
<b>Certification Criteria</b>	Successful project submission + exam pass

### **Training Modes**

-  **Live Instructor-Led Online Training**
-  **Self-Paced Learning + Assignments**
-  **Corporate On-Demand Training Workshops**
-  **Hybrid Model for Flexibility & Impact**



 Includes: Source Code, Assignments, Quizzes, Final Capstone Project & Certificate Exam

### Bonus Add-ons

- ✓ GitHub Portfolio Setup
- ✓ Resume & LinkedIn Optimization
- ✓ Interview Preparation Sessions
- ✓ Lifetime Access to Developer Community


### Partner with TECHELEARN – Upskill Your Team

TECHELEARN offers customized **Full Stack** training for businesses.

-  Talk to Our Enterprise Team
-  Request a Tailored Group Training Plan

### Get Started Today

Join **11,000+** learners who trust **TECHELEARN** for career-ready skills.

 **Full Stack** skills are in high demand. Don't just learn—**Master it with TECHELEARN.**



# GET IN TOUCH

- *Personalized Support:* Whether you're seeking technical assistance or career guidance, we offer personalized, professional support.
- *Collaborate with Us:* We partner with educational institutions, businesses, and experts to offer training that meets industry needs.

## **JOIN US IN THIS EXCITING JOURNEY!**



+91 9426245757



[www.techelearn.com](http://www.techelearn.com)



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