



**QUILLANCE
INFOTECH PVT LTD.**

Web Development

The Quillance Web Development Program is a complete beginner-to-advanced training program designed to help learners master modern website and web application development. This program covers everything from basic web design and frontend development to advanced backend systems, deployment, cloud hosting, and scalable web application architecture used by modern companies and startups.



Program Overview

What You Will Learn

- Build responsive and visually appealing websites
- Create interactive frontend applications
- Develop backend APIs and manage databases
- Work with modern web frameworks and tools
- Deploy and manage live web applications
- Understand scalable web architecture and optimization

Career Opportunities

After completing this program, learners can apply for roles such as:

- Web Developer
- Frontend Developer
- Backend Developer
- Full Stack Web Developer
- MERN Stack Developer
- Software Engineer Intern

Live Projects You'll Build

- **Project 1 – Personal Portfolio Website**

Design and develop a responsive personal portfolio website using HTML, CSS, and JavaScript.

- **Project 2 – Business Landing Page**

Build a professional business website with responsive layouts and modern UI design.

- **Project 3 – E-Commerce Website**

Create a complete shopping platform with products, cart functionality, authentication, and checkout features.

- **Project 4 – Real-Time Chat Application**

Develop a real-time communication platform with frontend and backend integration.

- **Project 5 – Multi-Vendor Marketplace Platform**

Create a scalable marketplace platform with advanced backend architecture and admin systems.

- **Project 6 – Enterprise Web Management System**

Build a production-ready enterprise application with deployment and cloud integration.

MODULE 1

Web Development Foundations

TOPICS COVERED:

- Introduction to Web Development & Internet Basics
- HTML5 Structure, Forms & Semantic Elements
- CSS3 Fundamentals & Styling Techniques
- Flexbox, Grid & Responsive Design Principles
- Bootstrap & Tailwind CSS Basics
- Git, GitHub & Version Control Workflow

SKILLS GAINED:

- Responsive Web Design
- Frontend Development Basics
- UI Styling Techniques
- Version Control Workflow

PRACTICAL LEARNING:

- Create responsive web pages
- Build landing pages and portfolio websites
- Design mobile-friendly layouts
- Use GitHub for project collaboration

MODULE 2

JavaScript & Modern Frontend Development

TOPICS COVERED:

- JavaScript Fundamentals & ES6 Concepts
- Variables, Functions, Arrays & Objects
- DOM Manipulation & Event Handling
- Async JavaScript, APIs & Fetch
- React.js Fundamentals & Component Architecture
- Redux Toolkit, TypeScript & State Management

PRACTICAL LEARNING:

- Build dynamic user interfaces
- Develop single-page applications
- Integrate APIs into frontend systems
- Manage complex frontend application states

SKILLS GAINED:

- JavaScript Programming
- React Development
- API Integration
- Frontend Architecture Understanding

MODULE 3

Backend Development & Database Engineering

TOPICS COVERED:

- Introduction to Backend Architecture
- Node.js Runtime & Express.js Framework
- REST API Development & CRUD Operations
- MongoDB, SQL & Database Relationships
- Authentication & Authorization (JWT/OAuth)
- API Security, Validation & Error Handling

SKILLS GAINED:

- Backend Development
- Database Management
- API Engineering
- Authentication & Security Concepts

PRACTICAL LEARNING:

- Build backend servers and APIs
- Connect frontend applications with databases
- Implement authentication systems
- Handle server-side business logic

Module 4

Cloud, Hosting & Deployment

TOPICS COVERED:

- Linux Basics & Server Management
- Hosting, Domains & Deployment Fundamentals
- Docker & Containerization Concepts
- AWS Cloud Fundamentals (EC2, S3, IAM)
- CI/CD Pipelines & GitHub Actions
- Nginx, Monitoring & Production Deployment

PRACTICAL LEARNING:

- Deploy applications to cloud servers
- Configure hosting environments
- Work with Docker containers
- Set up deployment automation pipelines
- Manage production-ready web applications

SKILLS GAINED

- Cloud Deployment Fundamentals
- DevOps Workflow Understanding
- Linux & Hosting Management
- CI/CD Pipeline Configuration
- Production Deployment Skills

Module 5

Advanced Web Development & Scalable Architecture

TOPICS COVERED:

- System Design Fundamentals
- Microservices Architecture
- GraphQL API Development
- Redis Caching & Performance Optimization
- Web Security & OWASP Best Practices
- Scalable Backend & High-Traffic Handling

PRACTICAL LEARNING:

- Design scalable application systems
- Optimize APIs and application performance
- Implement caching mechanisms
- Secure applications against vulnerabilities
- Handle enterprise-level traffic scenarios

ADVANCED CONCEPTS INCLUDED:

- Scalable Application Architecture
- API Optimization Techniques
- Load Balancing Concepts
- Advanced Authentication Systems
- Production-Level Performance Tuning
- Enterprise Security Practices

SKILLS GAINED

- Advanced Backend Engineering
- System Design Understanding
- Performance Optimization Techniques
- Scalable Architecture Knowledge
- Enterprise Security Practices

Module 6

Live Project & Agile Development

TOPICS COVERED:

- Agile & Scrum Methodology
- Sprint Planning & Team Collaboration
- Full Stack Web Application Development
- Third-Party API Integration
- Testing, Debugging & Optimization
- Production Deployment & Final Presentation

PRACTICAL LEARNING:

- Work in collaborative development teams
- Participate in sprint-based workflows
- Build production-ready web applications
- Integrate external APIs and services
- Debug and optimize applications
- Present projects professionally

SKILLS GAINED:

- Agile Workflow Understanding
- Team Collaboration Skills
- Real-World Development Experience
- API Integration Techniques
- Debugging & Optimization Skills
- Production Deployment Experience

Module 7

Placement & Career Preparation

TOPICS COVERED:

- Resume Building & ATS Optimization
- LinkedIn & Professional Branding
- Portfolio & GitHub Profile Development
- Technical Interview Preparation
- Mock Interviews & HR Preparation
- Freelancing & Career Guidance

CAREER SUPPORT INCLUDES:

- Resume & Portfolio Reviews
- GitHub Profile Optimization
- Mock Technical Interviews
- Internship & Placement Assistance
- Freelancing & Startup Guidance
- Career Mentorship Sessions

SKILLS GAINED

- Professional Portfolio Building
- Technical Interview Readiness
- Communication & HR Skills
- Career Planning Strategies
- Freelancing Fundamentals
- Industry Preparation Skills



**QUILLANCE
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Thank You!!



Mail
info@quillance.com



Website
www.quillance.com