

TuxAcademy – Full Stack Development Course

5-Month Professional Training

Frontend + Backend + Database + Authentication + Deployment

Capstone Project | Certification

Course Objective

This professional Full Stack Development program covers HTML5, CSS3, JavaScript, Angular, .NET Core, REST APIs, SQL Server, authentication, security, full stack integration, project development, testing, debugging and certification.

Course Overview

- Duration: 5 Months (20 Weeks)
- Schedule: 2 Hours/Session, 3 Sessions/Week
- Total Hours: ~120 Hours
- Format: 60% Practical | 40% Theory
- Includes Capstone Project + Certificate
- Fee: 60000+GST

Week 1: HTML & CSS Foundations

- HTML5 basics and document structure (Theory)
- CSS3 basics and styling fundamentals (Theory)
- Build responsive web pages (Practical)

Week 2: Responsive Web Design

- HTML5 page structure and CSS3 layout (Theory)
- Responsive page design (Practical)
- Build and refine responsive pages (Practical)

Week 3: JavaScript Essentials

- JavaScript syntax, DOM and events (Theory)
- Interactive features with JavaScript (Practical)
- DOM-based page interactions (Practical)

Week 4: JavaScript & APIs

- JavaScript essentials and browser interaction (Theory)
- Fetch API and API-based workflows (Practical)
- Form validation exercises (Practical)

Week 5: Advanced JavaScript

- ES6 concepts and asynchronous JavaScript (Theory)
- Fetch API workflows (Practical)
- Form validation and API integration (Practical)

Week 6: Frontend with Angular

- Angular components and application structure (Theory)
- Angular routing (Theory)
- Angular mini project (Practical)

Week 7: Angular Application Development

- Angular components and routing (Theory)
- Build frontend views with Angular (Practical)
- Angular mini project development (Practical)

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Week 8: Backend with .NET Core

- API basics and controllers (Theory)
- REST API development with .NET Core (Practical)
- Build basic backend endpoints (Practical)

Week 9: .NET Core Backend II

- Middleware and Dependency Injection (Theory)
- CRUD APIs with .NET Core (Practical)
- API testing with Postman (Practical)

Week 10: Database Integration

- SQL Server basics and joins (Theory)
- Connect API with database (Practical)
- Database-backed application workflow (Practical)

Week 11: SQL Server & API Integration

- SQL Server basics and joins (Theory)
- API + database connection (Practical)
- CRUD data workflows (Practical)

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Week 12: Authentication & Security

- JWT and Identity concepts (Theory)
- Secure login implementation (Practical)
- Authentication workflow testing (Practical)

Week 13: Secure Full Stack Applications

- JWT and Identity (Theory)
- Implement secure login (Practical)
- Connect authentication with application flow (Practical)

Week 14: Full Stack Integration

- Connect Angular with API (Theory)
- Build a working full stack application (Practical)
- Frontend-backend integration exercises (Practical)

Week 15: Full Stack Application Development

- Angular + API integration (Theory)
- Working application development (Practical)
- End-to-end integration testing (Practical)

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Week 16: Project Phase I

- Project planning (Theory)
- UI/UX planning and database schema (Practical)
- Project structure and initial implementation (Practical)

Week 17: Project Phase I – Development

- Project planning and application structure (Theory)
- UI/UX + DB schema implementation (Practical)
- Development progress review (Practical)

Week 18: Project Phase II

- API development and frontend binding (Practical)
- Connect application components (Practical)
- Testing and debugging (Practical)

Week 19: Project Phase II – Testing

- API development and frontend binding (Practical)
- Testing and debugging (Practical)
- Working application refinement (Practical)

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