

## Backend Web Development Course Content

### Module 1: Introduction to Backend Development

- Understanding Server-Side Technologies
- Role of Backend in Web Applications
- Setting Up Development Environment
- Introduction to Git and GitHub

### Module 2: Node.js & Express.js

- Introduction to Node.js
- Setting Up Express.js Framework
- Routing & Middleware
- RESTful API Development

### Module 3: Database Management

- SQL vs NoSQL Databases
- MySQL / PostgreSQL Basics
- MongoDB with Mongoose
- CRUD Operations with Databases

### Module 4: Authentication & Security

- User Authentication (JWT & OAuth)
- Password Hashing & Encryption
- Role-Based Access Control (RBAC)
- Secure API Development Best Practices

### Module 5: Advanced Backend Concepts

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- WebSockets & Real-time Communication
- Background Jobs & Task Scheduling
- Caching Strategies (Redis, Memcached)
- Logging & Monitoring

#### Module 6: Deployment & DevOps

- CI/CD Pipelines Overview
- Hosting on Cloud Services (AWS, Heroku)
- Docker & Kubernetes Basics
- Server Optimization & Scaling

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