



2024

CERTIFIED BACKEND DEVELOPER

Level Up Your Backend Skills with ASB!

Master the intricacies of backend development with ASB's immersive course. Whether you are a coding enthusiast or an experienced developer looking to sharpen your edge, we are here to equip you with the tools and expertise to build secure, efficient, and scalable web applications.

ASB's backend developer course covers an understanding of essential languages like Java, Node.js, etc., and frameworks like Express.js. Under the guidance of our expert mentors, you will learn to architect databases, handle APIs, and optimize performance for seamless user experiences.

Our project-based curriculum focuses on practical applications of backend development concepts and technologies, understanding the security challenges, and mastering deployment tactics.

The size of the global backend as a service market was estimated at USD 2,434.6 million in 2022, and between 2023 and 2029, it is expected to rise at a substantial CAGR of 21.8%.

Join ASB and prep yourself for a thriving career in backend development.

Key Features



COURSE LENGTH
3 months



CLASS SIZE
20 Students



EFFORT
10 Hours a Week



LIVE PROJECTS



MODEL
Instructor - led



TRAINING
80% Practical, 20 % Theory

Express JS

node JS

MySQL

Socket.io

mongoDB.

SaaS SAAS

Syllabus / Curriculum

Module 1 Dynamics Web Apps with Node.js & MongoDB

Introduction to Node.js and MongoDB

- Basics of Node.js and its event-driven architecture
- Understanding Node.js, npm, and MongoDB
- Connecting Node.js to MongoDB
- Creating basic applications with Node.js and MongoDB
- Exploring MongoDB basics and data model

Building with Node.js

- Node.js modules and the CommonJS pattern
- Setting up package.json for dependency management
- Asynchronous JavaScript concepts in context of Node.js
- Working with file operations and fs module using callbacks
- Promises and the async/await syntax in Node.js

Module 2 Express.js Framework

Introduction to Express.js

- Introduction to Express.js for building web applications
- Creating a basic web server with Express
- Exploring routing and middleware concepts in Express

Module 3 RESTful APIs with Node.js, Express, and MongoDB

Designing Restful APIs using Express

- Integrating MongoDB with Node.js using Mongoose

- Connecting Node.js to MongoDB: Establishing connections, handling errors

- Performing CRUD operations with MongoDB and Mongoose

- Handling HTTP methods (GET, POST, PUT, DELETE) in the context of MongoDB

Authentication and Authorization

- Implementing user authentication with Passport.js
- Securing routes and implementing access control
- Using JSON Web Tokens (JWT) for stateless authentication
- Applying authentication and concepts to MongoDB data

Testing and Debugging

- Introduction to testing frameworks
- Writing unit tests for Node.js applications
- Mocking and stubbing techniques in testing
- Debugging and troubleshooting Node.js and MongoDB applications

Real-time Applications with Socket.io

- Introduction to real-time communication
- Building a real-time chat application with Socket.io
- Handling events and broadcasting in Socket.io with MongoDB

Module 4 **Data Structure and Algorithms**

Stack and Queue

- Primitive and Composite Data Types
- Time and Space Complexity of Algorithms
- Stack and Primitive Operation on Stack
- Applications- Infix, Postfix, Prefix and Recursion
- Primitive Operations on Queues
- Circular Queue, De Queue, and Priority Queue

Searching and Sorting

- Types of Searching and Sorting Algorithms
- Comparison of Sorting Methods
- Basic Operations on Different Types of Linked Lists
- Linked Representation of Stack and Queue
- Application of Linked List

Tree and Graph

- Basic Terminology
- Binary Trees
- Representation as Array and List
- Operation and Applications of Binary Tree
- Traversal of Binary Tree
- Types of Binary Trees
- Hash Table
- Collision Resolution Techniques.
- Graphs & Their Types
- Representation of Graphs
- Graph Traversal – Depth First and Breadth First
- Spanning Trees
- Minimum Spanning Trees
- Shortest Path Algorithm

Module 5 **Project and Practice**

On successful completion of the programme,
you will earn a coveted certificate as **Antier School of
Blockchain.**



* The Certificate shown above is for indicative purpose only. The actual certificate may vary.



VIKRAM R SINGH
CEO
Founder, Antier Solutions.



SHASHI PAL
Chief Operating
Officer



VISHAL SHARMA
Head - Learning &
Development



ANKIT BHATIA
Chief Training Officer/
Technical Project Manager



AJAY MITTAL
Academic Program
Advisor And Mentor



KARAN BHAI
Head - Business
Intelligence



ROHIT KUMAR
Software Developer
Cum Trainer



UDAYVEER SINGH
Lead Trainer
B.Tech, CSE



SAURABH KAWATRA
Technical Software
Trainer



GAGANDEEP SINGH
Product Head

Best-in-Class
Blockchain
Industry Experts



Internship and Placement Opportunity on Successful Completion.

Career Options After Course Completion.

- ✓ Backend Developer
- ✓ Data Engineer
- ✓ Database Administrator
- ✓ Server Administrator
- ✓ Systems Architect
- ✓ API Developer
- ✓ Systems Engineer
- ✓ Backend QA Engineer
- ✓ Technical Support Engineer
- ✓ Backend Services Specialist
- ✓ Backend Security Engineer



Certificate Programme in **BACKEND DEVELOPMENT**

YOUR DREAM CAREER! JUST A CLICK AWAY !!!



Any questions?

CONTACT ME



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