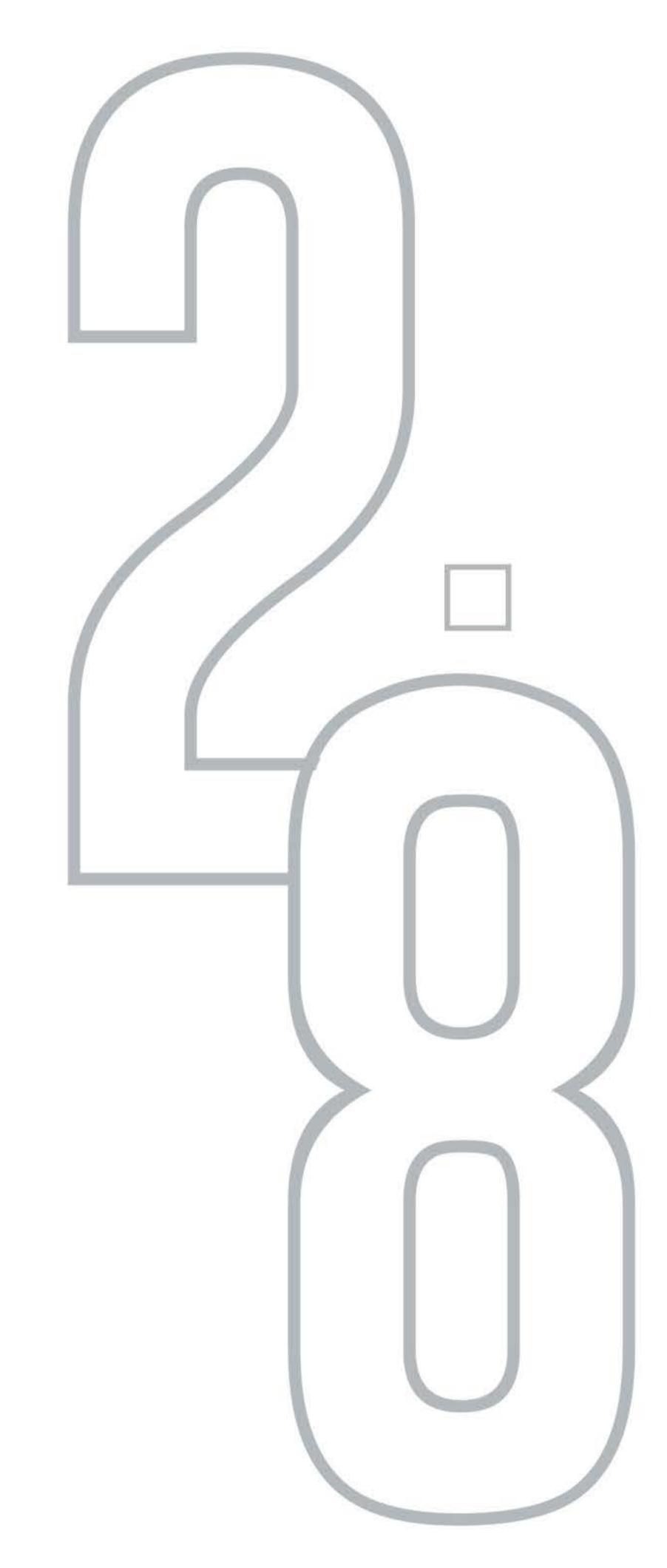


#### VERSION





EAPL/CRASH/CRTC07

COURSE CODE

**EACNJ** 

SUB CATEGORY

SOFTWARE DEVELOPMENT







## ELYSIUM ACADEMY



# CORE NODEJS COURSE ELYSIUM ACADEMY CORE NODEJS COURSE

ELYSIUM
ACADEMY
CORE NODEJS
COURSE
ELYSIUM





#### **COURSE DESCRIPTION**



This Core Node.js course provides a comprehensive understanding of Node.js fundamentals, covering topics such as asynchronous programming, event-driven architecture, and server-side development.

#### **COURSE GOALS**

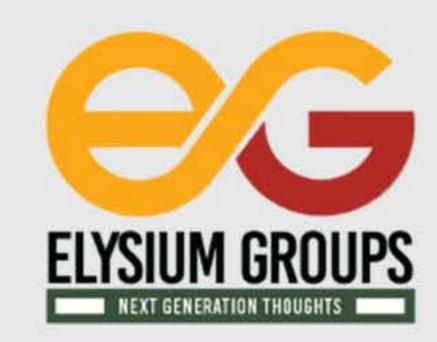


By the end of the course, You will proficiently develop scalable, high-performance applications using Node.js. They will gain hands-on experience in building real-world applications, mastering concepts like RESTful APIs, authentication, and database integration.

#### **FUTURE SCOPE**



Graduates will be equipped for roles as Node.js developers, backend engineers, or full-stack developers. They will possess the skills to adapt to emerging trends and technologies in the Node.js ecosystem, ensuring their relevance and competitiveness in the ever-evolving tech industry.







## CHAPTER CHAPTER

#### INTRODUCING NODE.JS 14

- a. Installing Node.js 14 with npm
- b. Accessing the Node.js API documentation
- c. Adopting new JavaScript syntax in Node.js 14



# CHAPTER 1

#### HANDLING I/O

- a. Technical requirements Handling standard I/O
- b. Managing files with fs module
- c. Inspecting file metadata
- d. Watching for file updates
- e. Creating TCP server and client
- f. Communication



# CHAPTER

## STREAMS, STREAMS, STREAMS

- a. Creating streams in Node.js
- b. Interacting with paused streams
- c. Piping streams
- d. Transforming data with transform streams
- e. Building stream pipelines









# CHAPTER CHAPTER

#### USING WEB PROTOCOLS

- a. Using http module to make HTTP requests
- b. Handling HTTP POST requests
- c. Using formidable to handle file uploads
- d. Building an HTTP server to accept GET requests
- e. Using ws to create a WebSocket server
- f. Sending an automated email using your own SMTP server



### DEVELOPING NODE.JS MODULES

- a. Consuming Node.js modules
- b. Setting up your own module
- c. Implementing your module
- d. Preparing and publishing your module to npm
- e. Using ECMAScript modules



# CHAPTER

### EXPLORING NODE.JS WEB FRAMEWORKS

a. Building web applications with Express.js







# CHAPTER

## WORKING WITH DATABASES

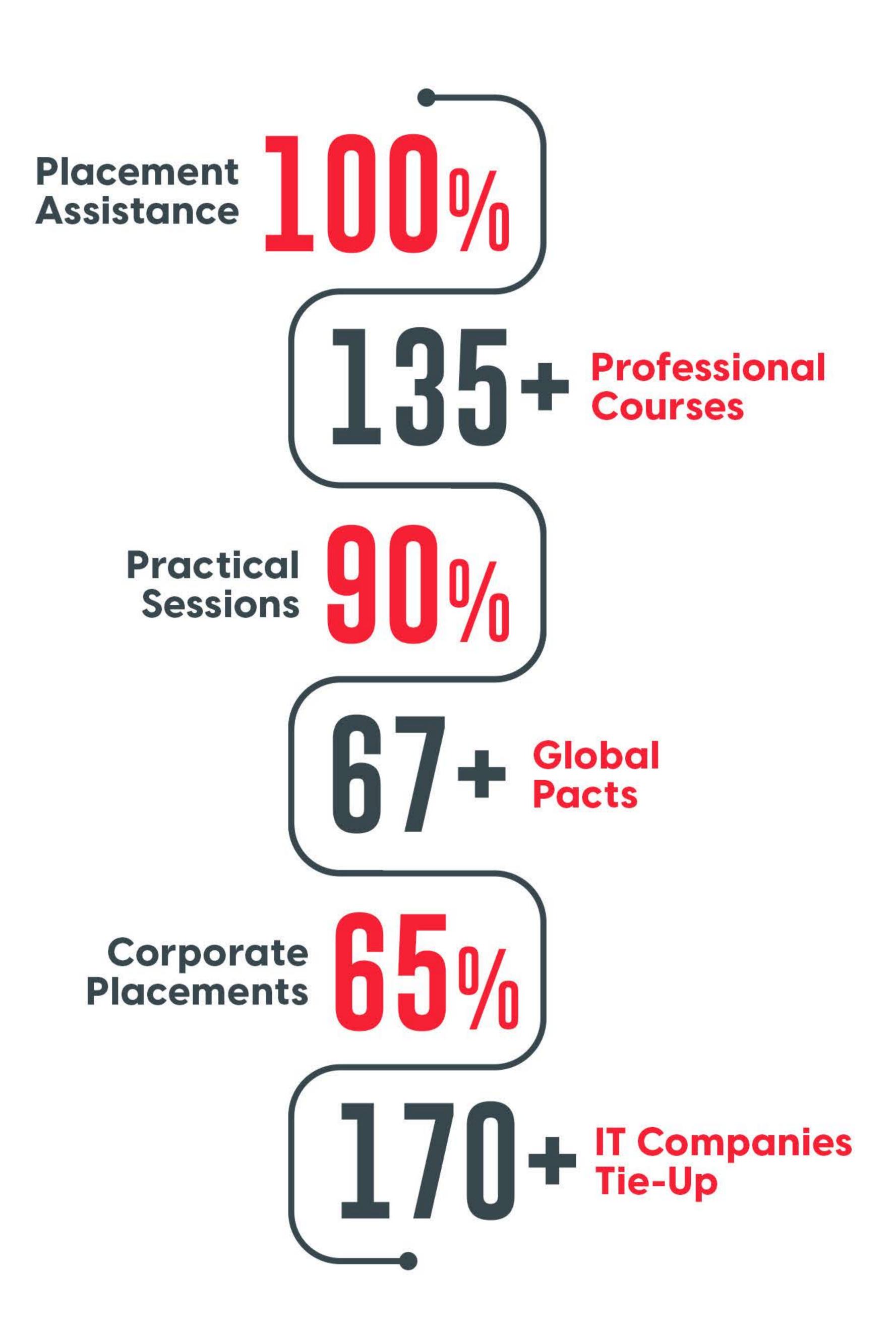
- a. Connecting and persisting to a MySQL database
- b. Connecting and persisting to MongoDB











# ELYSIUM GROUP OF COMPANIES ELYSIUM ACADEMY PRIVATE LIMITED

ELYSIUN

## AUTHORIZED INTERNATIONAL

-Partners-















