COURSE SYLLABUS

JavaScript Development with Node, Express, & MongoDB

Learn to build and host web applications with Node, build APIs with Express, and store data with MongoDB. Gain skills in I/O engine, working with npm, file system, API route development, middleware, MongoDB setup, schema development, MongoDB application management, and querying.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/node-express-and-mongo-db



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Course Outline

What is an I/O engine?

- Input / Output engine
- File execution
- Creating a basic http server

Working with npm (Node package manager)

- Installing modules
- Assessing node_modules folder
- Creating a package.json file
- Managing your application's assets

Working with the file system

- Reading directories
- Reading and serving image files
- Serving image files
- Streaming data

API route development

- Assessing the main types of HTTP routes
- Hosting express app instance
- Creating simple GET routes

Middleware

- Creating middleware functions
- Request, Response, Next

- Cookie creation

How to set up MongoDB

- Creating a connection string
- Hosting MongoDB
- Authenticating into a DB

Schema development

- Creating the model
- Filtering data

MongoDB application

- Managing documents
- Security measures

Querying

- Filtering documents
- Populations
- Limits
- Paginations