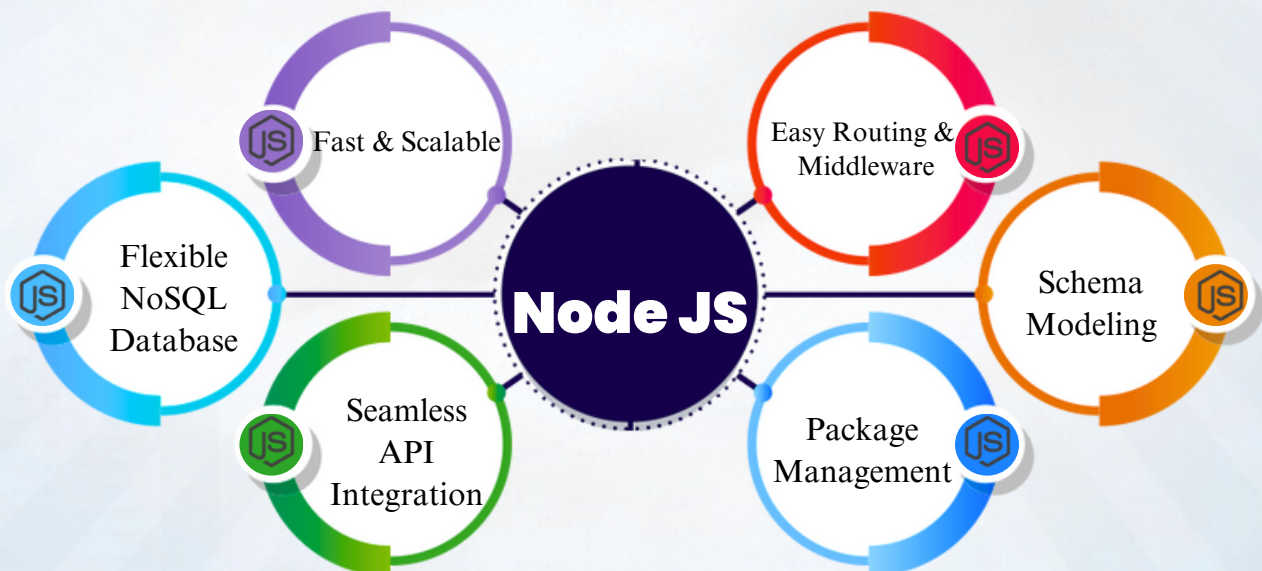




Express JS



Backend Development with Node.js, Express.js & MongoDB



Backend Development with Node JS, Express JS, and MongoDB

- Introduction to NodeJS
- Recap of Javascript
 - Object
 - Array
 - Callback
- Module Concept using CommonJS Module Pattern
- Callbacks
- Callback hell
- Promises in JS
- Difference between callback hell and Promises
- Node Module System
 - File
 - Readfile
 - Writefile
 - Renamefile
 - Deletefile
 - Creating new file
 - Path
 - path.basename()
 - path.dirname()
 - path.extname()
 - path.join()
 - Http
 - http.createServer()
 - server.listen()

- ☒ http.get()
- ☒ req.on()
- WebServer
- Overview on How the Web Works
 - Client-Server Architecture
 - Role of Client
 - Role of Server
 - Request Methods (GET, POST, PUT, DELETE, etc.)
 - Request and Response Structure (Headers, Body, Status Codes)
- Responses
 - Web page as a response
 - JSON as a response
 - Normal text as a response
 - Setting headers for a response
- Introduction to Express
- Setting up Express
- Key Features of Express
- Understanding of Web API
- Components of a Web API
- REST Principles
 - Statelessness
 - Client-Server Architecture
 - Uniform Interface
 - Resource-Based URL
- HTTP Methods in REST APIs
 - GET
 - POST
 - PUT
 - DELETE
- Building REST APIs with Express
- Sending Responses
 - JSON Responses (**res.json()**)



- HandlingErrors(res.status,next)
 - OrganizingCode
 - Hands-OnExercises
 - SettingUpaBasicExpressServer
 - Creating RESTful Endpoints for a Sample Application (e.g., To-Do List, Library System)
 - Implementing CRUD Operations Using GET, POST, PUT, and DELETE
 - SendingProperStatusCodesandResponses
 - TestingAPIEndpointsUsingToolslikePostman
 - UnderstandingofMiddleware
 - RoutinginExpress
 - MiddlewareinRouting
 - EnvironmentVariables
 - IntroductiontoMongoDB
 - WhatisMongoDB?
 - WhyChooseMongoDB?
 - InstallationofMongoDB
 - InstallationofMongoShell
 - Connecting Mongo Shell with MongoDB Server
 - CreatingtheDatabase
 - Collections
 - BSONFormat
 - CRUDOperations
 - Create
 - InsertingDocuments(db.collection.insertOne, db.collection.insertMany)
 - Read
 - RetrievingDatawithfind()andQueryFilters
 - Update
 - ModifyingDocumentswithupdateOne,updateMany,and \$se
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- Delete
 - Removing Documents with deleteOne and deleteMany
- RelationsinMongoDB
 - TypesofRelations
 - One-to-One,
 - One-to-Many,
 - Many-to-Many
 - ModelingRelationships
 - EmbeddedvsReferencedApproach
- OperatorsinMongoDB
 - QueryOperators
 - UpdateOperator
 - LogicalOperators
 - ArrayOperator Hands
 - OnExercises
- Mongoose
 - IntroductiontoMongoose
 - DefiningSchemas
 - WorkingwithModels
- AuthenticationandAuthorizationusingJWT
- IntegrationofNode.js,Express,andMongoDB
- EndToEndIntegration

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