NodeJS Course Content

Chapter 1 : INTRODUCTION TO NODE WORLD

- ➢ Introduction to Javascript event driven programming
- ➢ Introduction to Node event -driven programming

Chapter 2 : MAKING A WEB SERVER

- ➢ Webserver basis
- ➢ How to set up a router?
- ➢ Serving static files / pages
- ➢ Content caching
- ➢ Streaming and optimization
- ➢ File System Security issues and measures

Chapter 3 : HTTP OBJECT

- ➢ Introduction to HTTP Object
- ➢ Processing POST Data
- ➢ Handling File uploads
- ➢ Using Node as HTTP Client
- ➢ Implementing download Throttling

Chapter 4 : WORKING WITH DATA SERIALIZATION

- ➢ JSON to Object & Object to JSON
- ➢ XML to Object and Object to XML
- ➢ Explanation Browser to Server communication

Chapter 5 : WORKING WITH DATABASES

- ➢ Writing to a CSV File in Database
- ➢ Working with MYSQL Server in Databases

Chapter 6 : WEB DEVELOPMENT WITH EXPRESS

- ➢ Express scaffolding
- ➢ Defining and applying environments
- ➢ Dynamic routing

- Templating IN Express
- CSS engines with Express
- Initializing and using sessions
- Demo of making an Express web application
- File System Security issues and measures

Chapter 7 : ALL ABOUT SECURITY

- Basic Authentication methods
- Passwork cryptography
- Setting up HTTPS
- How to safegaurd your site from cross-site forgeries

Chapter 8 : ADVANCED NETWORK CONCEPTS

- Sending Emails
- Sending SMSs
- Communicating with TCP
- Creating your own SMTP Server
- Virtual Hosting Environment

Chapter 9 : WRITING CUSTOMIZED NODE MODULES

- Creating a test driven Module Mock-up
- Writing a functional mdoule
- Extending the module's API
- Deploying a module to npm

Chapter 10 : GETTING IT TO PRODUCTION

- How to set up production server environment
- How to set up auto crash recovery
- Continous Deployment in Node

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