DIGISNARE TECHNOLOGIES

Node JS Training

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Node Js Course Syllabus

Introduction

- **Prerequisites**
- **What is Node.js?**
- **What is V8 engine?**
- **Why Node.js?**
- **Difference between .js and other server side platforms**
- **Components of Node.js Defining Marketing Goals**
- **What is the difference between save and save-dev?**
- **What is the difference between dependencies and devDependencies ?**

Typescript

Node Module

- **Node Package Manager (NPM) ? Importance of Blogging?**
- **Create Node.js application with TypeScript**
- **Folder Structure of Node.js App**
- **How to Loading core module**
- **Loading core module**
- **Why not to use Require to load module?**
- **Why to use import to load module?**
- **How to create local module?**
- **How to Load local module?**
- **How to load third party modules?**

Asynchronous Node.js

- **Blocking I/O and Non-Blocking process**
- **Synchronous Web Application Processing**
- **Asynchronous Web Application Processing**
- **What is the Event Loop?**
- **Event-driven Programming**
- **File System Module**
- **Callback Method**
- **How Callback Functions Work?**
- **Basic Principles when Implementing Callback Functions**
- **Why not to use Callback function?**
- **What is Promise?**
- **Async and Await**
- **Sending Requests to External API**

Testing Application

- **What is Test Driven Development(TDD) And Behavioral Driven Development(BDD)**
- **Testing Frameworks In Js (use mocha and chai)**
- **Mocha And Basic Testing**
- **Assertion Libraries**
- **Testing Asynchronous Code**
- **Using Promise and Async/Await**
- **Testing API's**

Routing

- **How to Serve request with Routing?**
- **How to create Server Without Express using Http?**
- **What is Express Framework?**
- **What is Middleware?**
- **How to manage Static files?**
- **What View Engine(Template) Node.Js supports ?**
- **Submitting Data using Body-parser**

MongoDB

- **What is MongoDB?**
- **Features of MongoDB?**
- **Aggregation Pipeline**
- **Installing MongoDB and Compass.**
- **How do I start Mongodb from windows?**
- **MongoDB have primary key?**

Rest Api

- **What is Mongoose**
- **Mongoose Schema vs Model**
- **What is Mongodb schema validator ?**
- **Rest API's in details**
- **Defining the Schema in Node.js**
- **Defining Model in Node.js**
- **Rest Application Using Mongoose, Express**
- **Testing Rest api in Node.Js**

Authentication and Authorization

- **Authentication**
- **Authorization**
- **Why to Authorize User?**
- **JWT And Hashing**
- **When Should i use JWT?**

Mini project - Quiz App

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