Learning Node JS

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Top Backend Technologies

Node.js - is an open-source, cross-platform JavaScript framework that is used to build server-side and networking applications.

Django - is an open-source framework based on Python. It is a web framework from the server's side. Django follows the Model Template View (MTV) architecture.

Spring Boot - is an open-source web framework based on Java that allows developers to build production-grade and standalone applications.

ASP.NET - is an open source web framework, created by Microsoft, for building modern web apps and services that run on macOS, Linux, Windows, and Docker.

Laravel - is a PHP framework that provides a built-in user interface, flexibility, API support, creativity, and an extensive range of various libraries that help in the development process of secure web applications

Introduction to Node JS

Node.js was invented for server side scripting and uses JavaScript.

Node.js is free and open source server environment.

Node.js runs on various OS(Windows, Linux, etc.)

Node.js continues with the next request in case current request is delayed.

Node.js can collect data submitted by front end users.

Node.js can add, delete, modify data in your database

Visit https://nodejs.org/en to download and install node js

Request & Response

```
Create a folder careerxnode and open invs code

Open terminal and type the following command npm init –y //this will create package.json file

Add following line in package.json, below name attribute "type":"module",

Create _gitignore file (Add /node_module and _gitignore in the file)

• app.get('/', function (req, res) {

• // --

• })
```

- Request Object The request object represents the HTTP request and has properties for the request query string, parameters, body, HTTP headers, and so on.
- Response Object The response object represents the HTTP response that an Express app sends when it gets an HTTP request.

Installing required packages

```
Create a folder lyrosnode and open invs code

Open terminal and type the following command npm init –y //this will create package.json file

Add following line in package.json, below name attribute "type":"module",

Create _gitignore file (Add /node_module and _gitignore in the file)

npm install express –save npm install mongodb - - save npm install mongoose npm install bcrypt npm install cors npm install jsonwebtoken npm install nodemon
```

Introduction to Express JS

Express.js is fast and minimalist web framework for Node.js. An Express application is essentially a series of middleware function calls.

Express.js has powerful models for URL routing (matching an incoming URL with a server function), and handling HTTP requests and responses.

By making XML HTTP Requests (XHRs) or GETs or POSTs from your React.js front end, you can connect to Express.js functions that power your application.

Server2.js - Express app.get()

```
import express from "express";
var app = express();
app.listen(8080, () => {
   console.log("Server Started on Port 8080");
});
app.get("/", (req, res) => {
   res.send("GET request for /");
});
app.get("/users", (req, res) => {
   res.send("Got a GET request for /users");
});
// This responds a GET request for abcd, abxcd, ab123cd, and so on app.get("/ab*cd", (req, res) => {
   res.send("Got a GET request for /ab*cd");
});
```