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# PRANVI COMPUTECH

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### Available Techonologies:

C, C++, Java, HTML, CSS, Angular, NodeJS, MEAN Stack, Salesforce

### Assistance for:

Algorithms, Data Structures, Computer Graphics, Publishing Journal Papers Etc.



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# Node JS Training Program Proposal

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This program includes NodeJS, ExpressJS [15H]\* and will follow through direct implementation of concepts from 'Contents' with interview related theoretical points.

At the end of program participants will get notes and practical examples in soft form covered during the same.

Target audience: - anyone literate with OOP.

Prerequisites: - basics of HTML, Javascript.

## Contents

1. NodeJS and ExpressJS
  - a. Introduction of NodeJS
  - b. Modules in NodeJS
    - i. Native modules
    - ii. Third Party modules
  - c. HTTP Server
  - d. HTTP Get parameters
  - e. HTTP Post parameters
  - f. Express Module
  - g. Express Get parameters
  - h. Express Post parameters
  - i. Express URL parameters
  - j. Creating Modules in Express
  - k. Imports and Exports in Express
  - l. Middleware in express
  - m. File Operations
    - i. Synchronous and Asynchronous File Operations
    - ii. Opening a file
    - iii. File Opening Modes
    - iv. Reading a file

- v. Writing data to files
    - vi. Appending data to file
    - vii. Deleting a file
  - n. Interaction with MySql database
    - i. MySQL CRUD operations
  - o. Token Based Authentication System
  - p. Connection Pooling
  - q. Uploading Images to Server
  - r. Interaction with MongoDB
    - i. MongoDB CRUD operations
2. Add on
- a. MongoDB
    - i. Introduction
    - ii. Installation
    - iii. MongoDB databases
    - iv. MongoDB Collections
    - v. MongoDB Documents
    - vi. Inserting Documents
    - vii. Fetching Documents
    - viii. Updating Documents
  - b. MySql

*\* Duration of program in approximate hours.*