## Node.js

npm install express mongoose jsonwebtoken bcrypt cors dotenv body-parser multer stripe validator nodemon

**1. express**

* A **web framework** for Node.js.
* Makes it easy to handle routes (URLs), HTTP requests/responses.
* Example:

js

CopyEdit

const express = require('express');

const app = express();

app.get('/', (req, res) => res.send('Hello World!'));

**2. mongoose**

* A **MongoDB object modeling library** for Node.js.
* Lets you work with MongoDB using JavaScript objects, schemas, and models.
* Example:

js

CopyEdit

const mongoose = require('mongoose');

mongoose.connect('mongodb://localhost/mydb');

**3. jsonwebtoken**

* Lets you **create and verify JWT tokens** for authentication.
* Example: login → generate token → verify token for secure APIs.

**4. bcrypt**

* A **password hashing** library.
* Encrypts passwords before saving them to the database (so no plain text passwords).

**5. cors**

* **Cross-Origin Resource Sharing** middleware.
* Allows your backend to accept requests from another domain (e.g., your frontend at localhost:3000 calling backend at localhost:5000).

**6. dotenv**

* Lets you store environment variables in a .env file.
* Example: database URLs, API keys, secret tokens.

**7. body-parser**

* Middleware to **parse incoming request bodies** (JSON, URL-encoded).
* In modern Express, express.json() and express.urlencoded() replace most body-parser usage, but it’s still common.

**8. multer**

* Handles **file uploads** (e.g., images, PDFs) in Node.js.
* Example: uploading a profile picture.

**9. stripe**

* Stripe payment gateway library.
* Lets you process online payments, subscriptions, etc.

**10. validator**

* Library to **validate and sanitize strings** (e.g., check if an email is valid).

**11. nodemon**

* Development tool that **auto-restarts** your Node.js server when you save changes.

A screenshot of a computer

AI-generated content may be incorrect.A black screen with white text

AI-generated content may be incorrect.