

# 30 Days Express.js Full Roadmap — beginner → advanced

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## ☑ WEEK 1: Node.js + Express Basics (Foundation)

### 📅 Day 1 – Node.js Basics

- ☐ What is Node.js
- ☐ Why Node.js
- ☐ Node vs Browser JS
- ☐ `require()` & `module.exports`
- ☐ Simple HTTP server

🧠 Mini Task:

```
http.createServer((req, res) => {  
  res.end("Hello Node");  
});
```

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### 📅 Day 2 – NPM & Project Setup

- ☐ npm init
- ☐ package.json samajhna
- ☐ node\_modules kya hai
- ☐ nodemon install

🧠 Task:

- nodemon se server run karo

### 📅 Day 3 – Express Introduction

- ☐ express install
- ☐ `app.get()`
- ☐ `app.listen()`
- ☐ `res.send()`

🧠 Task:

- `/`, `/about`, `/contact` routes banao

### 📅 Day 4 – Routing Deep Dive

- ☐ GET vs POST
- ☐ Route params

- ☐ Query params

🗨 Example:

```
app.get("/user/:id", ...)
```

## 📅 Day 5 – Middleware Basics

- ☐ Middleware kya hota hai
- ☐ next()
- ☐ Custom middleware

🗨 Task:

- Logger middleware banao

## 📅 Day 6 – Built-in Middleware

- ☐ express.json()
- ☐ express.urlencoded()

🗨 Task:

- POST request se data receive karo

## 📅 Day 7 – Mini Project

### 🔗 Basic API

- GET users
- POST user
- Middleware use karo

## ☑ WEEK 2: CRUD + Database (MongoDB)

## 📅 Day 8 – MongoDB Intro

- ☐ MongoDB kya hai
- ☐ Collection / Document
- ☐ MongoDB Compass

## 📅 Day 9 – Mongoose Setup

- ☐ mongoose install
- ☐ connect to DB

## 📅 Day 10 – Schema & Model

- ☐ Schema banana

- ☐ Model banana

#### Day 11 – CREATE Operation

- ☐ POST data
- ☐ Save to DB

#### Day 12 – READ Operation

- ☐ find()
- ☐ findById()

#### Day 13 – UPDATE Operation

- ☐ findByIdAndUpdate()

#### Day 14 – DELETE Operation

- ☐ findByIdAndDelete()

### ☒ WEEK 3: Advanced Backend Concepts

#### Day 15 – Error Handling

- ☐ try-catch
- ☐ custom error middleware

#### Day 16 – Environment Variables

- ☐ dotenv
- ☐ process.env

#### Day 17 – Authentication (Basics)

- ☐ bcrypt
- ☐ password hashing

#### Day 18 – JWT Authentication

- ☐ jwt sign
- ☐ jwt verify
- ☐ protected routes

#### Day 19 – Role Based Access

- ☐ Admin / User logic

#### Day 20 – File Upload

- ☐ multer
- ☐ upload image

## ☒ WEEK 4: Real Projects & Optimization

### Day 21 – Pagination & Filtering

- ☐ page & limit
- ☐ search

### Day 22 – API Security

- ☐ cors
- ☐ helmet
- ☐ rate limit

### Day 23 – API Testing

- ☐ Postman
- ☐ Thunder Client


### Day 24 – MVC Architecture

- ☐ controllers
- ☐ routes
- ☐ models

### Day 25 – Connect React + Express

- ☐ fetch from frontend
- ☐ CORS setup

### Day 26 – Full CRUD Project

 Blog / Todo / Product App

### Day 27 – Deploy Backend

- ☐ Render / Railway / Cyclic

### Day 28 – Debug & Improve

- ☐ logs
- ☐ performance

### Day 29 – Final Project Polish

- ☐ clean code
- ☐ folder structure

### Day 30 – Revision + Confidence

- ☐ Revise everything

- ☐ Build from scratch

## FINAL GOAL (After 30 Days)

- ☒ Express Developer
- ☒ CRUD + Auth
- ☒ Real API
- ☒ Ready for MERN

## BONUS PROJECT IDEAS

- Todo App
- Blog API
- E-commerce backend
- Admin dashboard
- Chat backend

## FINAL LINE

**30 din consistently kar liya na, tu Express developer ban chuka hoga.**