

# 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.**