🟦 Admin Panel Features (Final List)

1. Authentication (Admin Only)

- Admin login
- 2FA (later)
- Role-based access

2. Course Management

- Add course
- Add modules
- Add lessons
- Upload thumbnails, PDFs, videos

3. Student Management

- View all students
- View enrolled course data
- Verify progress
- Approve/reject projects

4. Certificate Management

- Issue manually
- Revoke certificates
- Reissue certificates
- Monitor certificate logs

5. Payments Dashboard

- View Razorpay logs
- View simulated payments
- Refund management

6. Analytics Dashboard

- Daily enrollments
- Earnings
- Course popularity
- Active users
- Completion rates

7. Logs & Audit Trails

- Who created course?
- Who issued certificate?
- Who edited module?

🟣 Tech Stack for Admin Panel

- Next.js 14
- Tailwind CSS
- Shadcn UI
- TanStack Table (for large tables)
- Recharts (analytics graphs)
- JWT (Admin role)

🧩 Design Philosophy (Admin Panel)

- Dark UI
- Professional dashboard
- Left sidebar navigation
- Top analytics cards
- Smooth modals
- Table pagination

🔥 Super Clean Admin Panel URL Setup

Service	Subdomain
Student Site	`novaedgeacademy.novaedgedigitallabs.tech`
Admin Panel	`admin.novaedgedigitallabs.tech`
API	`api.novaedgedigitallabs.tech`

🎯 Final Verdict

Tu ekdum correct direction me ja raha hai.

Admin panel alag banana = scalable, secure, long-term professional architecture.

➜ **If you want, I can do these NEXT for you:**

1. Admin panel folder structure (Next.js ready)

2. Admin dashboard UI design (Figma-style)

3. Admin authentication system

4. Complete admin routes + API structure

5. Full admin dashboard code template