

Backend Day 1

server kya hai ?

- simple answer ye ki ye ek software hai j ki server kr raha hai
- "Server" ek term hai jo computing mein **ek aise system ko refer karta hai jo doosre computers (clients) ko services provide karta hai**. Yeh services ho sakti hain: website hosting, file storage, database management, authentication, etc.

Types of Servers:

1. **Web Server** – Websites ko serve karta hai (e.g., Apache, Nginx).
2. **Database Server** – Databases ko manage karta hai (e.g., MySQL, MongoDB).
3. **File Server** – Files ko store aur share karta hai.
4. **Mail Server** – Emails send/receive karta hai.
5. **Application Server** – Backend logic handle karta hai (e.g., Node.js server, Django server).

A javascript based backend

- data
- file
- third party API's

A javascript Runtime

- node
- deno
- ban

File Structure

src

- **Main source folder** – saara backend ka code yahin hota hai.
- Usually sab kuch src/ ke andar hota hai:

 **app.js**

- **Express app configuration** yahan hota hai.

index.js

- App ko start karne wali file. Server yahin se start hota hai.

 - db → database connection logic yaha likhte hai
 - models → database schemas ya models yaha hote hai
 - controllers → business logic ya actual kam karne wale functions
 - routes → API endpoints(routes) yaha define hote hai
 - middleware → **Middlewares** jaise auth, error handling, logging etc.
 - utils → **Helper functions** jo baar-baar use hote hain. (email validation, token generation, hashing etc.)
 - more
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