

mandatory imp express / app methods in express js from scratch.

Here's a **from-scratch, exam + practical oriented guide** to the **mandatory & most important Express.js app methods** — the ones you'll use in almost every Node/Express project.

I'll keep it **simple, structured, and beginner-friendly**.

0) First — What is `app` in Express?

js

```
const express = require("express");
const app = express();
```

 Copy code

 `app` is your **Express application instance**.

It controls:

- Routing
- Middleware
- Server settings
- Listening to requests

1) `app.listen()` — Start the Server

Purpose

Starts your server and listens for requests.

Syntax

js

```
app.listen(port, callback);
```

[Copy code](#)

✓ Example

js

```
app.listen(3000, () => {  
  console.log("Server running on port 3000");  
});
```

[Copy code](#)

👉 Without this, your server won't run.

✓ 2) `app.get()` — Handle GET Requests

📌 Purpose

Used to fetch data.

✓ Syntax

js

```
app.get(path, callback);
```

[Copy code](#)

✓ Example

js

```
app.get("/", (req, res) => {  
  res.send("Hello World");  
});
```

[Copy code](#)

👉 Most common route method.

✓ 3) `app.post()` — Handle POST Requests

📌 Purpose

Used to send data to server (forms, APIs).

✓ Example

```
js

app.post("/login", (req, res) => {
  res.send("Login Successful");
});
```

 Copy code

✓ 4) `app.put()` — Update Data

Purpose

Used to update existing data.

```
js

app.put("/user", (req, res) => {
  res.send("User updated");
});
```

 Copy code

✓ 5) `app.delete()` — Delete Data

Purpose

Used to delete resources.

```
js


app.delete("/user", (req, res) => {
  res.send("User deleted");
});
```

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✓ 6) `app.use()` — Middleware (VERY IMPORTANT)

Purpose

Runs middleware functions.

 Middleware = function that runs before final response.

✓ Example (Logger)

```
js

app.use((req, res, next) => {
  console.log("Request received");
  next();
});
```

 Copy code

✓ Example (JSON parser)

```
js

app.use(express.json());
```

 Copy code

 Used in every real project.

✓ 7) `app.set()` — Set App Settings

Purpose

Configure settings.

```
js

app.set("view engine", "ejs");
```

 Copy code

 Common settings:

- view engine
 - trust proxy
 - port
-

✓ 8) `app.use(express.static())` — Serve Static Files

📌 Purpose

Serve CSS, JS, images.

js

```
app.use(express.static("public"));
```

📄 Copy code

👉 Now `/public/style.css` can be accessed.

✓ 9) `app.route()` — Chain Routes

📌 Purpose

Group routes for same path.

js

```
app.route("/user")
  .get((req, res) => res.send("Get User"))
  .post((req, res) => res.send("Add User"));
```

📄 Copy code

👉 Cleaner code.

✓ 10) `app.all()` — Handle All HTTP Methods

📌 Purpose

Runs for GET, POST, PUT, DELETE etc.

js

```
app.all("/any", (req, res) => {
  res.send("Works for all methods");
});
```

📄 Copy code

✓ 11) `app.param()` — Route Parameters Middleware

📌 Purpose

Runs when param exists.

```
js

app.param("id", (req, res, next, id) => {
  console.log("ID:", id);
  next();
});

app.get("/user/:id", (req, res) => {
  res.send("User ID received");
});
```

📄 Copy code

👉 Useful for DB lookups.

🧠 BONUS (IMPORTANT in real apps)

★ `res.send()`

Send response.

```
js

res.send("Hello");
```

📄 Copy code

★ `res.json()`

Send JSON.

```
js

res.json({ name: "Pujan" });
```

📄 Copy code



`res.status()`

Set HTTP status.

js

```
res.status(404).send("Not Found");
```

 Copy code



Minimal Express App (From Scratch)

js

```
const express = require("express");
const app = express();

app.use(express.json());

app.get("/", (req, res) => {
  res.send("Home Page");
});

app.post("/data", (req, res) => {
  res.json({ received: req.body });
});

app.listen(3000, () => {
  console.log("Server running");
});
```

 Copy code



MUST-KNOW FOR EXAMS / INTERVIEWS

If someone asks **core Express methods**, say:

- ✓ `app.listen`
- ✓ `app.get`
- ✓ `app.post`
- ✓ `app.put`

- ✓ app.delete
- ✓ app.use
- ✓ app.set
- ✓ app.route
- ✓ app.all

👉 These cover 90% of usage.

≡ ChatGPT 5.2 ▾



- ✓ Express Router (modular routing)
- ✓ Folder structure for real projects
- ✓ 20 interview questions on Express
- ✓ Mini project to practice

Just tell me 👉

