

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.

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## 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.

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## 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.

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## 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

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## 4) app.put() — Update Data

### Purpose

Used to update existing data.

js

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

 Copy code

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## 5) app.delete() — Delete Data

### Purpose

Used to delete resources.

js

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

 Copy code

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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**.

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## ✓ 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.

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## 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.

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## 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

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## 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.

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## BONUS (IMPORTANT in real apps)

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### `res.send()`

Send response.

```
js

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

 Copy code

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### `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.

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## Common Express.js Methods

ChatGPT 5.2

↑ ...

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

Just tell me 👍

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