**Express.js json Middleware**

The express.json() middleware is a built-in middleware function in Express.js that is used to **parse incoming JSON request bodies**.

**1. Basic Usage**

Use express.json() before handling requests that contain JSON data.

const express = require('express');

const app = express();

// Middleware to parse JSON data

app.use(express.json());

app.post('/data', (req, res) => {

    res.json({ receivedData: req.body });

});

app.listen(3000, () => console.log('Server running on port 3000'));

* **Example Request:**

POST /data

Content-Type: application/json

{

"name": "John Doe",

"email": "john@example.com"

}

* **Parsed Output (req.body):**

{

"name": "John Doe",

"email": "john@example.com"

}

**2. Limiting Payload Size**

By default, Express allows requests **up to 100KB**. To prevent large payloads (DoS attacks), set a custom limit:

app.use(express.json({ limit: '10kb' })); // Limits JSON payload to 10KB

* **If the payload exceeds the limit, Express will return:**

413 Payload Too Large

**3. Handling Malformed JSON**

If a client sends **invalid JSON**, Express will throw an error. You can catch this using an error-handling middleware:

app.use(express.json());

app.use((err, req, res, next) => {

    if (err instanceof SyntaxError) {

        return res.status(400).json({ message: 'Invalid JSON format' });

    }

    next();

});

* **Example Request (Malformed JSON):**

POST /data

Content-Type: application/json

{

"name": "John Doe",

"email": "john@example.com" // Missing closing brace

* **Response:**

{

"message": "Invalid JSON format"

}

**4. Combining with express.urlencoded()**

If your app handles both **JSON and form data**, use:

app.use(express.json()); // For JSON requests

app.use(express.urlencoded({ extended: true })); // For URL-encoded form data

* This allows Express to handle:
* **JSON requests** (Content-Type: application/json)
* **Form submissions** (Content-Type: application/x-www-form-urlencoded)

**5. Summary**

| **Feature** | **Example** |
| --- | --- |
| Parse JSON data | app.use(express.json()) |
| Set payload size limit | app.use(express.json({ limit: '10kb' })) |
| Handle invalid JSON | Custom error-handling middleware |
| Support both JSON & forms | app.use(express.json()); app.use(express.urlencoded({ extended: true })); |

Would you like more examples? 🚀