

CRUD with File System Create, Read, Update, Delete Files

Node JS Tutorial in Hindi #21 CRUD with File System | Create, Read, Upda...



Learn how to perform **Create, Read, Update, and Delete** operations using Node.js's built-in fs module. We'll also handle terminal inputs to do these operations dynamically.

Basic File Operations

```
const fs = require("fs");
```

Create New Files

```
fs.writeFileSync("files/apple.txt", "This is fruit");  
fs.writeFileSync("files/banana.txt", "This is fruit");
```

`writeFileSync()` creates files. If file already exists, it will overwrite.

Delete a File

```
fs.unlinkSync("files/banana.txt");
```

`unlinkSync()` removes a file.

Read a File

```
const data = fs.readFileSync("files/apple.txt", "utf-8");  
console.log(data);
```

`readFileSync()` reads file content. "utf-8" ensures readable string output.

Update a File

```
fs.appendFileSync("files/apple.txt", " and this is good for health");
```

`appendFileSync()` adds new content to existing file.

CRUD Operations with Terminal Input

Now let's make this dynamic — use terminal commands like Write, Read, update, or delete.

```
const fs = require("fs");  
const operation = process.argv[2];
```

`process.argv[]` gives command-line input.

Create File from Terminal

```
node index.js Write fileName "your content"
```

```
if (operation === "Write") {  
  const name = process.argv[3];  
  const content = process.argv[4];  
  fs.writeFileSync(`files/${name}.txt`, content);  
  console.log("File Created");  
}
```

Read File from Terminal

```
node index.js Read fileName
```

```
else if (operation === "Read") {  
  const name = process.argv[3];  
  const data = fs.readFileSync(`files/${name}.txt`, "utf-8");  
  console.log(data);  
}
```

Update File from Terminal

```
node index.js update fileName "new content"
```

```
else if (operation === "update") {  
    const name = process.argv[3];  
    const content = process.argv[4];  
    fs.appendFileSync(`files/${name}.txt`, content);  
}
```

Delete File from Terminal

```
node index.js delete fileName
```

```
else if (operation === "delete") {  
    const name = process.argv[3];  
    fs.unlinkSync(`files/${name}.txt`);  
}
```

Fallback Case

```
else {  
    console.log("Operation not found");  
}
```

Example Test

```
node index.js Write hello "This is demo"  
node index.js Read hello  
node index.js update hello " updated!"  
node index.js delete hello
```

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