

Back-End Development

# express

# Exploring

**#8a** Lowdb & Express File Upload

**#1**

# **How to Connect Express to a Dummy Database**

# Lowdb

**Lowdb** is a small local JSON database powered by **Lodash**, supports **Node**, **Electron** and the browser  
(See [github.com/typicode/lowdb](https://github.com/typicode/lowdb)).

## ■ Installation

```
$ npm install lowdb --save
```

# Lowdb

## #1 Add Data

```
const low = require('lowdb')
const FileSync =
  require('lowdb/adapters/FileSync')

const adapter = new FileSync('db.json')
const db = low(adapter)

db.defaults({ data: [] })
  .write()

db.get('data')
  .push({ nama: 'Andi', usia: 24 })
  .write()
```

*\* Run this code, then it will  
create a db.json with Andi data*

# Lowdb

## #2 Data Counts

```
const low = require('lowdb')
const FileSync =
  require('lowdb/adapters/FileSync')

const adapter = new FileSync('db.json')
const db = low(adapter)

db.defaults({ data: [] })
  .write()

var jumlah = db.get('data')
  .size()
  .value()
console.log(jumlah)
```

# Lowdb

## #3 Get All Data

```
const low = require('lowdb')
const FileSync =
  require('lowdb/adapters/FileSync')

const adapter = new FileSync('db.json')
const db = low(adapter)

db.defaults({ data: [] })
  .write()

var all = db.get('data')
  .value()
console.log(all)
```

# Lowdb

## #4 Get 5 First Data

```
const low = require('lowdb')
const FileSync =
  require('lowdb/adapters/FileSync')

const adapter = new FileSync('db.json')
const db = low(adapter)

db.defaults({ data: [] })
  .write()

var lima = db.get('data')
  .take(5)
  .value()
console.log(lima)
```

# Lowdb

## #5 Get Specific Data

```
const low = require('lowdb')
const FileSync =
  require('lowdb/adapters/FileSync')

const adapter = new FileSync('db.json')
const db = low(adapter)

db.defaults({ data: [] })
  .write()

var nama0 = db.get('data[0].nama')
  .value()
console.log(nama0)
```



# Lowdb

## #6 Remove Data

```
const low = require('lowdb')
const FileSync =
  require('lowdb/adapters/FileSync')

const adapter = new FileSync('db.json')
const db = low(adapter)

db.defaults({ data: [] })
  .write()

db.get('data')
  .remove({ nama: 'Budi' })
  .write()
```

# Lowdb

## #7 GET

### Express

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

const low = require('lowdb');
const FileSync = require('lowdb/adapters/FileSync');
const adapter = new FileSync('db.json');
const db = low(adapter);

db.defaults({ data: [] }).write();

app.get('/', (req, res) => {
  db.get('data').push({ nama: 'Budi', usia: 23 }).write();
  res.send('Halo Dunia!');
});

app.listen(3000, () => {
  console.log('Server @port 3000!');
});
```

# Lowdb

## #8 POST & GET

### Express

#### Part 1

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

const bodyParser = require('body-parser');

const low = require('lowdb')
const FileSync = require('lowdb/adapters/FileSync')
const adapter = new FileSync('lowdb_tes.json')
const db = low(adapter)

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

# Lowdb

## #8 POST & GET

### Express

### Part 2

```
app.get('/', (req, res) => {  
  db.defaults({ data: [] }).write()  
  var y = db.get('data').value();  
  res.send(y);  
})
```

```
app.post('/', (req, res) => {  
  console.log(req.body);  
  db.get('data').push({  
    nama: req.body.nama,  
    usia: req.body.usia}).write()  
  res.send({  
    status: 'POST berhasil',  
    nama: req.body.nama,  
    usia: req.body.usia  
  });  
})
```

```
app.listen(3210, function() {  
  console.log('Run @port 3210!');  
});
```

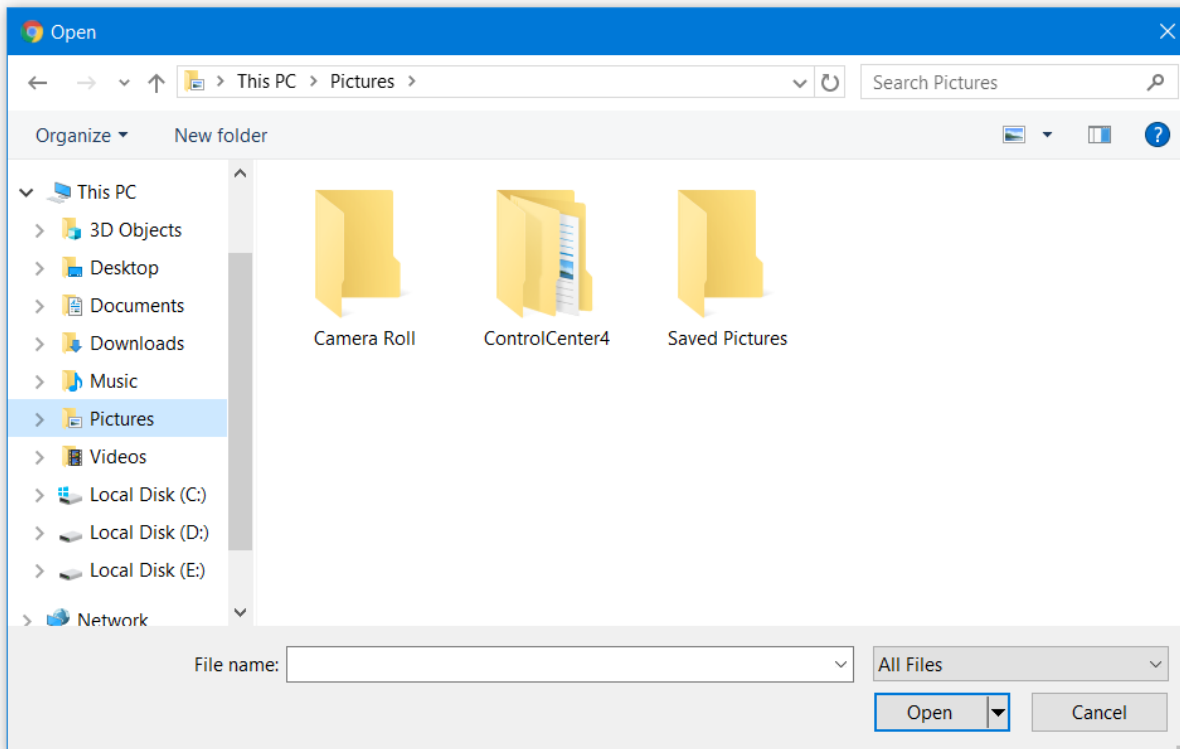
**#2**

# **How to Create a Simple File Upload System**

# Tes Upload File

Choose File jquery-3.3.1.min.js

UPLOAD



# express

## express-fileupload

Simple Express middleware for uploading files. (See [npmjs.com/package/express-fileupload](https://npmjs.com/package/express-fileupload)).

- **Installation**

- \$ npm install express-fileupload --save**

- **To use this package, let's create:**
  - a folder*** (to store our uploaded files),
  - a HTML file*** (front-end), and
  - a JS file*** (back-end)!

```
<h1>Tes Upload File</h1>
```

```
<form method="post"  
  enctype="multipart/form-data"  
  action="/">
```

```
  <input type="file" name="filename">
```

```
  <input type="submit" value="UPLOAD">
```

```
</form>
```



# file-upload.js

## #part 1

```
var express = require('express');  
  
var app = express();  
  
var upload = require('express-fileupload');  
  
app.use(upload())  
  
app.get("/", function(req, res){  
    res.sendFile(__dirname+"/file-upload.html")  
})
```

# file-upload.js

## #part 2

```
app.post("/", function(req,res){
  if(req.files){
    console.log(req.files)
    var file = req.files.filename;
    var filename = file.name;
    file.mv("./file-upload/"+filename, function(err){
      if(err){
        console.log(err);
        res.send('<h1>Upload gagal!</h1>');
      }
      else{
        res.send('<h1>Upload sukses!</h1>');
      }
    })
  }
})

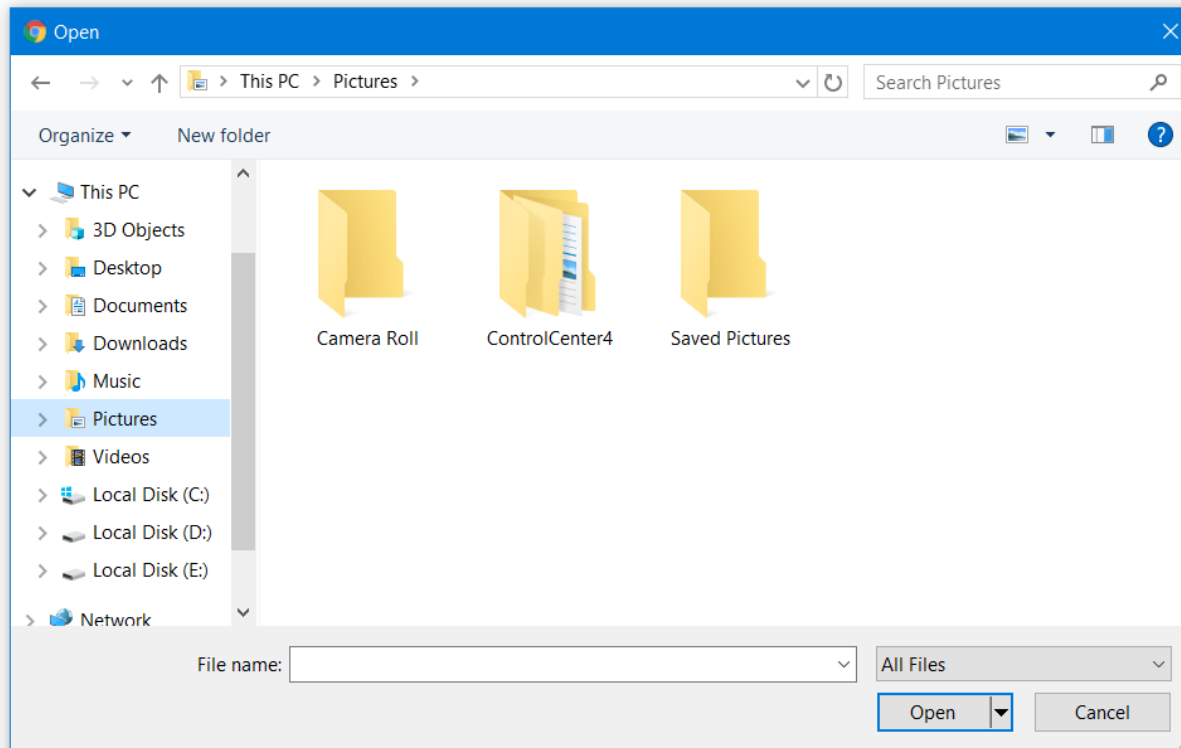
app.listen(3210, function(){
  console.log('Run @port 3210!');
});
```

# Run file-upload.js & open localhost:3210!

## Tes Upload File

Choose File `jquery-3.3.1.min.js`

UPLOAD



Back-End Development

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