



# Express File Upload

#Node.js Express Notes

# | Express FileUpload



# File Upload

- FileUpload is used to Upload Any File on Server Like Images,PDF etc.



# Install NPM

- Create New Express Generator Project
- Install Express Fileupload Package
- <https://www.npmjs.com/package/express-fileupload>
- `npm install --save express-fileupload`



# Steps

- Create New Project
- Install Express-Fileupload
  - `npm install --save express-fileupload`
- Include Package in App.js
  - `const fileUpload = require('express-fileupload');`
- Use Fileupload in Express app.js
  - `app.use(fileUpload());`



# Get Information of File Using

- To Get All File Data use req.files.
  - `console.log(req.files);`
- Your input's name field is foo: `<input name="foo" type="file" />`
- To Print Specific File Data Use req.files.filename
  - `console.log(req.files.foo);`



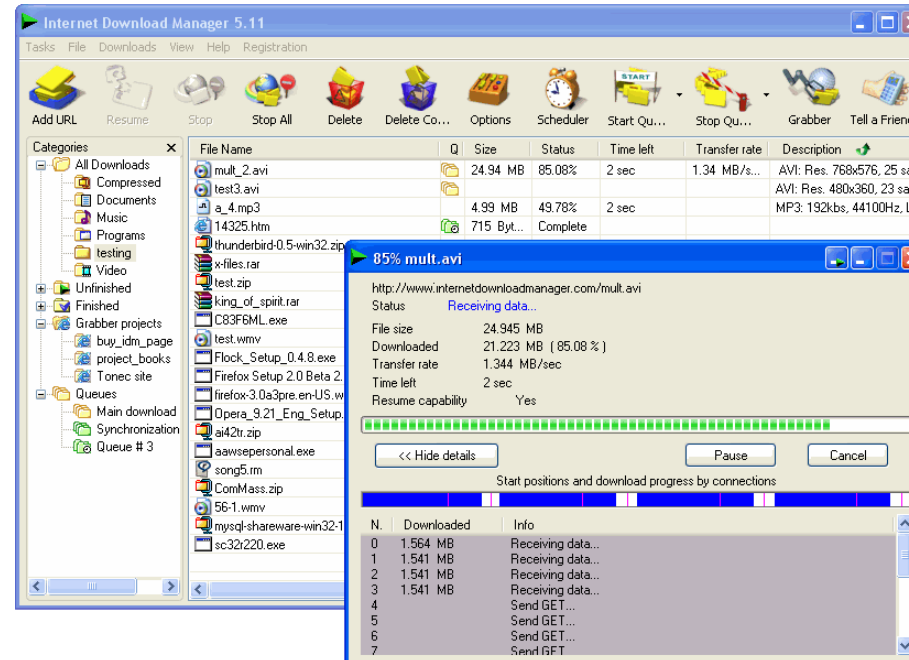
# File Properties

- **req.files.foo.name** : "car.jpg"
- **req.files.foo.mv** : A function to move the file elsewhere on your server
- **req.files.foo.mimetype** : The mimetype of your file
- **req.files.foo.data** : A buffer representation of your file, returns empty buffer in case useTempFiles option was set to true.
- **req.files.foo.tempFilePath** : A path to the temporary file in case useTempFiles option was set to true.
- **req.files.foo.truncated** : A boolean that represents if the file is over the size limit
- **req.files.foo.size** : Uploaded size in bytes
- **req.files.foo.md5** : MD5 checksum of the uploaded file



# Form

- Form method must be post with `enctype="multipart/form-data"`





# Create New form.ejs

```
<html>
```

```
<body>
```

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

```
File :<input type="file" name="file123">
```

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

```
</form>
```

```
</body>
```

```
</html>
```



# Load Form

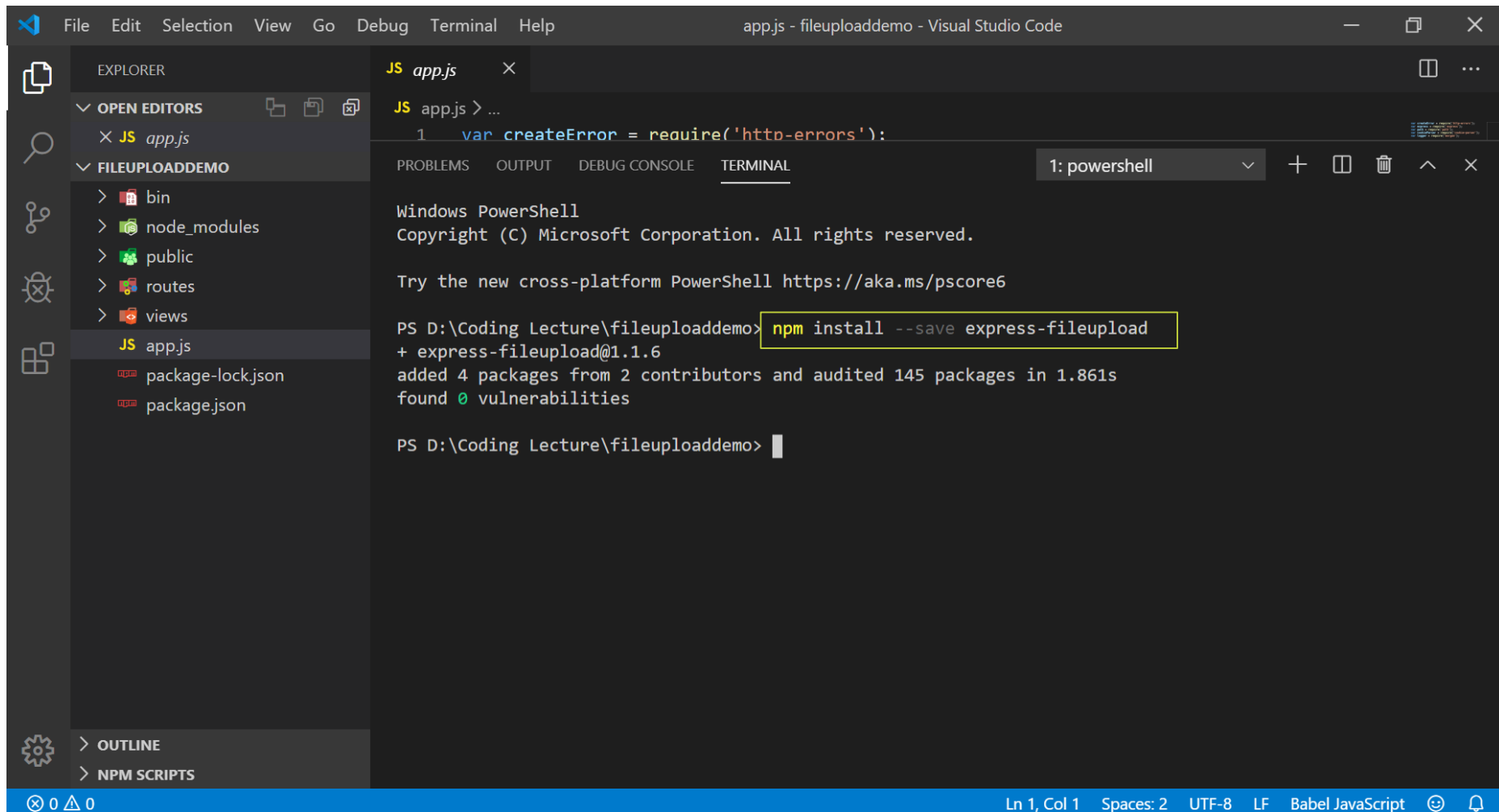

```
router.get('/', function(req, res, next) {  
  //Form Name  
  res.render('form', { title: 'Express' });  
});
```



# File Upload Code

```
router.post('/formprocess', function(req, res, next) {  
    //File Upload Code  
    console.log(req.files.file123); //Print all File Information  
    var myfile = req.files.file123; //File Object  
    var myfilename = req.files.file123.name; //Get File Name  
    //File Upload Code  
    myfile.mv('public/'+myfilename, function(err) {  
        if (err)  
            return res.status(500).send(err);  
        //res.send('File uploaded!');  
    });  
});
```





```
File Edit Selection View Go Debug Terminal Help app.js - fileuploaddemo - Visual Studio Code
```

EXPLORER

OPEN EDITORS

- JS app.js

FILEUPLOADDEMO

- bin
- node\_modules
- public
- routes
- views
- JS app.js
- package-lock.json
- package.json

OUTLINE

NPM SCRIPTS

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: powershell

Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

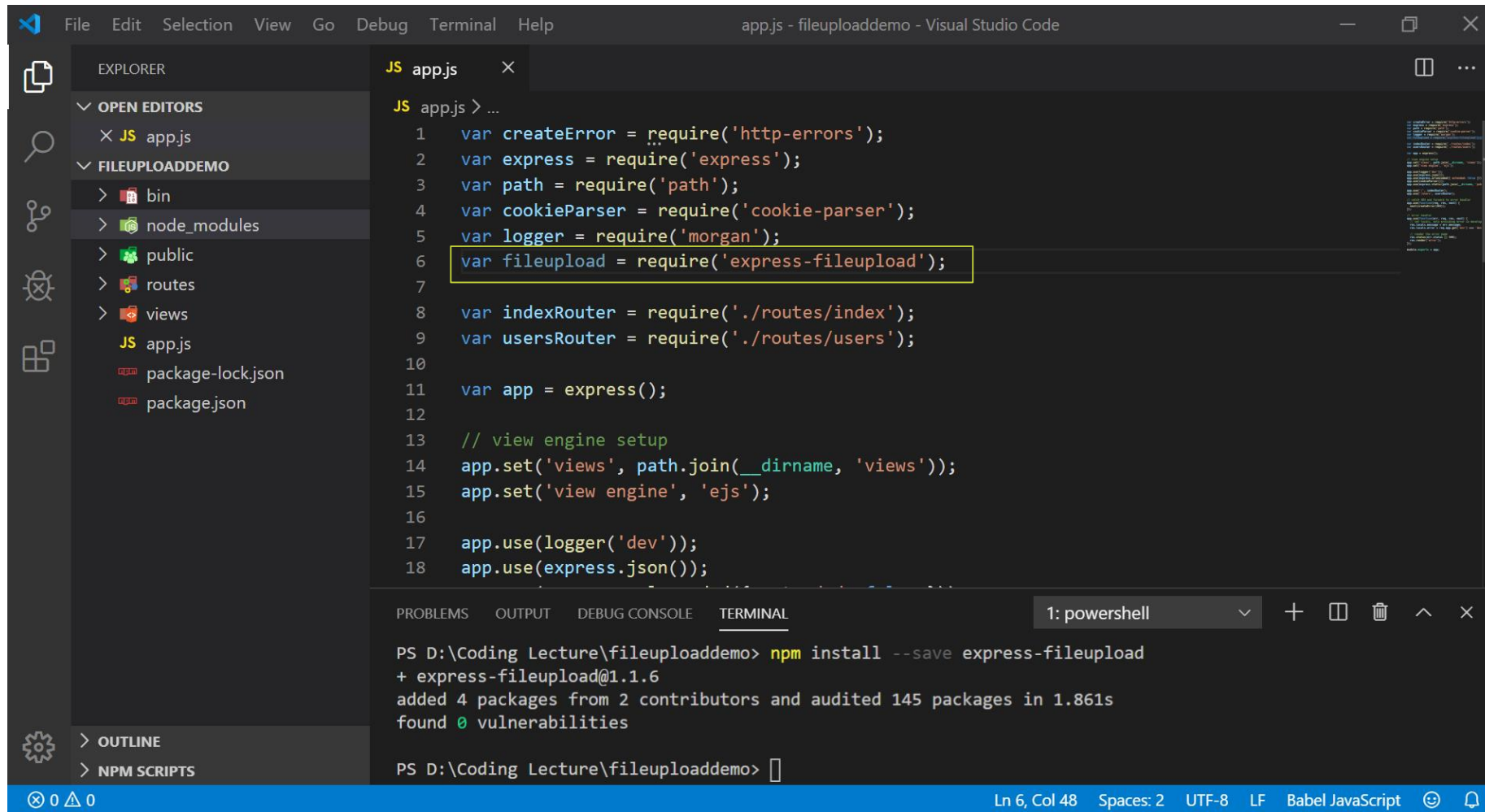
PS D:\Coding Lecture\fileuploaddemo> **npm install --save express-fileupload**  
+ express-fileupload@1.1.6  
added 4 packages from 2 contributors and audited 145 packages in 1.861s  
found 0 vulnerabilities

PS D:\Coding Lecture\fileuploaddemo>

Ln 1, Col 1 Spaces: 2 UTF-8 LF Babel JavaScript



`const fileUpload = require('express-fileupload');`



```
File Edit Selection View Go Debug Terminal Help
app.js - fileuploaddemo - Visual Studio Code

EXPLORER
OPEN EDITORS
  X JS app.js
FILEUPLOADDemo
  > bin
  > node_modules
  > public
  > routes
  > views
  JS app.js
  package-lock.json
  package.json

JS app.js
1  var createError = require('http-errors');
2  var express = require('express');
3  var path = require('path');
4  var cookieParser = require('cookie-parser');
5  var logger = require('morgan');
6  var fileupload = require('express-fileupload');
7
8  var indexRouter = require('./routes/index');
9  var usersRouter = require('./routes/users');
10
11 var app = express();
12
13 // view engine setup
14 app.set('views', path.join(__dirname, 'views'));
15 app.set('view engine', 'ejs');
16
17 app.use(logger('dev'));
18 app.use(express.json());
```

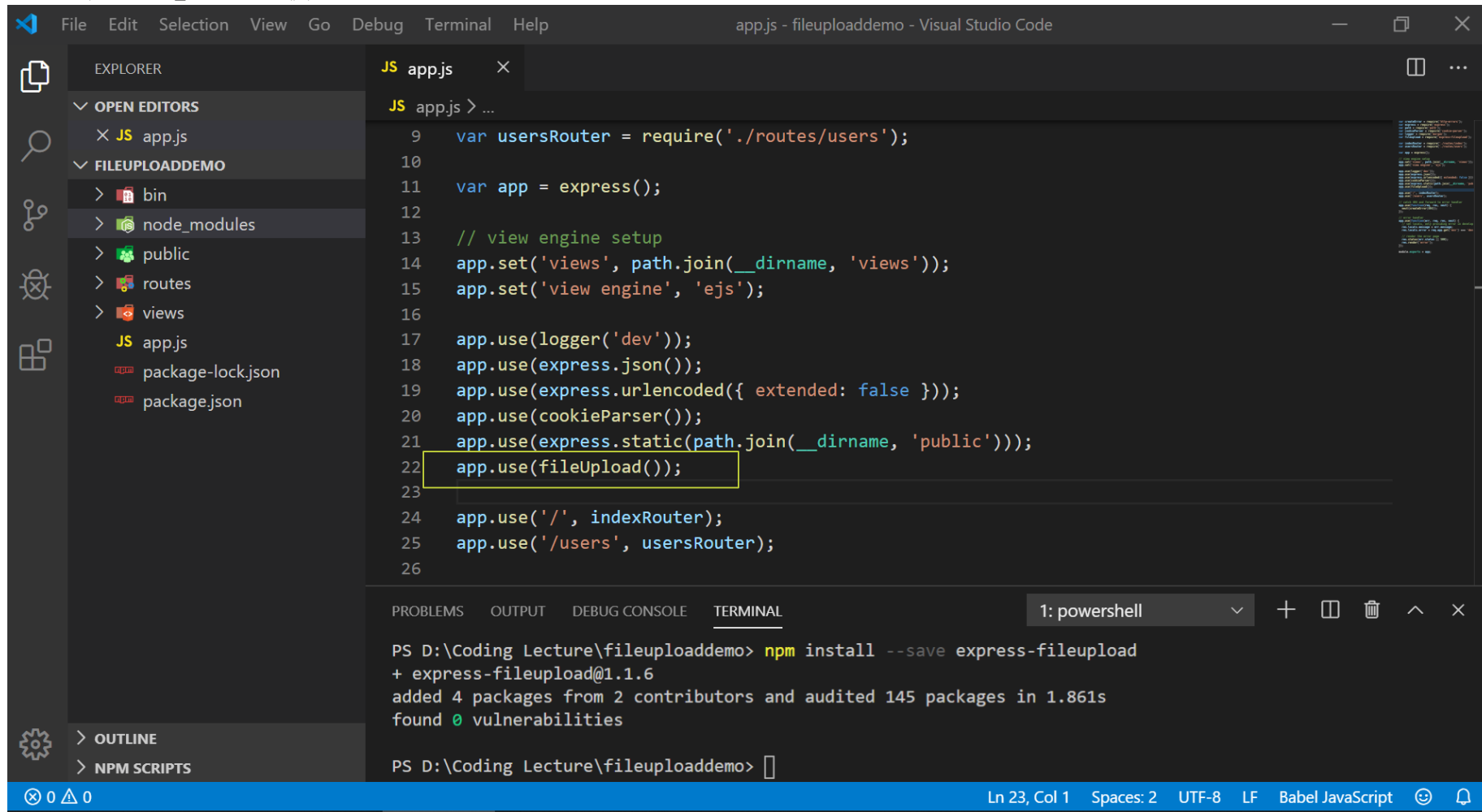
1: powershell

```
PS D:\Coding Lecture\fileuploaddemo> npm install --save express-fileupload
+ express-fileupload@1.1.6
added 4 packages from 2 contributors and audited 145 packages in 1.861s
found 0 vulnerabilities

PS D:\Coding Lecture\fileuploaddemo>
```



app.use(fileUpload());



```
File Edit Selection View Go Debug Terminal Help
app.js - fileuploaddemo - Visual Studio Code

EXPLORER
OPEN EDITORS
  X JS app.js
FILEUPLOADEDDEMO
  > bin
  > node_modules
  > public
  > routes
  > views
  JS app.js
  package-lock.json
  package.json

JS app.js
9  var usersRouter = require('./routes/users');
10
11 var app = express();
12
13 // view engine setup
14 app.set('views', path.join(__dirname, 'views'));
15 app.set('view engine', 'ejs');
16
17 app.use(logger('dev'));
18 app.use(express.json());
19 app.use(express.urlencoded({ extended: false }));
20 app.use(cookieParser());
21 app.use(express.static(path.join(__dirname, 'public')));
22 app.use(fileUpload());
23
24 app.use('/', indexRouter);
25 app.use('/users', usersRouter);
26

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
PS D:\Coding Lecture\fileuploaddemo> npm install --save express-fileupload
+ express-fileupload@1.1.6
added 4 packages from 2 contributors and audited 145 packages in 1.861s
found 0 vulnerabilities

PS D:\Coding Lecture\fileuploaddemo>
```



form.ejs - fileuploaddemo - Visual Studio Code

EXPLORER

OPEN EDITORS

- form.ejs views

FILEUPLOADDEMO

- bin
- node\_modules
- public
- routes
- views
  - error.ejs
  - form.ejs
  - index.ejs
- JS app.js
- package-lock.json
- package.json

form.ejs

```
1 <html>
2
3 <body>
4   <form method="post" enctype="multipart/form-data">
5     File :<input type="file" name="file123">
6     <input type="submit">
7   </form>
8 </body>
9 </html>
```

view: views > form.ejs > html > body > form > input

TERMINAL

1: powershell

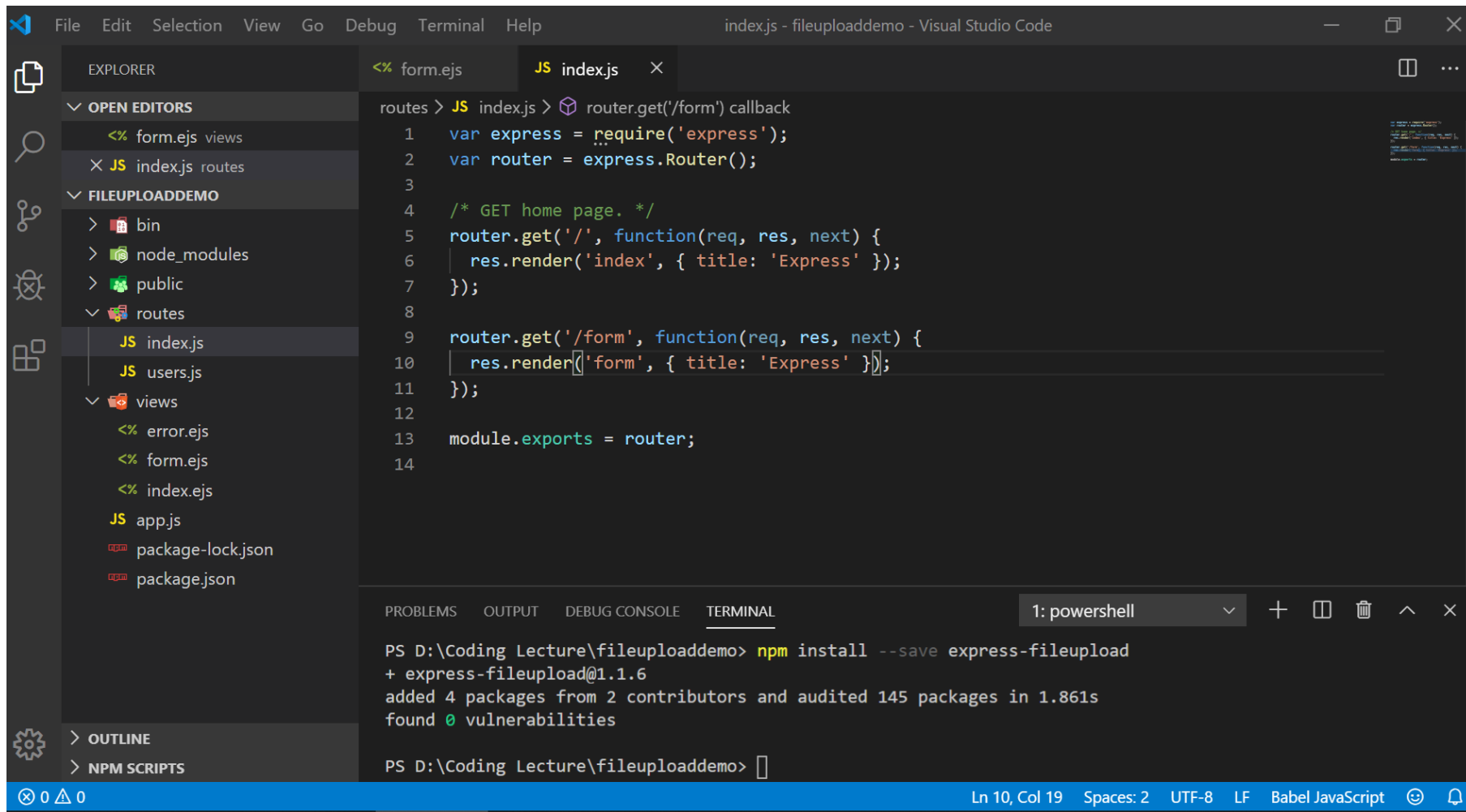
```
PS D:\Coding Lecture\fileuploaddemo> npm install --save express-fileupload
+ express-fileupload@1.1.6
added 4 packages from 2 contributors and audited 145 packages in 1.861s
found 0 vulnerabilities

PS D:\Coding Lecture\fileuploaddemo>
```

0 0

Ln 6, Col 30 Spaces: 4 UTF-8 CRLF HTML





index.js - fileuploaddemo - Visual Studio Code

EXPLORER

OPEN EDITORS

- form.ejs views
- JS index.js routes

FILEUPLOADDemo

- bin
- node\_modules
- public
- routes
  - JS index.js
  - JS users.js
- views
  - error.ejs
  - form.ejs
  - index.ejs
- app.js
- package-lock.json
- package.json

routes > JS index.js > router.get('/form') callback

```
1 var express = require('express');
2 var router = express.Router();
3
4 /* GET home page. */
5 router.get('/', function(req, res, next) {
6   res.render('index', { title: 'Express' });
7 });
8
9 router.get('/form', function(req, res, next) {
10   res.render('form', { title: 'Express' });
11 });
12
13 module.exports = router;
14
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: powershell

```
PS D:\Coding Lecture\fileuploaddemo> npm install --save express-fileupload
+ express-fileupload@1.1.6
added 4 packages from 2 contributors and audited 145 packages in 1.861s
found 0 vulnerabilities

PS D:\Coding Lecture\fileuploaddemo>
```

Ln 10, Col 19 Spaces: 2 UTF-8 LF Babel JavaScript



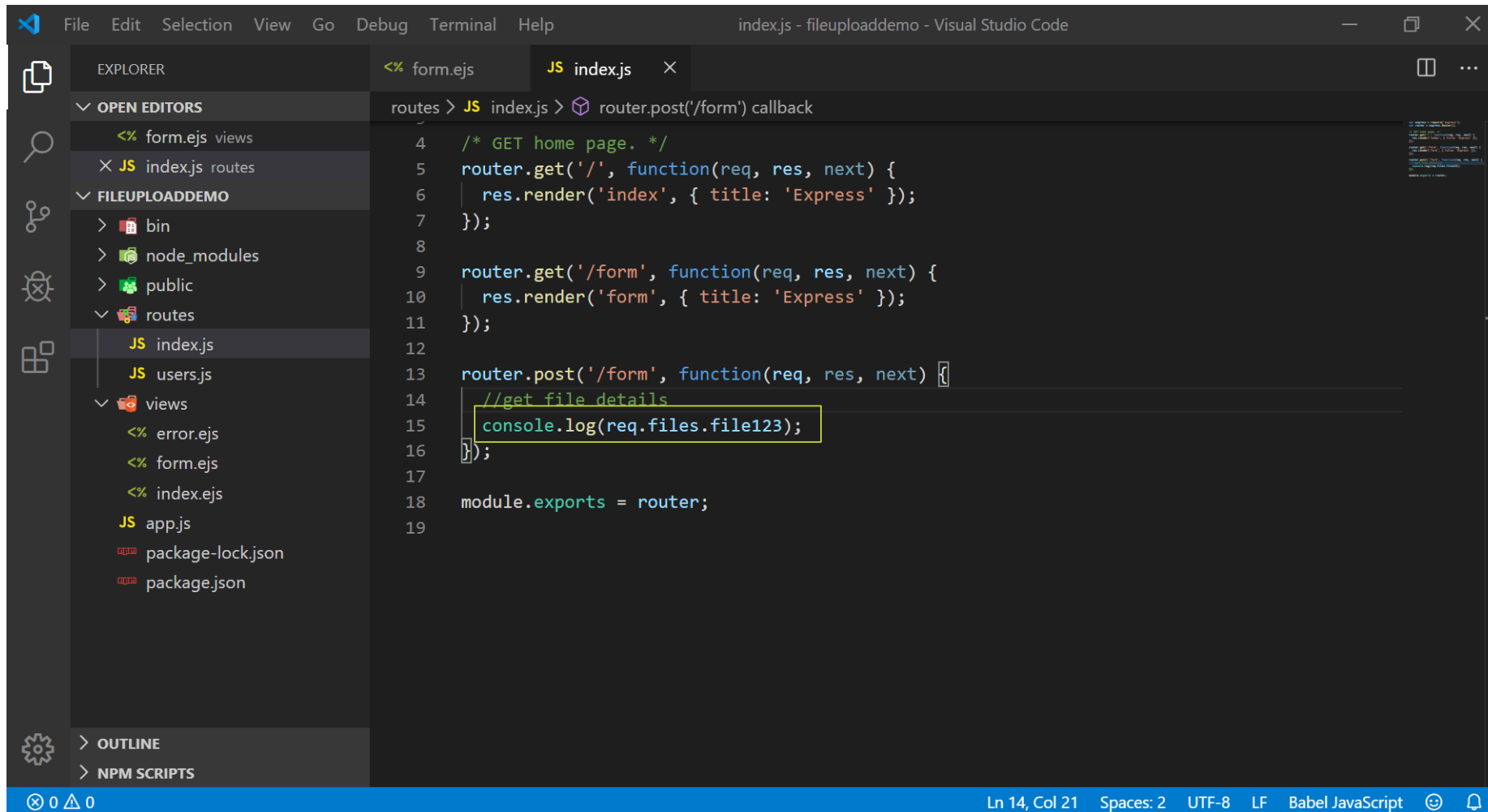





127.0.0.1:3000/form

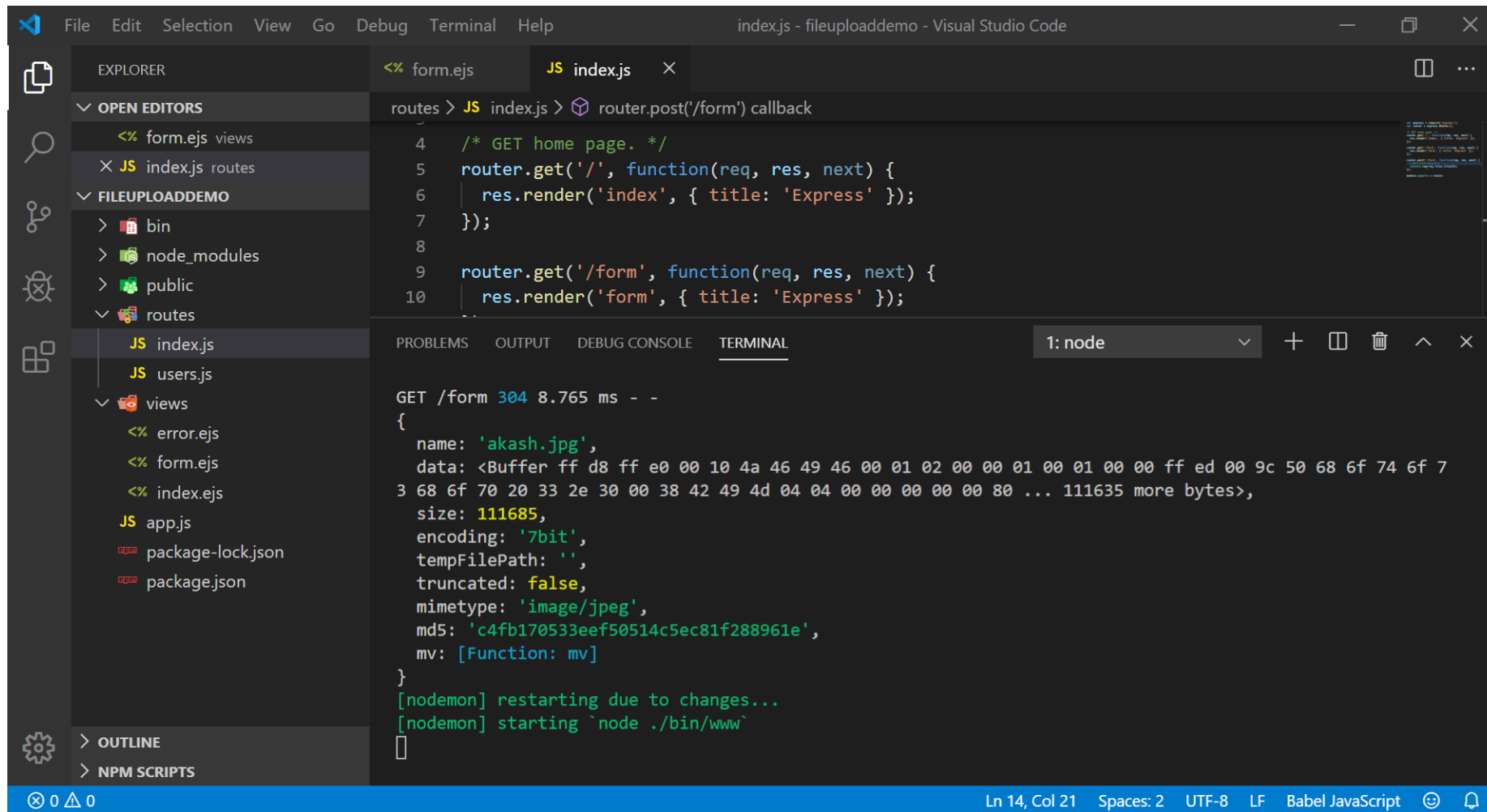
File :  No file chosen





```
4  /* GET home page. */
5  router.get('/', function(req, res, next) {
6    res.render('index', { title: 'Express' });
7  });
8
9  router.get('/form', function(req, res, next) {
10    res.render('form', { title: 'Express' });
11  });
12
13  router.post('/form', function(req, res, next) {
14    //get file details
15    console.log(req.files.file123);
16  });
17
18  module.exports = router;
19
```





```
File Edit Selection View Go Debug Terminal Help index.js - fileuploaddemo - Visual Studio Code

EXPLORER
OPEN EDITORS
  <% form.ejs views
  X JS index.js routes
FILEUPLOADDEMO
  > bin
  > node_modules
  > public
  > routes
    JS index.js
    JS users.js
  > views
    <% error.ejs
    <% form.ejs
    <% index.ejs
    JS app.js
    package-lock.json
    package.json
  > OUTLINE
  > NPM SCRIPTS

routes > JS index.js > router.post('/form') callback
4  /* GET home page. */
5  router.get('/', function(req, res, next) {
6    res.render('index', { title: 'Express' });
7  });
8
9  router.get('/form', function(req, res, next) {
10   res.render('form', { title: 'Express' });
11 });

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: node
GET /form 304 8.765 ms - -
{
  name: 'akash.jpg',
  data: <Buffer ff d8 ff e0 00 10 4a 46 49 46 00 01 02 00 00 01 00 01 00 00 ff ed 00 9c 50 68 6f 74 6f 7
3 68 6f 70 20 33 2e 30 00 38 42 49 4d 04 04 00 00 00 00 80 ... 111635 more bytes>,
  size: 111685,
  encoding: '7bit',
  tempFilePath: '',
  truncated: false,
  mimetype: 'image/jpeg',
  md5: 'c4fb170533eef50514c5ec81f288961e',
  mv: [Function: mv]
}
[nodemon] restarting due to changes...
[nodemon] starting `node ./bin/www`
```



```
index.js - fileuploaddemo - Visual Studio Code

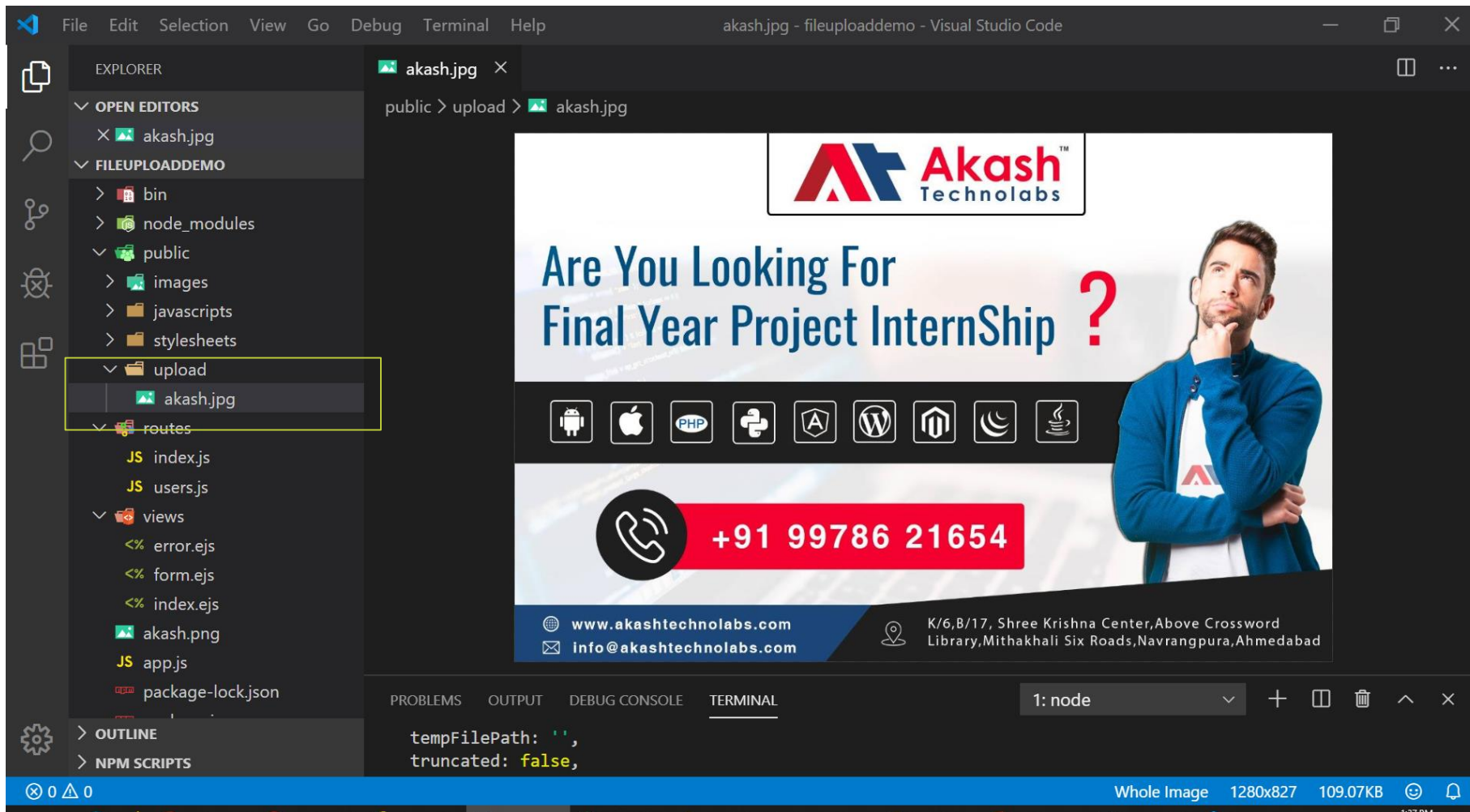
EXPLORER
├── OPEN EDITORS
│   └── JS index.js routes
├── FILEUPLOADDEMO
│   ├── bin
│   ├── node_modules
│   ├── public
│   │   ├── images
│   │   ├── javascripts
│   │   ├── stylesheets
│   │   └── upload
│   ├── routes
│   │   ├── JS index.js
│   │   └── JS users.js
│   └── views
│       ├── <% error.ejs
│       ├── <% form.ejs
│       ├── <% index.ejs
│       ├── akash.png
│       ├── JS app.js
│       ├── package-lock.json
│       └── package.json
└── OUTLINE
    └── NPM SCRIPTS

JS index.js
routes > JS index.js > router.get('/form') callback
6   res.render('index', { title: 'Express' });
7   });
8
9   router.get('/form', function(req, res, next) {
10    res.render('form', { title: 'Express' });
11  });
12
13  router.post('/form', function(req, res, next) {
14    //get file details
15    var fileobject = req.files.file123;
16    var filename = req.files.file123.name;
17    var filesize = req.files.file123.size;
18    var filemime = req.files.file123.mimetype;
19    //Upload method
20    fileobject.mv("public/upload/"+filename, function(err) {
21      if (err)
22        return res.status(500).send(err);
23      res.send('File uploaded!');
24    });
25  });
26  });
27

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: node
tempFilePath: '',
truncated: false,
```







# Task

- Allow only JPG,PNG and GIF Files only
- 2 MB File Size Restriction





# Wait....

- Solution is in Next Slide....





# Upload Specific File Content

```
if(req.files.file123.mimetype=="image/jpeg")
{
  myfile.mv('public/upload/'+myfilename, function(err) {
    if (err)
      return res.status(500).send(err);
    res.send('File uploaded!');
  });
}
else{
  res.send('File Sorry!');
}
```

<https://www.freeformatter.com/mime-types-list.html>

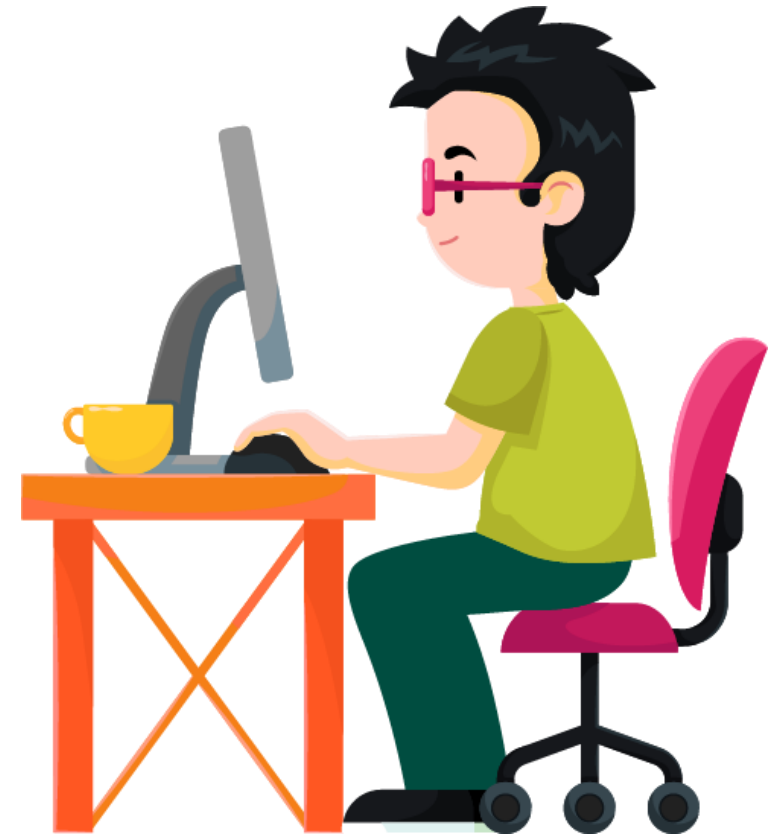


# File Upload 2MB Allowed

```
if(req.files.file123.size < 2 * 1024 * 1024)
{
  myfile.mv('public/upload/'+myfilename, function(err) {
    if (err)
      return res.status(500).send(err);
    res.send('File uploaded!');
  });
}
else{
  res.send('Max File size 2 MB Only');
}
```



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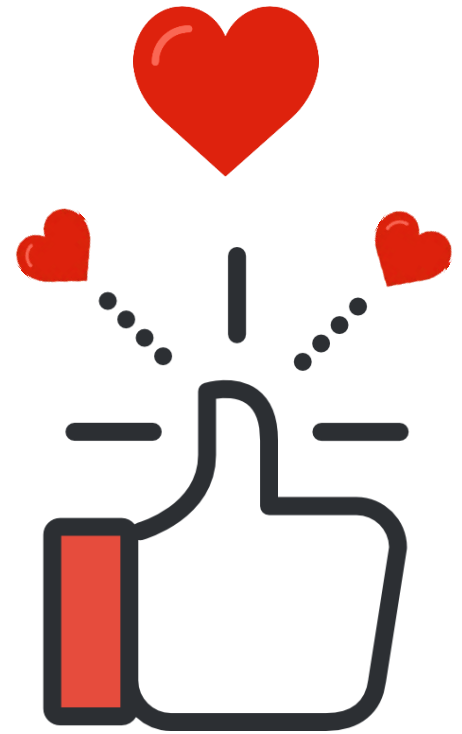
**Just Dial**

[https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4\\_BZDET](https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4_BZDET)



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#AkashSir

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