



Node.js Upload Files

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The Formidable Module

There is a very good module for working with file uploads, called "Formidable".

The Formidable module can be downloaded and installed using NPM:

```
C:\Users\Your Name>npm install formidable
```

After you have downloaded the Formidable module, you can include the module in any application:

```
var formidable = require('formidable');
```

Upload Files

Now you are ready to make a web page in Node.js that lets the user upload files to your computer:

Step 1: Create an Upload Form

Create a Node.js file that writes an HTML form, with an upload field:

Example

This code will produce an HTML form:

```
var http = require('http');

http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.write('<form action="fileupload" method="post"
  enctype="multipart/form-data">');
  res.write('<input type="file" name="filetoupload"><br>');
  res.write('<input type="submit">');
  res.write('</form>');
  return res.end();
}).listen(8080);
```

Step 2: Parse the Uploaded File

Include the Formidable module to be able to parse the uploaded file once it reaches the server.

When the file is uploaded and parsed, it gets placed on a temporary folder on your computer.

Example

The file will be uploaded, and placed on a temporary folder:

```
var http = require('http');
var formidable = require('formidable');

http.createServer(function (req, res) {
  if (req.url == '/fileupload') {
    var form = new formidable.IncomingForm();
    form.parse(req, function (err, fields, files) {
      res.write('File uploaded');
      res.end();
    });
  } else {
    res.writeHead(200, {'Content-Type': 'text/html'});
    res.write('<form action="fileupload" method="post"
    enctype="multipart/form-data">');
    res.write('<input type="file" name="filetoupload"><br>');
    res.write('<input type="submit">');
    res.write('</form>');
    return res.end();
  }
});
```

```
}  
}).listen(8080);
```

Step 3: Save the File

When a file is successfully uploaded to the server, it is placed on a temporary folder.

The path to this directory can be found in the "files" object, passed as the third argument in the `parse()` method's callback function.

To move the file to the folder of your choice, use the File System module, and rename the file:

Example

Include the fs module, and move the file to the current folder:

```
var http = require('http');  
var formidable = require('formidable');  
var fs = require('fs');  
  
http.createServer(function (req, res) {  
  if (req.url == '/fileupload') {  
    var form = new formidable.IncomingForm();  
    form.parse(req, function (err, fields, files) {  
      var oldpath = files.fileupload.path;  
      var newpath = 'C:/Users/Your Name/' + files.fileupload.name;  
      fs.rename(oldpath, newpath, function (err) {  
        if (err) throw err;  
        res.write('File uploaded and moved!');  
        res.end();  
      });  
    });  
  } else {  
    res.writeHead(200, {'Content-Type': 'text/html'});  
    res.write('<form action="fileupload" method="post"  
    enctype="multipart/form-data">');  
    res.write('<input type="file" name="fileupload"><br>');  
    res.write('<input type="submit">');  
    res.write('</form>');
```

```
    return res.end();  
  }  
}).listen(8080);
```

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