back-end

Forms & Connect

lab-3b

Show what you did

Stand-up!

today

- I. Stand-up
- II. Files
- III. Connect



files

multer

```
Files
express-server/
  node_modules/
   static/
      index.css
      index.js
      upload/
   view/
      add.ejs
      detail.ejs
     head.ejs
      list.ejs
      not-found.ejs
      tail.ejs
   index.js
  package.json
```



files folder

```
bash
   Files
express-server/
                                                 $ npm install multer
  node_modules/
   static/
                                                 + multer@1.3.0
     index.css
                                                 added 20 packages in 3.041s
      index.js
                     We'll upload files to static/upload
     upload/
   view/
    - add.ejs
      detail.ejs
     head.ejs
     list.ejs
     not-found.ejs
     tail.ejs
   index.js
```

package.json

Express

```
img {
  max-width: 100%;
  max-height: 15em
}
```

```
view/detail.ejs
...
<h1><%= data.title %></h1>
<% if (data.cover) { %>
<img
   alt
   src="/upload/<%= data.cover %>"
>
<% } %>
<%= data.description %>
...
```



```
<form
 action=/
 method=post
                                                 Needed for input[type=file]
 enctype=multipart/form-data
  <label>Title <input name=title></label>
  <label>
    Cover
    <input name=cover type=file accept=image/*>
  </label>
  <label>
    Plot (short)
    <input name=plot>
  </label>
  <button>Add</button>
</form>
<% include tail.ejs %>
```

view/add.ejs

<title>Add a movie - My movie website</title>

<% include head.ejs %>

<h1>Add a new movie</h1>

```
<title>Add a movie - My movie website</title>
<h1>Add a new movie</h1>
<form
 action=/
 method=post
  enctype=multipart/form-data
  <label>Title <input name=title></label>
  <label>
    Cover
    <input name=cover type=file accept=image/*>
                                                           Accept only images
  </label>
  <label>
    Plot (short)
    <input name=plot>
  </label>
  <button>Add</button>
</form>
<% include tail.ejs %>
```

view/add.ejs

<% include head.ejs %>

```
<title>Add a movie - My movie website</title>
<h1>Add a new movie</h1>
<form
 action=/
 method=post
  enctype=multipart/form-data
  <label>Title <input name=title></label>
  <label>
    Cover
    <input name=cover type=file accept=image/*>
                                                           Accept only images
  </label>
  <label>
    Plot (short)
    <input name=plot>
  </label>
  <button>Add</button>
</form>
<% include tail.ejs %>
```

view/add.ejs

<% include head.ejs %>

```
index.ejs
var multer = require('multer')
var upload = multer({dest: 'static/upload/'})
express()
  .post('/', upload.single('cover'), add)
function add(req, res) {
  data.push({
    cover: req.file ? req.file
                                       multer sets req.file
  })
```

(press

Add a new movie

Wonder Woman

Diana, an Amazonian warrior...

Cover

wonder-woman.jpg

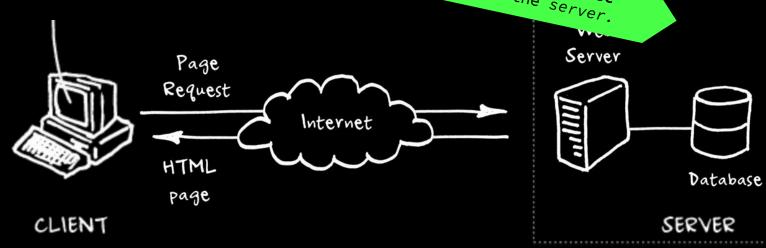
When a pilot crashes and tells of conflict in the outside world, Diana, an Amazonian warrior in training, leaves home ...

We can add files!



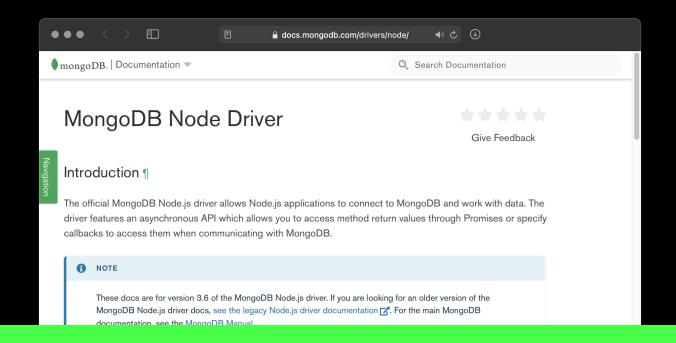
Connect

Move data to database instead of the server.



MongoDB (from humongous) is a free and open-source cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schemas. MongoDB is developed by MongoDB Inc. [...]

- JavaScript can be used in queries, aggregation function
- Map-reduce can be used for batch processing of data and aggregation operations
- Manage massive increases in new, rapidly changing data types



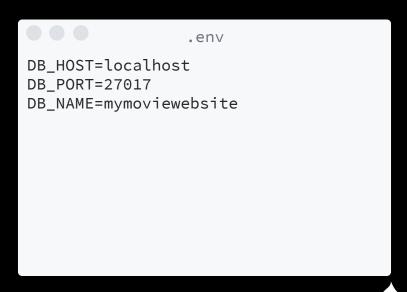
Note: there are a lot of small steps involved. Read the Mongo guides very carefully. If you miss a step everything will be broken.



connect

mongodb

```
Files
mongodb-server/
 - node_modules/
   static/
     index.css
      index.js
     upload/
   view/
     add.ejs
      detail.ejs
     head.ejs
      list.ejs
     not-found.ejs
    – tail.ejs
  .env
   index.js
   package.json
```



connect mongodb

```
.env
  Files
mongodb-server/
                                                   DB_HOST=localhost
 - node_modules/
                                                   DB_PORT=27017
  static/
                                                   DB_NAME=mymoviewebsite
    - index.css
    - index.js
     upload/
   view/
    - add.ejs
      detail.ejs
    - head.ejs
     list eis
```

Note: Never ever put your host and password in code or on GitHub! People will be able to access your database!

connect

mongodb

```
Files
mongodb-server/
  node_modules/
   static/
     index.css
      index.js
     upload/
   view/
     add.ejs
      detail.ejs
     head.ejs
      list.ejs
      not-found.ejs
     tail.ejs
   .env
   .gitignore
  index.js
   package.json
```

```
.gitignore

node_modules/
.DS_Store
.env
```

```
var multer = require('multer')
var mongo = require('mongodb')
require('dotenv').config()
var db = null
var url = 'mongodb://' + process.env.DB_HOST + ':' +
process.env.DB_PORT
mongo.MongoClient.connect(url, function (err, client) {
  if (err) throw err
  db = client.db(process.env.DB_NAME)
})
```



Connect

connect



Create a database and set-up your remote connection

Synopsis

- Time: 2:00h
- Goals: subgoal 7, subgoal 8
- Due: before week 4

Description

We'll cover actually storing the user input and learning about databases the next lesson but what you already do is create a MongoDB atlas account and set-up your mongodb connection.

All of your data is going to be stored in MongoDB. Take ± 2 hours to set-up your database and connect to it. There are roughly two options: go

work on connect

Connect

connect



Create a database and set-up your remote connection

Synopsis

- Time: 2:00h
- Goals: subgoal 7, subgoal 8
- Due: before week 4

Description

Note: If you are ready, begin on week-4 because after the holiday we 'only' have one week left before A1.

exit;

see you in lab-4a!