

CSc 337

MongoDB / Mongoose

Benjamin Dicken

Database Connection with Mongoose

```
const mongoose = require('mongoose');  
// ...  
const mongoDBURL = 'mongodb://127.0.0.1/database_name';  
mongoose.connect(mongoDBURL, { useNewUrlParser: true });  
mongoose.connection.on('error', () => {  
  console.log('Connection error')  
});
```

Creating a Schema

```
var MemeSchema = new mongoose.Schema({
  fileName: String,
  text: String,
  count: Number,
  // can have more items
});
var Meme = mongoose.model('Meme', MemeSchema );
```

Saving Into the DB

```
let newMeme = new Meme({ fileName: theFileName,  
  text: theString, count: someNumber });  
let p = newMeme.save();  
p.then(() => {  
  console.log('Saved successfully');  
});  
p.catch((error) => {  
  console.log('Save failed');  
  console.log(error);  
});
```

Searching For Documents

```
let p = Meme.find({}).exec();
p.then((results) => {
  // results is an array of all of the Memes found
  // Do stuff
  res.end(results);
});
p.catch((error) => {
  console.log('Save failed');
  console.log(error);
});
```

Searching For Documents

```
let p = Meme.find({'text' : 'hi'}).exec();
p.then((results) => {
  // results is an array of all of the Memes found
  // Do stuff
  res.end(results);
});
p.catch((error) => {
  console.log('Save failed');
  console.log(error);
});
```

Searching For Documents

```
let p = Meme.find({'text' : {$regex : 'hi'}}).exec();
p.then((results) => {
  // results is an array of all of the Memes found
  // Do stuff
  res.end(results);
});
p.catch((error) => {
  console.log('Save failed');
  console.log(error);
});
```

POST Handling - Server Side - JSON

```
const express = require('express');
const parser = require('body-parser');

const app = express();
app.use(parser.json());

app.post('/some/route', (req, res) => {
  let a = req.body.alias;
  // ...
});
```

POST Handling - Client Side - JSON

```
let p = fetch(someURL, {  
  method: 'POST',  
  body: JSON.stringify(someObject),  
  headers: { 'Content-Type': 'application/json' }  
});
```

```
p.then((response) => {  
  return response.text();  
}).then((text) => {  
  console.log(text);  
}); // What about the errors?
```