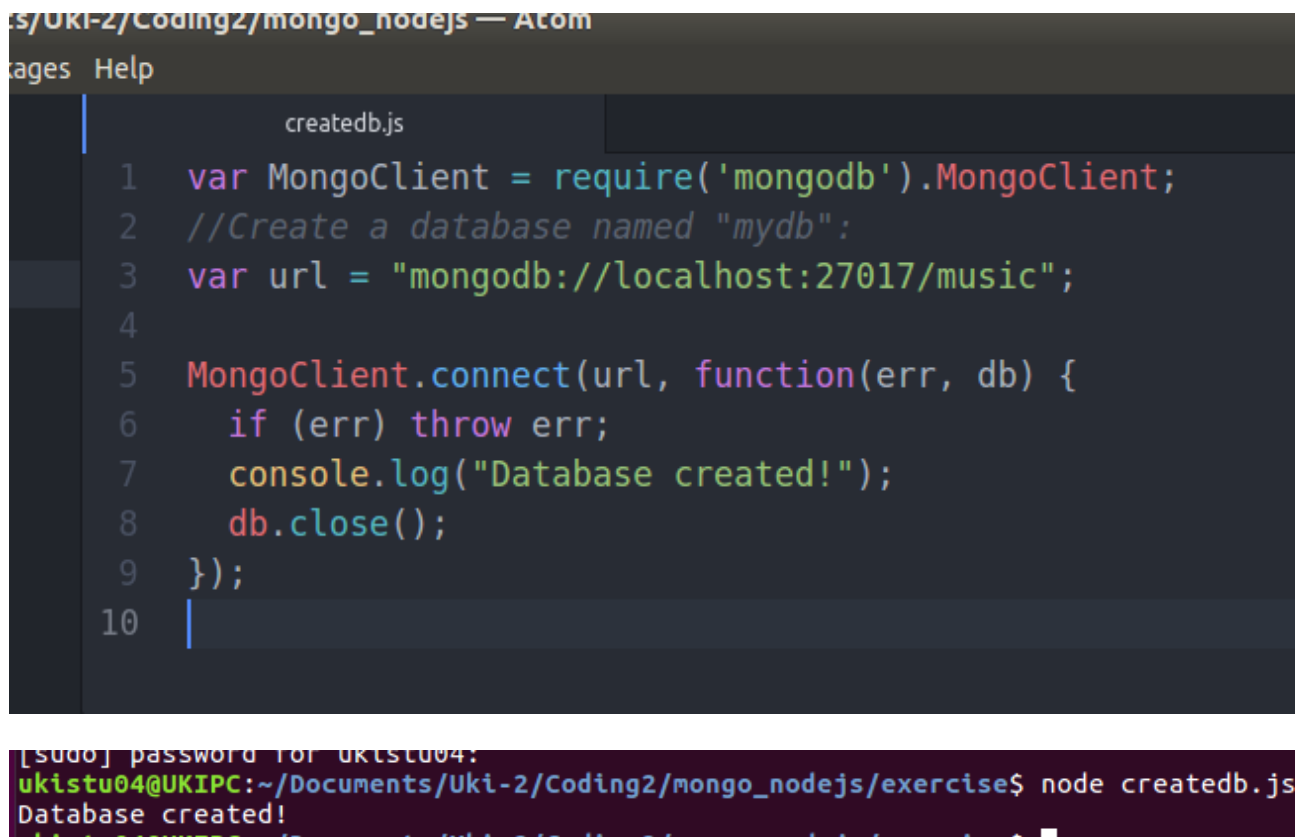


1. Create a MongoClient object, then specify a connection URL with the correct ip address and the name of the database you want to create.

1) Create a Database called music.



The image shows a code editor window (Atom) and a terminal window. The code editor displays a file named `createdb.js` with the following JavaScript code:

```
1 var MongoClient = require('mongodb').MongoClient;
2 //Create a database named "mydb":
3 var url = "mongodb://localhost:27017/music";
4
5 MongoClient.connect(url, function(err, db) {
6   if (err) throw err;
7   console.log("Database created!");
8   db.close();
9 });
10
```

The terminal window shows the command `node createdb.js` being executed, resulting in the output `Database created!`.

2) Create a collection called songdetails.

```
createdb.js | createcollection.js
1  var MongoClient = require('mongodb').MongoClient;
2  var url = "mongodb://localhost:27017/music";
3
4  MongoClient.connect(url, function(err, db) {
5    if (err) throw err;
6    var uki = db.db("music");
7    uki.createCollection("songdetails", function(err, res) {
8      if (err) throw err;
9      console.log("Collection created!");
10     db.close();
11   });
12 });
13
```

```
at process._tickCallback (internal/process/next_tick.js:130:11)
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node createcollection.js
Collection created!
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$
```

3) Create the above 5 song documents.

```
z/Coding2/mongo_nodejs — Atom
Find Packages Help
createdb.js | createcollection.js | insert.js
1  var MongoClient = require('mongodb').MongoClient;
2  var url = "mongodb://localhost:27017/music";
3
4  MongoClient.connect(url, function(err, db) {
5    if (err) throw err;
6    var uki = db.db("music");
7    var myobj = [
8      { film: 'rhythm', music_director: 'A.R.Rahman', singer: 'shankar mahadevan', song_name: 'thaniye thannanthaniye'},
9      { film: 'alai payuthe', music_director: 'A.R.Rahman', singer: 'swarnalatha', song_name: 'evano oruvan'},
10     { film: 'kannukkul nilavu', music_director: 'ilayaraaja', singer: 'unnikrishnan,anuradha sriram', song_name: 'roja poonthottam'},
11     { film: 'minsara kanavu', music_director: 'A.R.Rahman', singer: 'hariharaan,shadhana sargam', song_name: 'vennilave vennilave vinnaithandi'},
12     { film: 'dheena', music_director: 'yuvan shankar raja', singer: 'hariharan', song_name: 'sollamal thottu chellum thendral'}
13   ];
14   uki.collection("songdetails").insertMany(myobj, function(err, res) {
15     if (err) throw err;
16     console.log("Number of documents inserted: " + res.insertedCount);
17     db.close();
18   });
19 });
20
```

```

Collection created:
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node insert.js
Number of documents inserted: 5
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$

```

4) List all documents created.

createdb.js	createcollection.js	insert.js	findall.js
<pre> 1 var MongoClient = require('mongodb').MongoClient; 2 var url = "mongodb://localhost:27017/music"; 3 4 MongoClient.connect(url, function(err, db) { 5 if (err) throw err; 6 var uki = db.db("music"); 7 uki.collection("songdetails").find({}).toArray(function(err, result) { 8 if (err) throw err; 9 console.log(result); 10 db.close(); 11 }); 12 }); 13 </pre>			

```

ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node findall.js
[ { _id: 5a3b86a6f167523fd6fad1cc,
  song_name: 'Thaniye',
  film: 'Rhythm',
  music_director: 'A.R.Rahman',
  singer: 'Shankar_Mahadevan' },
  { _id: 5a3b8737f167523fd6fad1cd,
    film: 'Alai_pauthe',
    music_director: 'A.R.Rahman',
    singer: 'Swarnalatha',
    song_name: 'nee_illai' },
  { _id: 5a3b88ecf167523fd6fad1ce,
    song_name: 'Roja_poonthoddam',
    film: 'Kannukkul_nilavu',
    music_director: 'Ilayarajah',
    singer: 'Unnikrishanan,Anuradha_sriram' },
  { _id: 5a3b8959f167523fd6fad1cf,
    song_name: 'Vennilave_vennilave',
    film: 'Minsara_kanavu',
    music_director: 'A.R.Rahman',
    singer: 'Hariharan,Shadhana_sargam' },
  { _id: 5a3b89b1f167523fd6fad1d0,
    song_name: 'Sollamal_thoddu_chellum_thendral',
    film: 'Dheena',
    music_director: 'Yuvan_shankar_rajah',
    singer: 'Hariharan' },
  { _id: 5a3b8a11f167523fd6fad1d1,
    song_name: 'Sollamal_thoddu_chellum_thendral',
    film: 'Dheena',
    music_director: 'Yuvan_shankar_rajah',
    singer: 'Hariharan' } ]

```

5) List A.R.Rahman's songs.

```
2/mongo_nodejs Atom
kages Help

createdb.js createcollection.js insert.js findall.js findsome.js

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/music";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var uki = db.db("music");
7   /*Return only the documents with the address "Park Lane 38":*/
8   var query = { music_director: 'A.R.Rahman' };
9   uki.collection("songdetails").find(query).toArray(function(err, result) {
10     if (err) throw err;
11     console.log(result);
12     db.close();
13   });
14 });
15
```

```
song_name: 'sollamal_thottu_chellum_thendral' } ]
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node findsome.js
[ { _id: 5a3b86a6f167523fd6fad1cc,
  song_name: 'Thaniye',
  film: 'Rhythm',
  music_director: 'A.R.Rahman',
  singer: 'Shankar_Mahadevan' },
  { _id: 5a3b8737f167523fd6fad1cd,
    film: 'Alai_pauthe',
    music_director: 'A.R.Rahman',
    singer: 'Swarnalatha',
    song_name: 'nee_illai' },
  { _id: 5a3b8959f167523fd6fad1cf,
    song_name: 'Vennilave_vennilave',
    film: 'Minsara_kanavu',
    music_director: 'A.R.Rahman',
    singer: 'Hariharan,Shadhana_sargam' },
```

6) List A.R.Rahman's songs sung by Unnikrishnan.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  dbo.collection("songdetails").find({music_director: "A.R.Rahman", singer: "unnikrishnan"},{_id: false, name: true}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
|
```

```
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node unni_ar.js
[]
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node unni_ar.js
[]
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$
```

7) Delete the song which you don't like.

```

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/music";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var uki = db.db("music");
7   /*Delete the first customers with the address "Mountain 21":*/
8   var myquery = { song_name:'evano_oruvan' };
9   uki.collection("songdetails").deleteOne(myquery, function(err, obj) {
10     if (err) throw err;
11     console.log("1 document deleted");
12     db.close();
13   });
14 });
15

```

```

at bootstrap_node.js:618:3
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node delete.js
1 document deleted

```

8) Add new song which is your favourite.

```

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   var myobj = { film: 'krish', music_director: 'A.R.Rahman', singer: 'chahon', song_name: 'then_vadikkum'};
8   dbo.collection("songdetails").insertOne(myobj, function(err, res) {
9     if (err) throw err;
10    console.log("1 document inserted");
11    db.close();
12  });
13 });
14

```

```

[ { _id: 5a55e7c1d7dfe4472de17a3c,
  film: 'rhythm',
  music_director: 'A.R.Rahman',
  singer: 'shankar mahadevan'
} ]

```

9) List Songs sung by Hariharan from dheena film.

```

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("music");
7   dbo.collection("songdetails").find({singer: "hariharan", film: "dheena"},{_id: false, name: true}).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13

```

```
ukistu04@UKIPC:~/Documents/Uki-2/Coding2/mongo_nodejs/exercise$ node sung_hari.js
[ { _id: 5a55e7c1d7dfe4472de17a40,
  film: 'dheena',
  music_director: 'yuvan_shankar_raja',
  singer: 'hariharan',
  song_name: 'sollamal_thottu_chellum_thendral' } ]
```

10) List out the singers' names in your document.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("music");
  dbo.collection("songdetails").find({}, {singer: true, _id: false}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
```