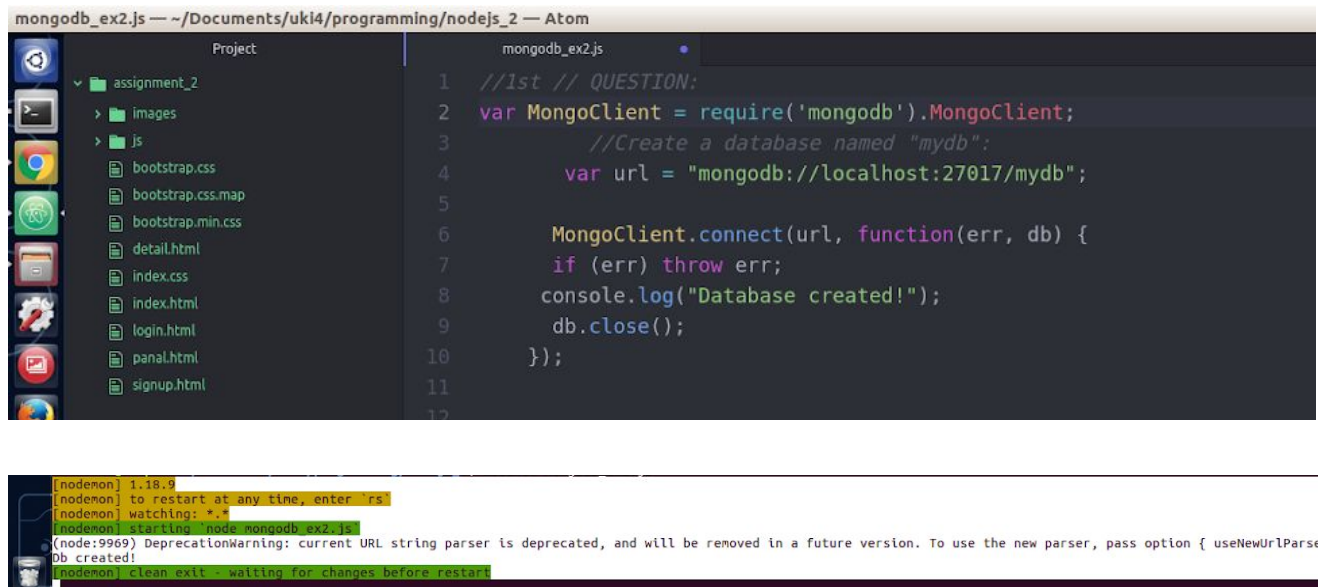


1. Create a MongoClient object, then specify a connection URL with the correct ip address and the name of the database you want to create.

1) Create a Database called music.



The screenshot shows the Atom editor with a file named `mongodb_ex2.js` open. The code defines a `MongoClient` and connects to a database named `mydb`. The terminal output shows the successful execution of the script, including a deprecation warning about the URL string parser.

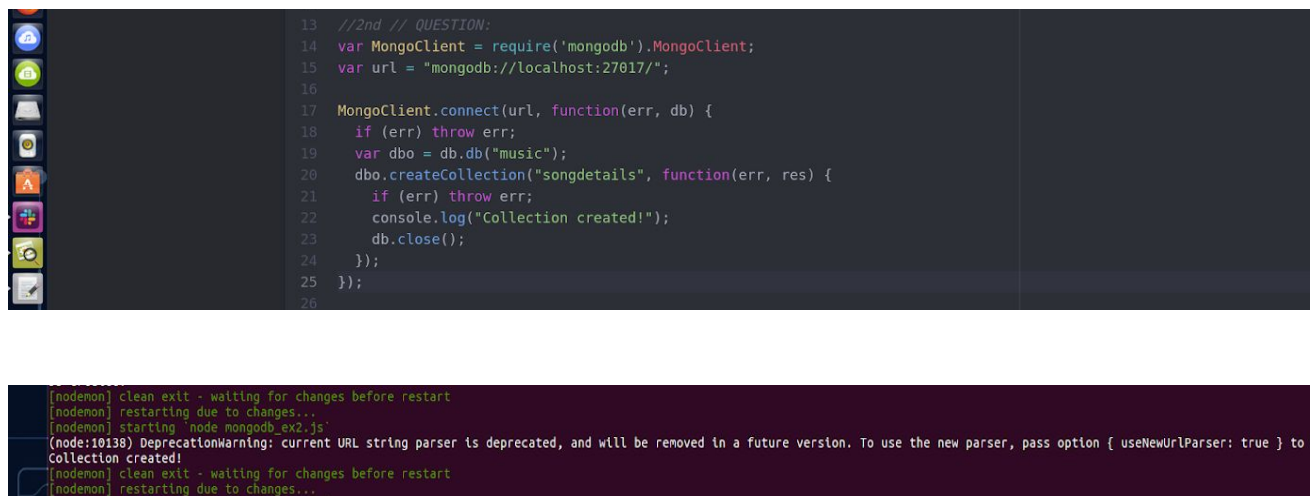
```
mongodb_ex2.js -- ~/Documents/uk14/programming/nodejs_2 -- Atom

Project
  assignment_2
    images
    js
    bootstrap.css
    bootstrap.css.map
    bootstrap.min.css
    detail.html
    index.css
    index.html
    login.html
    panel.html
    signup.html

mongodb_ex2.js
1 //1st // QUESTION:
2 var MongoClient = require('mongodb').MongoClient;
3 //Create a database named "mydb":
4 var url = "mongodb://localhost:27017/mydb";
5
6 MongoClient.connect(url, function(err, db) {
7   if (err) throw err;
8   console.log("Database created!");
9   db.close();
10 });
11
12

[nodenon] 1.18.9
[nodenon] to restart at any time, enter 'rs'
[nodenon] watching: *.js
[nodenon] starting 'node mongodb_ex2.js'
(node:9969) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect
Database created!
[nodenon] clean exit - waiting for changes before restart
```

2) Create a collection called song details.



The screenshot shows the Atom editor with the same file `mongodb_ex2.js`. The code is updated to create a collection named `songdetails` within the `music` database. The terminal output shows the successful execution of the script, including a deprecation warning about the URL string parser.

```
13 //2nd // QUESTION:
14 var MongoClient = require('mongodb').MongoClient;
15 var url = "mongodb://localhost:27017/";
16
17 MongoClient.connect(url, function(err, db) {
18   if (err) throw err;
19   var dbo = db.db("music");
20   dbo.createCollection("songdetails", function(err, res) {
21     if (err) throw err;
22     console.log("Collection created!");
23     db.close();
24   });
25 });
26

[nodenon] clean exit - waiting for changes before restart
[nodenon] restarting due to changes...
[nodenon] starting 'node mongodb_ex2.js'
(node:10138) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect
Collection created!
[nodenon] clean exit - waiting for changes before restart
[nodenon] restarting due to changes...
[nodenon] starting 'node mongodb_ex2.js'
```

3) Create the above 5 song documents.

```
mongodb_ex2.js -- /Documents/uk14/programming/nodejs_2 - Atom
Project: mongodb_ex2.js
26
27
28 //3rd // QUESTION:
29 var MongoClient = require('mongodb').MongoClient;
30 var url = "mongodb://localhost:27017/";
31
32 MongoClient.connect(url, function(err, db) {
33   if (err) throw err;
34   var dbo = db.db("music");
35   var myobj = [
36     {
37       Songname: "Thaniye Thananthaniye", flim: "Rhythm", Musicedirector: "A.R.Rahman", Singer: "Shankar mahadevan"
38     },
39     {
40       Songname: "Evano oruvan", flim: "Alai payuthe", Musicedirector: "A.R.Rahman", Singer: "Swarnalatha"
41     },
42     {
43       Songname: "Roja poonthooddam", flim: "Kannukkul nilavu", Musicedirector: "Ilaiyaraja", Singer: "unnikrishnan, Anuradha Sriram"
44     },
45     {
46       Songname: "Vennilave venilave vinnaithaandi", flim: "Minsarak kanavu", Musicedirector: "A.R.Rahman", Singer: "Hariharan, Sadhana Sargam"
47     },
48     {
49       Songname: "Sollamal thottu chellum thendral", flim: "Dheena", Musicedirector: "Yuvan Shankar Raja", Singer: "Hariharan"
50     }
51   ];
52
53   dbo.collection("songdetails").insertMany(myobj, function(err, res) {
54     if (err) throw err;
55     console.log("Number of documents inserted: " + res.insertedCount);
56     db.close();
57   });
58 });
59
60
(node:14579) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
Number of documents inserted: 5
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
[nodemon] starting 'node mongodb_ex2.js'
```

4) List all documents created.

```
61
62 //4th // QUESTION:
63 var MongoClient = require('mongodb').MongoClient;
64 var url = "mongodb://localhost:27017/";
65
66 MongoClient.connect(url, function(err, db) {
67   if (err) throw err;
68   var dbo = db.db("music");
69   dbo.collection("songdetails").find({}).toArray(function(err, result) {
70     if (err) throw err;
71     console.log(result);
72     db.close();
73   });
74 });

```

```
(node:14633) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { id: 'Sc51b4c7899ca338f3edaa71',
  Songname: 'Thaniye Thananthaniye',
  flim: 'Rhythm',
  Musicedirector: 'A.R.Rahman',
  Singer: 'Shankar mahadevan' },
  { id: 'Sc51b4c7899ca338f3edaa72',
  Songname: 'Evano oruvan',
  flim: 'Alai payuthe',
  Musicedirector: 'A.R.Rahman',
  Singer: 'Swarnalatha' },
  { id: 'Sc51b4c7899ca338f3edaa73',
  Songname: 'Roja poonthooddam',
  flim: 'Kannukkul nilavu',
  Musicedirector: 'Ilaiyaraja',
  Singer: 'unnikrishnan, Anuradha Sriram' },
  { id: 'Sc51b4c7899ca338f3edaa74',
  Songname: 'Vennilave venilave vinnaithaandi',
  flim: 'Minsarak kanavu',
  Musicedirector: 'A.R.Rahman',
  Singer: 'Hariharan, Sadhana Sargam' },
  { id: 'Sc51b4c7899ca338f3edaa75',
  Songname: 'Sollamal thottu chellum thendral',
  flim: 'Dheena',
  Musicedirector: 'Yuvan Shankar Raja',
  Singer: 'Hariharan' } ]
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
[nodemon] starting 'node mongodb_ex2.js'
```

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

```
index.css
index.html
login.html
panel.html
signup.html

77 //5th // QUESTION:
78 var MongoClient = require('mongodb').MongoClient;
79 var url = "mongodb://localhost:27017/";
80 MongoClient.connect(url, function(err, db) {
81   if (err) throw err;
82   var dbo = db.db("NodeMusic");
83   //Find all documents in the customers collection:
84   dbo.collection("NodeDetails").find({MusicDirector : "A.R.Rahman"}).toArray(function(err, result) {
85     if (err) throw err;
86     console.log(result);
87     db.close();
88   });
89 });
```

```
[nodemon] starting 'node mongodb_ex2.js'
(node:14798) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[nodemon] clean exit - waiting for changes before restart
```

6) List Ilaiyaraaja's songs sung by Unnikrishnan.

```
Project: mongodb_ex2.js
assignment_2
  images
  js
  bootstrap.css
  bootstrap.css.map
  bootstrap.min.css
  detail.html
  index.css
  index.html
  login.html
  panel.html
  signup.html

91
92 //6th // QUESTION:
93 var MongoClient = require('mongodb').MongoClient;
94 var url = "mongodb://localhost:27017/";
95
96 MongoClient.connect(url, function(err, db) {
97   if (err) throw err;
98   var dbo = db.db("music");
99   var query = { Musicdirector: "Ilaiyaraaja", Singer: "unnikrishnan,Anuradha Sriram "};
100   dbo.collection("songdetails").find(query).toArray(function(err, result) {
101     if (err) throw err;
102     console.log(result);
103     db.close();
104   });
105 });
```

```
[nodemon] restarting due to changes...
[nodemon] starting 'node mongodb_ex2.js'
(node:14902) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { _id: '5c51b4c7899ca338f3eda73',
  Songname: 'Raja poonthooddam',
  film: 'Kannukkul nilavu',
  Musicdirector: 'Ilaiyaraaja',
  Singer: 'unnikrishnan,Anuradha Sriram' } ]
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
```

7) Delete the song which you don't like

```
106
107
108 //7th // QUESTION:
109 var MongoClient = require('mongodb').MongoClient;
110 var url = "mongodb://localhost:27017/";
111
112 MongoClient.connect(url, function(err, db) {
113   if (err) throw err;
114   var dbo = db.db("music");
115   var myquery = { Songname: "Raja poonthooddam"};
116   dbo.collection("songdetails").deleteOne(myquery, function(err, obj) {
117     if (err) throw err;
118     console.log("1 document deleted");
119     db.close();
120   });
121 });
122
```

```
[nodemon] restarting due to changes...
[nodemon] starting 'node mongodb_ex2.js'
(node:14976) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
1 document deleted
[nodemon] clean exit - waiting for changes before restart
```

8) Add new song which is your favourite.

```
124 //8th // QUESTION:
125 var MongoClient = require('mongodb').MongoClient;
126 var url = "mongodb://localhost:27017/";
127
128 MongoClient.connect(url, function(err, db) {
129   if (err) throw err;
130   var dbo = db.db("music");
131   var myobj = { Songname: "kannala kane", flim: "visuvasam", Musicedirector: "Ilaiyaraja", Singer: "Hariharan"};
132   dbo.collection("songdetails").insertOne(myobj, function(err, res) {
133     if (err) throw err;
134     console.log("1 document inserted");
135     db.close();
136   });
137 });
```

```
[nodemon] starting 'node mongodb_ex2.js'
(node:15042) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
1 document inserted
[nodemon] clean exit - waiting for changes before restart
```

9) List Songs sung by Hariharan from Minsara kanavu film.

```
140 //9th // QUESTION:
141 var url = "mongodb://localhost:27017/";
142
143 MongoClient.connect(url, function(err, db) {
144   if (err) throw err;
145   var dbo = db.db("music");
146
147   var query = {flim: "Minsarak kanavu", Singer: "Hariharan"};
148   dbo.collection("songdetails").find(query).toArray(function(err, result) {
149     if (err) throw err;
150     console.log(result);
151     db.close();
152   });
153 });
```

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

```
91
92 //6th // QUESTION:
93 var MongoClient = require('mongodb').MongoClient;
94 var url = "mongodb://localhost:27017/";
95
96 MongoClient.connect(url, function(err, db) {
97   if (err) throw err;
98   var dbo = db.db("music");
99   var query = { Musicedirector: "Ilaiyaraja", Singer: "unnikrishnan,Anuradha Sriram" };
100   dbo.collection("songdetails").find(query).toArray(function(err, result) {
101     if (err) throw err;
102     console.log(result);
103     db.close();
104   });
105 });
```

```
[nodemon] starting 'node mongodb_ex2.js'
(node:15329) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { _id: '5c51b4c7899ca338f3edaa71',
  Songname: 'Thanaye Thananthaniye',
  flim: 'Rhythm',
  Musicedirector: 'A.R.Rahman',
  Singer: 'Shankar nahadevan' },
  { _id: '5c51b4c7899ca338f3edaa72',
  Songname: 'Evano oruvan',
  flim: 'Alai payuthe',
  Musicedirector: 'A.R.Rahman',
  Singer: 'Swarnalatha' },
  { _id: '5c51b4c7899ca338f3edaa74',
  Songname: 'Vennilave venilave vinnathaandi',
  flim: 'Minsarak kanavu',
  Musicedirector: 'A.R.Rahman',
  Singer: 'Hariharan,Sadhana Sargam' },
  { _id: '5c51b4c7899ca338f3edaa75',
  Songname: 'Sollamal thottu chellun thendral',
  flim: 'Dheena',
  Musicedirector: 'Yuvan Shankar Raja',
  Singer: 'Hariharan' },
  { _id: '5c51b8e22bb4df3ac2f79c00',
  Songname: 'Kannala kane',
  flim: 'visuvasam',
  Musicedirector: 'Ilaiyaraja',
  Singer: 'Hariharan' } ]
[nodemon] clean exit - waiting for changes before restart
```