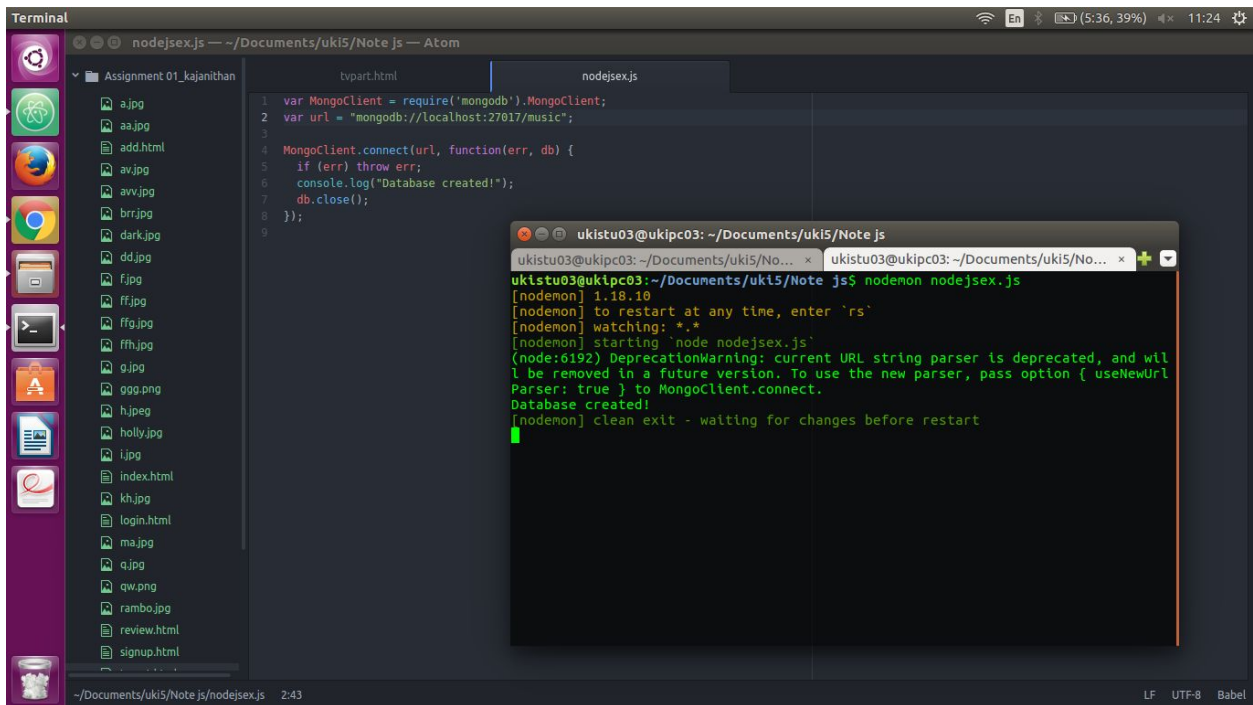


## 1) Create a Database called music.



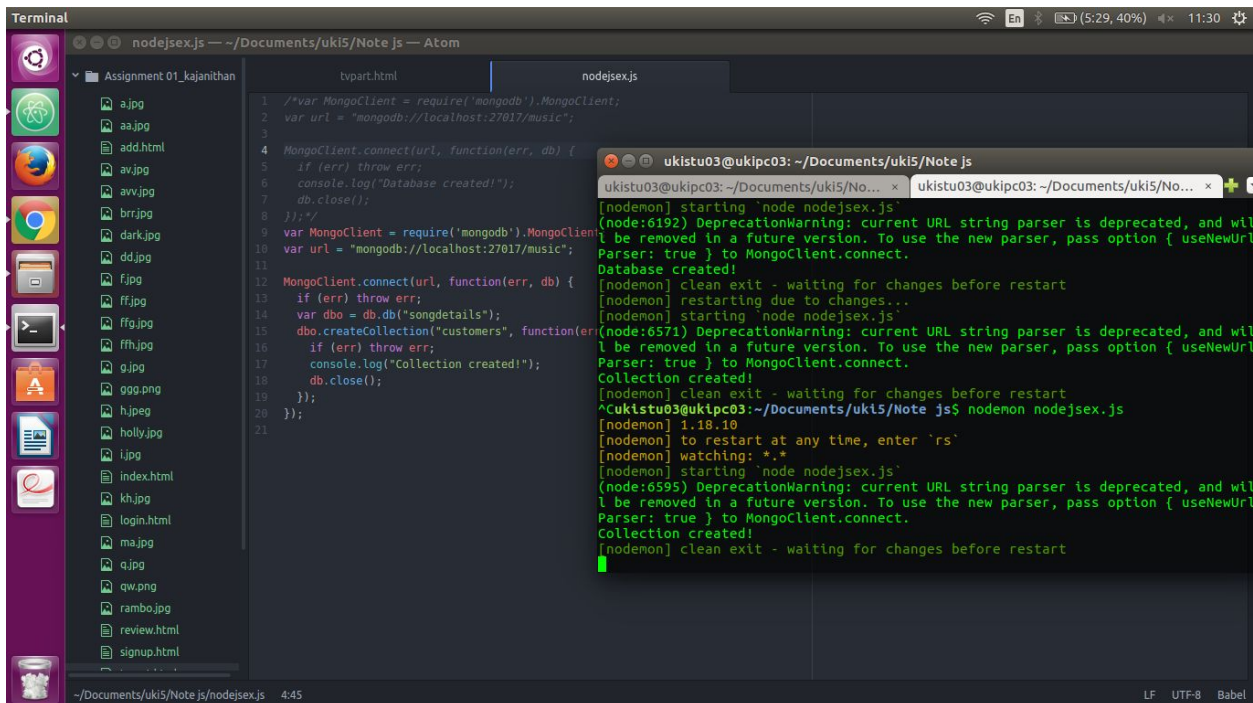
The screenshot shows the Atom editor with a file named `nodejsex.js` open. The code in the editor is as follows:

```
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   console.log("Database created!");
7   db.close();
8 });
```

The terminal window shows the command `nodemon nodejsex.js` being executed. The output is:

```
ukistu03@ukipc03: ~/Documents/uk15/Note js
ukistu03@ukipc03: ~/Documents/uk15/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nodejsex.js`
(node:6192) 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!
[nodemon] clean exit - waiting for changes before restart
```

## 2) Create a collection called songdetails.



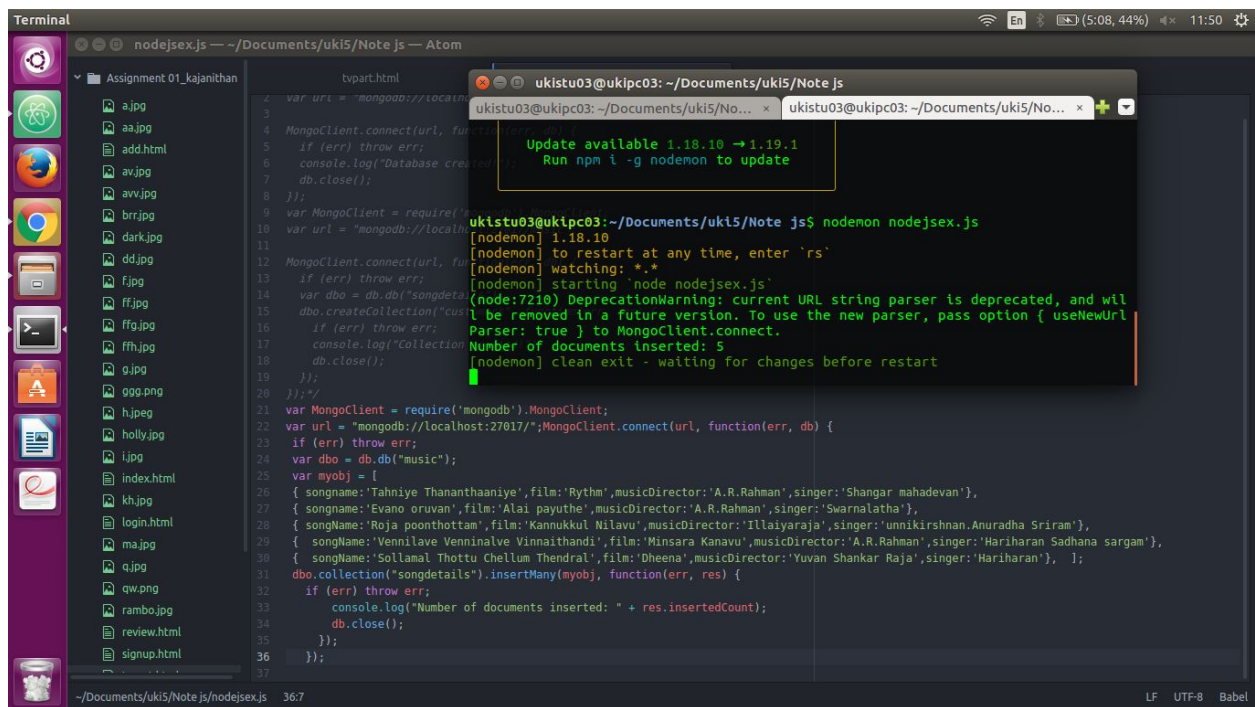
The screenshot shows the Atom editor with the `nodejsex.js` file updated. The code is:

```
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   console.log("Database created!");
7   db.close();
8 });
9
10 var MongoClient = require('mongodb').MongoClient;
11 var url = "mongodb://localhost:27017/music";
12
13 MongoClient.connect(url, function(err, db) {
14   if (err) throw err;
15   var dbo = db.db("songdetails");
16   dbo.createCollection("customers", function(err) {
17     if (err) throw err;
18     console.log("Collection created!");
19     db.close();
20   });
21 });
```

The terminal window shows the command `nodemon nodejsex.js` being executed. The output is:

```
ukistu03@ukipc03: ~/Documents/uk15/Note js
ukistu03@ukipc03: ~/Documents/uk15/Note js$ nodemon nodejsex.js
[nodemon] starting `node nodejsex.js`
(node:6192) 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!
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
[nodemon] starting `node nodejsex.js`
(node:6571) 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!
[nodemon] clean exit - waiting for changes before restart
^Cukistu03@ukipc03: ~/Documents/uk15/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nodejsex.js`
(node:6595) 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!
[nodemon] clean exit - waiting for changes before restart
```

3) Create the above 5 song documents.



```
Terminal
nodejsex.js -- ~/Documents/uk15/Note.js -- Atom

Assignment 01_kajanihan
a.jpg
aa.jpg
add.html
av.jpg
avv.jpg
brr.jpg
dark.jpg
dd.jpg
f.jpg
ff.jpg
ffg.jpg
ffh.jpg
g.jpg
ggg.png
h.jpeg
holly.jpg
i.jpg
index.html
kh.jpg
login.html
ma.jpg
q.jpg
qw.png
rambo.jpg
review.html
signup.html

~/Documents/uk15/Note.js/nodejsex.js 36/7

uk15tu03@uk15pc03: ~/Documents/uk15/Note.js
Update available 1.18.10 → 1.19.1
Run npm i -g nodemon to update

uk15tu03@uk15pc03:~/Documents/uk15/Note.js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node nodejsex.js'
(node:7210) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUrl
Parser: true } to MongoClient.connect.
Number of documents inserted: 5
[nodemon] clean exit - waiting for changes before restart

var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  console.log("Database created successfully");
  db.close();
});

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");
  var myobj = [
    { songname:'Tahniye Thananthaaniye',film:'Rythm',musicDirector:'A.R.Rahman',singer:'Shangar mahadevan'},
    { songname:'Evano oruvan',film:'Alai payutha',musicDirector:'A.R.Rahman',singer:'Swarnalatha'},
    { songName:'Raja poonthottam',film:'Kannukkul Nilavu',musicDirector:'Illaiyaraja',singer:'unnikirshnan.Anuradha Sriram'},
    { songName:'Vennilave Vennilave Vinnaithandi',film:'Minsara Kanavu',musicDirector:'A.R.Rahman',singer:'Hariharan Sadhana sargam'},
    { songName:'Sollamal Thottu Chellum Thendral',film:'Dheena',musicDirector:'Yuvan Shankar Raja',singer:'Hariharan'}, ];
  dbo.collection("songdetails").insertMany(myobj, function(err, res) {
    if (err) throw err;
    console.log("Number of documents inserted: " + res.insertedCount);
    db.close();
  });
});
```

4) List all documents created.

```

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({}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});

```

```

ukistu03@ukipc03: ~/Documents/uki5/Note js
ukistu03@ukipc03: ~/Documents/uki5/Note js
musicDirector: 'A.R.Rahman',
singer: 'Hartharan' } ]
[ { _id: 5d24339fbcff7b1cb7d30f5c,
  songName: 'Sollamal Thottu Chellum Thendral',
  film: 'Dheena',
  musicDirector: 'Yuvan Shankar Raja',
  singer: 'Hartharan' } ]
[nodemon] clean exit - waiting for changes before restart
^Cukistu03@ukipc03:~/Documents/uki5/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching: *.*
[nodemon] starting 'node nodejsex.js'
(node:8652) 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: 5d24339fbcff7b1cb7d30f58,
  songName: 'Tahniye Thananthaaniye',
  film: 'Rythm',
  musicDirector: 'A.R.Rahman',
  singer: 'Shangar mahadevan' },
  { _id: 5d24339fbcff7b1cb7d30f59,
  songName: 'Evano oruvan',
  film: 'Alai payuthe',
  musicDirector: 'A.R.Rahman',
  singer: 'Swarnalatha' },
  { _id: 5d24339fbcff7b1cb7d30f5a,
  songName: 'Roja poonthottam',
  film: 'Kannukkul Nilavu',
  musicDirector: 'Illaiyaraja',
  singer: 'unnikirshnan.Anuradha Sritram' },
  { _id: 5d24339fbcff7b1cb7d30f5b,
  songName: 'Vennilave Vennilave Vinnaitthandi',
  film: 'Minsara Kanavu',
  musicDirector: 'A.R.Rahman',
  singer: 'Hartharan Sadhana Sargam' },
  { _id: 5d24339fbcff7b1cb7d30f5c,
  songName: 'Sollamal Thottu Chellum Thendral',
  film: 'Dheena',
  musicDirector: 'Yuvan Shankar Raja',
  singer: 'Hartharan' } ]
[nodemon] clean exit - waiting for changes before restart

```

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





```

^Cukistu03@ukipc03:~/Documents/uki5/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nodejsex.js`
(node:8896) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new url parser, pass {url: true} to MongoClient.connect.
[nodemon] clean exit - waiting for changes before restart
~/Documents/uki5/Note js/nodejsex.js 80:4

```

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

```

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");
  var myquery = { songName: 'Tahniye Thananthaaniye' };
  dbo.collection("songdetails").deleteOne(myquery, function(err, obj) {
    if (err) throw err;
    console.log("1 document deleted");
    db.close();
  });
});

^Cukistu03@ukipc03:~/Documents/uki5/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nodejsex.js`
(node:9156) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new url parser, pass {url: true} to MongoClient.connect.
1 document deleted
[nodemon] clean exit - waiting for changes before restart
~/Documents/uki5/Note js/nodejsex.js 89:30

```

8) Add new song which is your favourite.

```

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");
  var myobj = { songname: 'Kaadhalea Kaadhalea', film: '96', musicDirector: 'Govind Vashatha', singer: 'Chinmayi' };
  dbo.collection("songdetails").insertOne(myobj, function(err, res) {
    if (err) throw err;
    console.log("1 document inserted");
    db.close();
  });
});

```

```

^Cukistu03@ukipc03:~/Documents/uki5/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nodejsex.js`
(node:9156) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version.
Use { useNewUrlParser: true } to MongoClient.connect.
1 document deleted
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
[nodemon] starting `node nodejsex.js`
(node:9454) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version.
Use { useNewUrlParser: true } to MongoClient.connect.
1 document inserted
[nodemon] clean exit - waiting for changes before restart
^Cukistu03@ukipc03:~/Documents/uki5/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nodejsex.js`
(node:9479) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version.
Use { 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.

```

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");
  var query = ( { $and:[{ Film: 'Minsara Kanavu', Singer: 'Hariharan' }]});
  dbo.collection("songdetails").find(query).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});

```

```

^Cukistu03@ukipc03:~/Documents/uki5/Note js$ nodemon nodejsex.js
[nodemon] 1.18.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node nodejsex.js`
(node:9732) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version.
Use { useNewUrlParser: true } to MongoClient.connect.
[]
[nodemon] clean exit - waiting for changes before restart

```

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({}, { projection: { _id: 0, singer: 1 } }).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
```

```
(node:9962) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. Use the option { useNewUrlParser: true } to MongoClient.connect.
[ { singer: 'Shangar mahadevan' },
  { singer: 'Swarnalatha' },
  { singer: 'unnikirshnan.Anuradha Sriram' },
  { singer: 'Hariharan Sadhana sargam' },
  { singer: 'Hariharan' },
  { singer: 'Chinmayi' },
  { singer: 'Chinmayi' } ]
[nodemon] clean exit - waiting for changes before restart
```