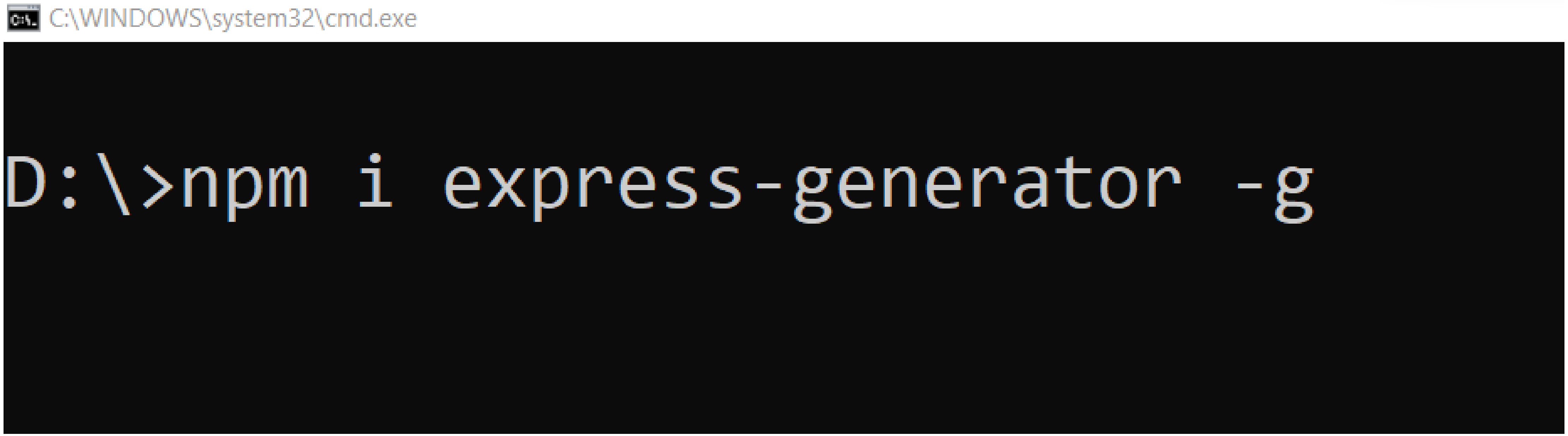
Express Generator

#Node.js Express Notes

Express Generator

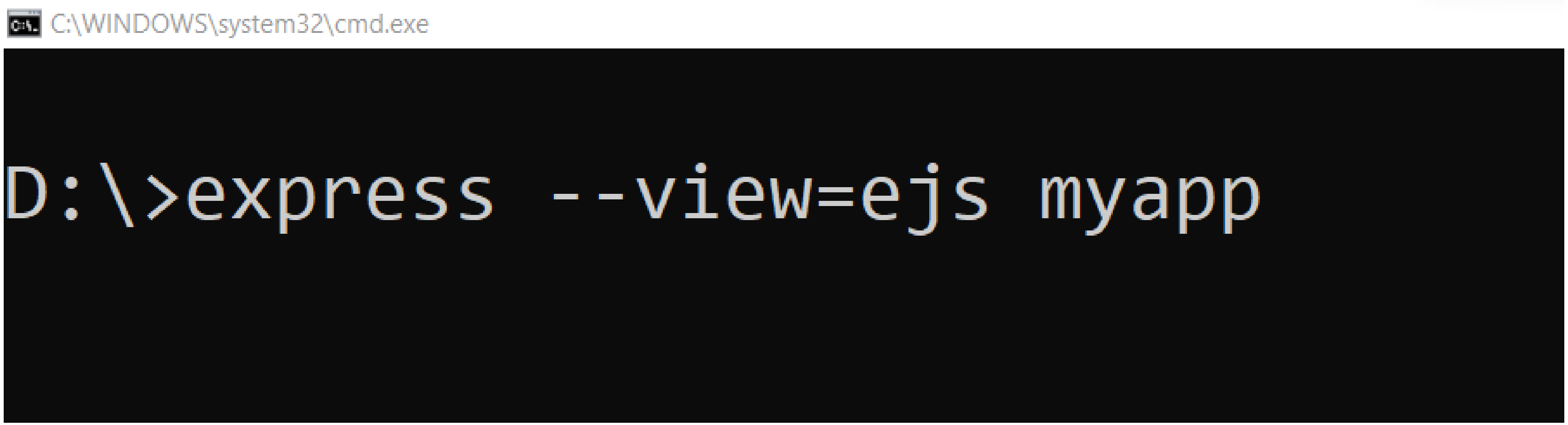
Download Express Generator Package



C:\WINDOWS\system32\cmd.exe

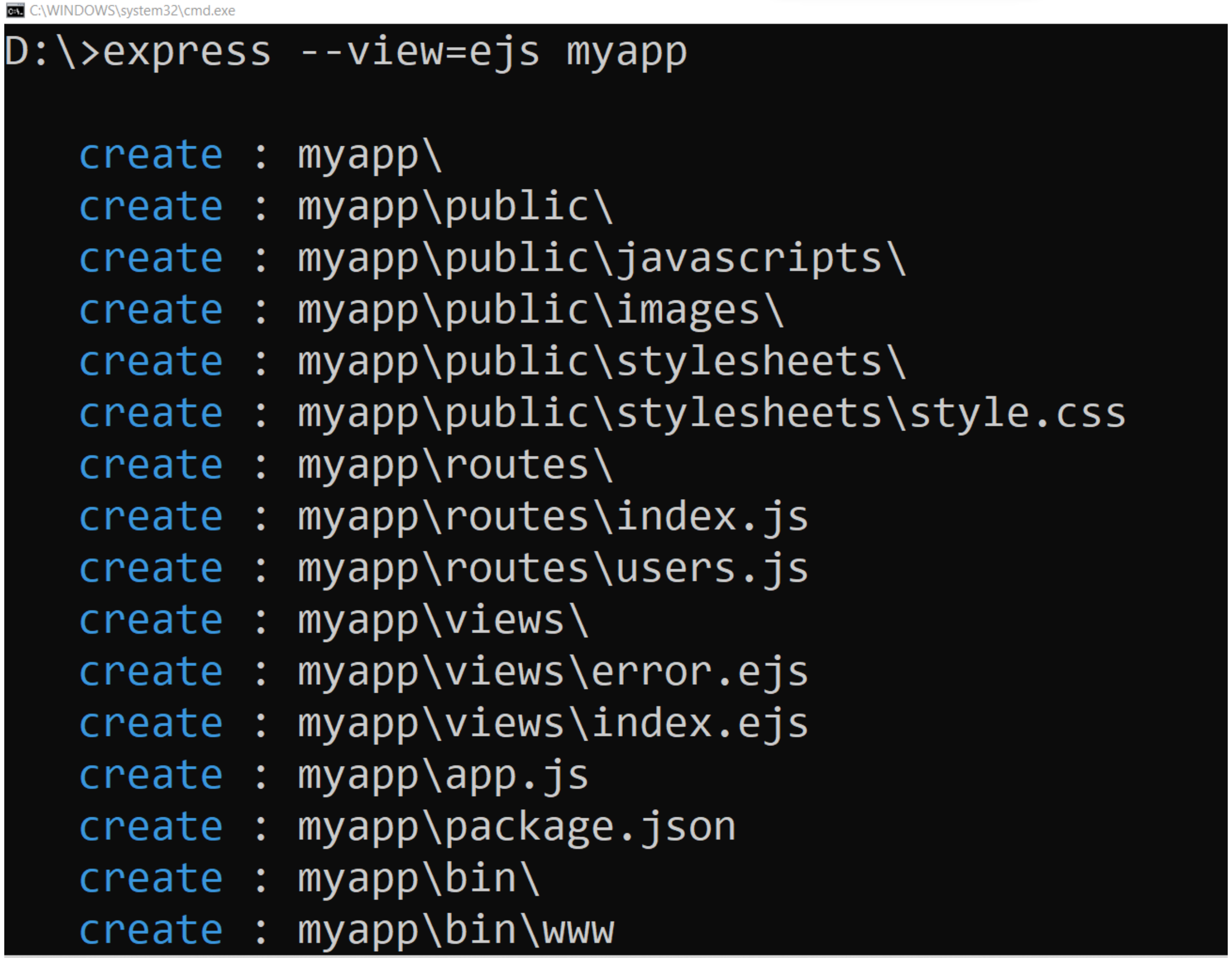
```
D:\>npm i express-generator -g
```

Create new Project



```
D:\>express --view=ejs myapp
```

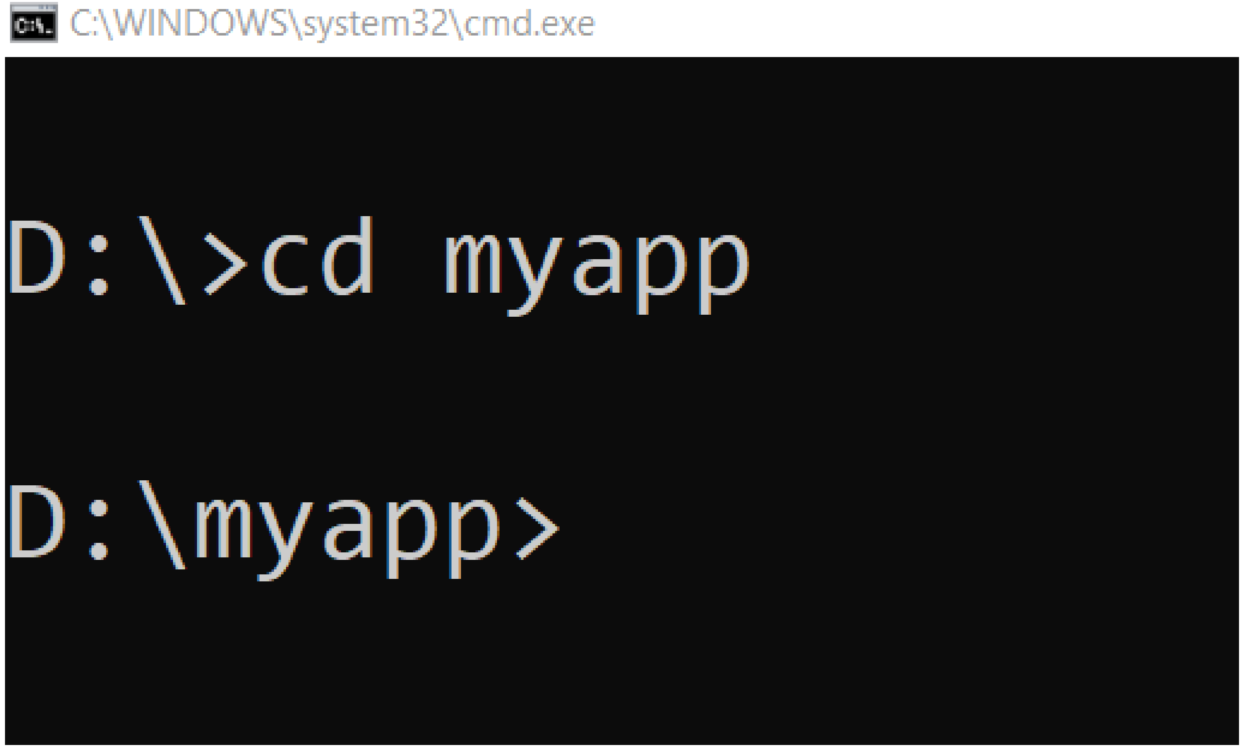
Project will Create various Folders



C:\WINDOWS\system32\cmd.exe

```
D:\>express --view=ejs myapp

   create : myapp\
   create : myapp\public\
   create : myapp\public\javascripts\
   create : myapp\public\images\
   create : myapp\public\stylesheets\
   create : myapp\public\stylesheets\style.css
   create : myapp\routes\
   create : myapp\routes\index.js
   create : myapp\routes\users.js
   create : myapp\views\
   create : myapp\views\error.ejs
   create : myapp\views\index.ejs
   create : myapp\app.js
   create : myapp\package.json
   create : myapp\bin\
   create : myapp\bin\www
```

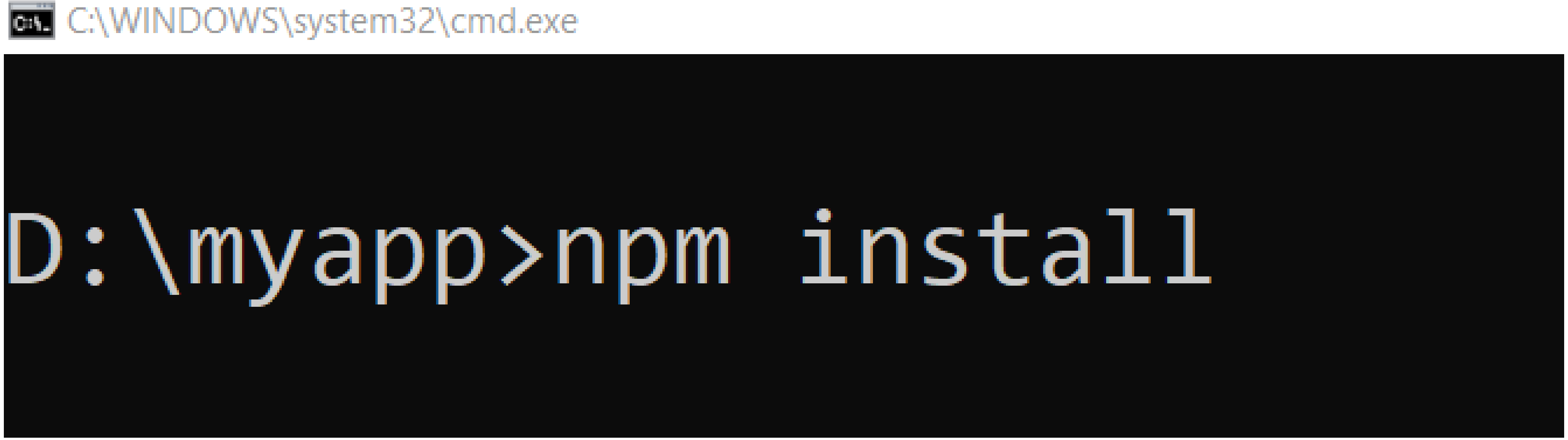
Navigate to Project



C:\WINDOWS\system32\cmd.exe

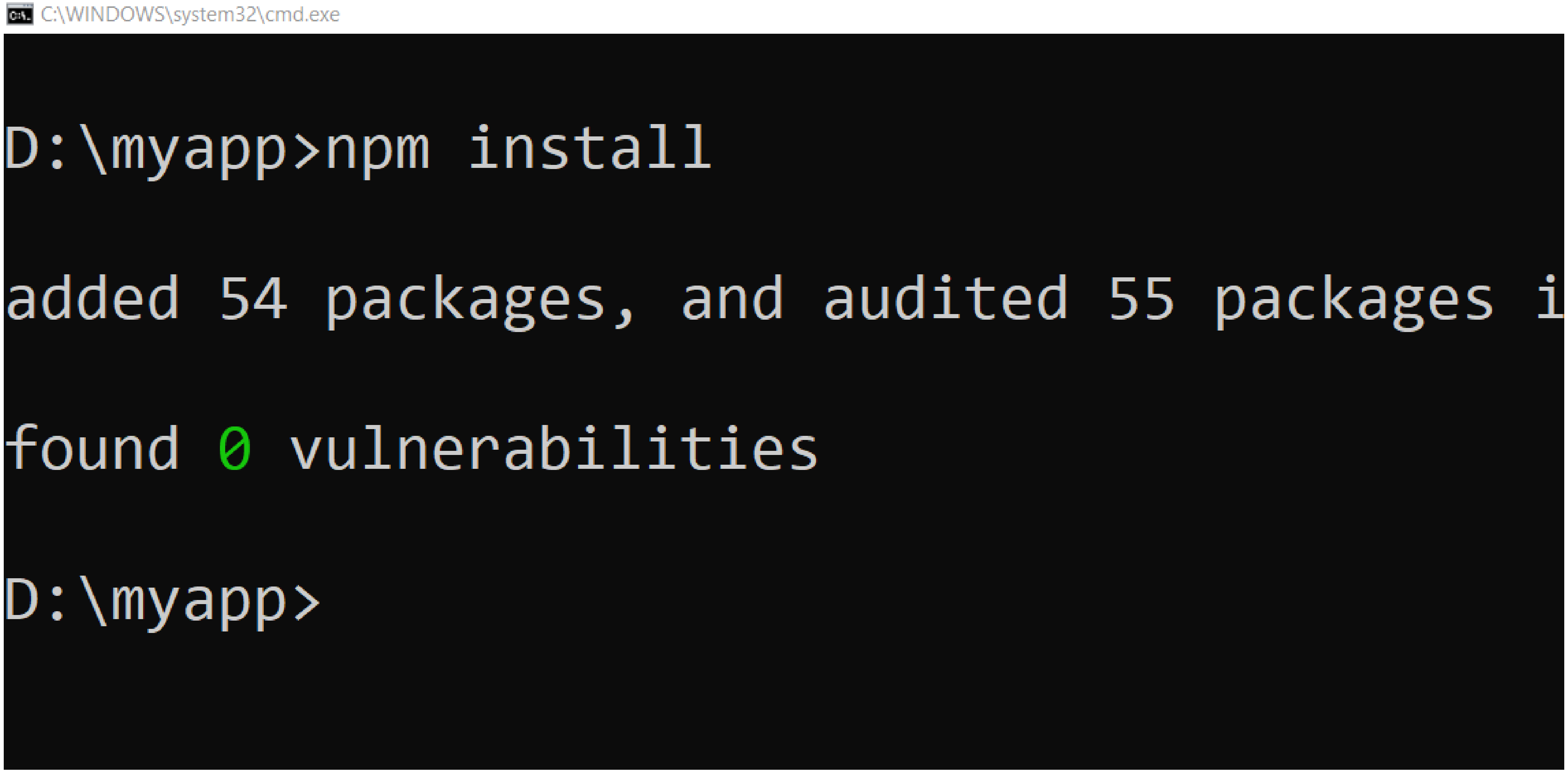
```
D:\>cd myapp

D:\myapp>
```

Download Dependency using npm install



```
D:\myapp>npm install
```

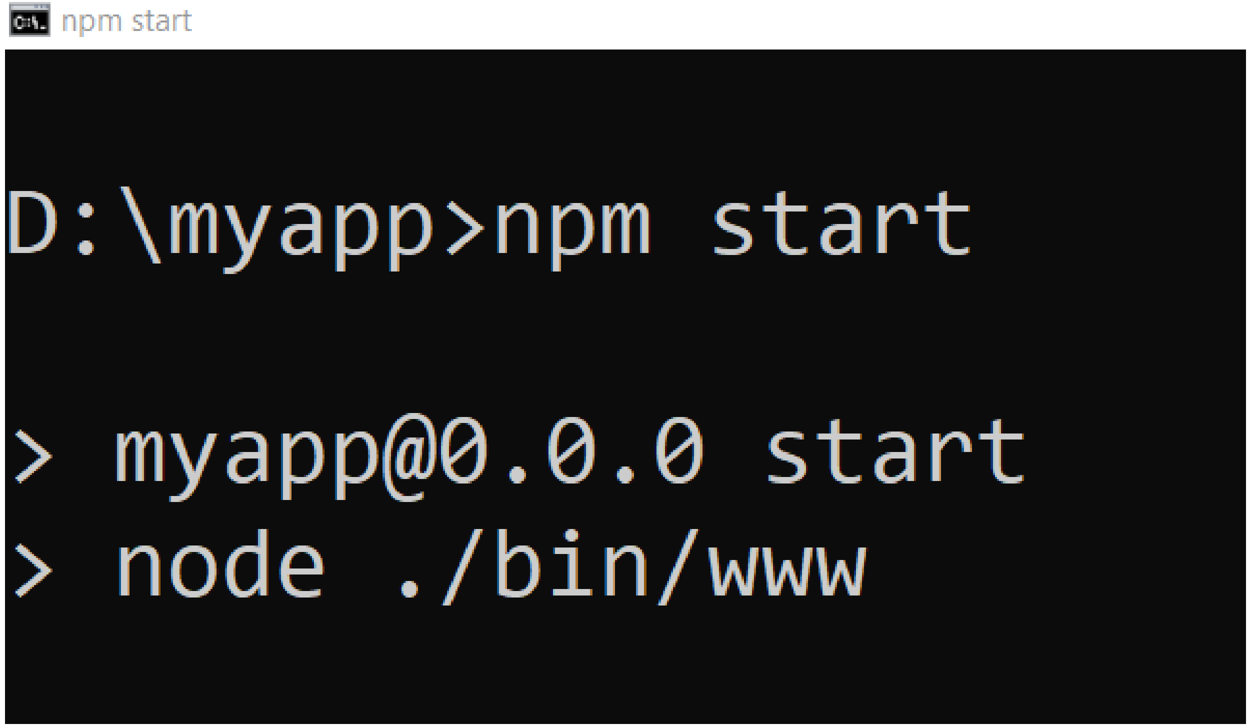
Install Successful



C:\WINDOWS\system32\cmd.exe

```
D:\myapp>npm install

added 54 packages, and audited 55 packages i

found 0 vulnerabilities

D:\myapp>
```

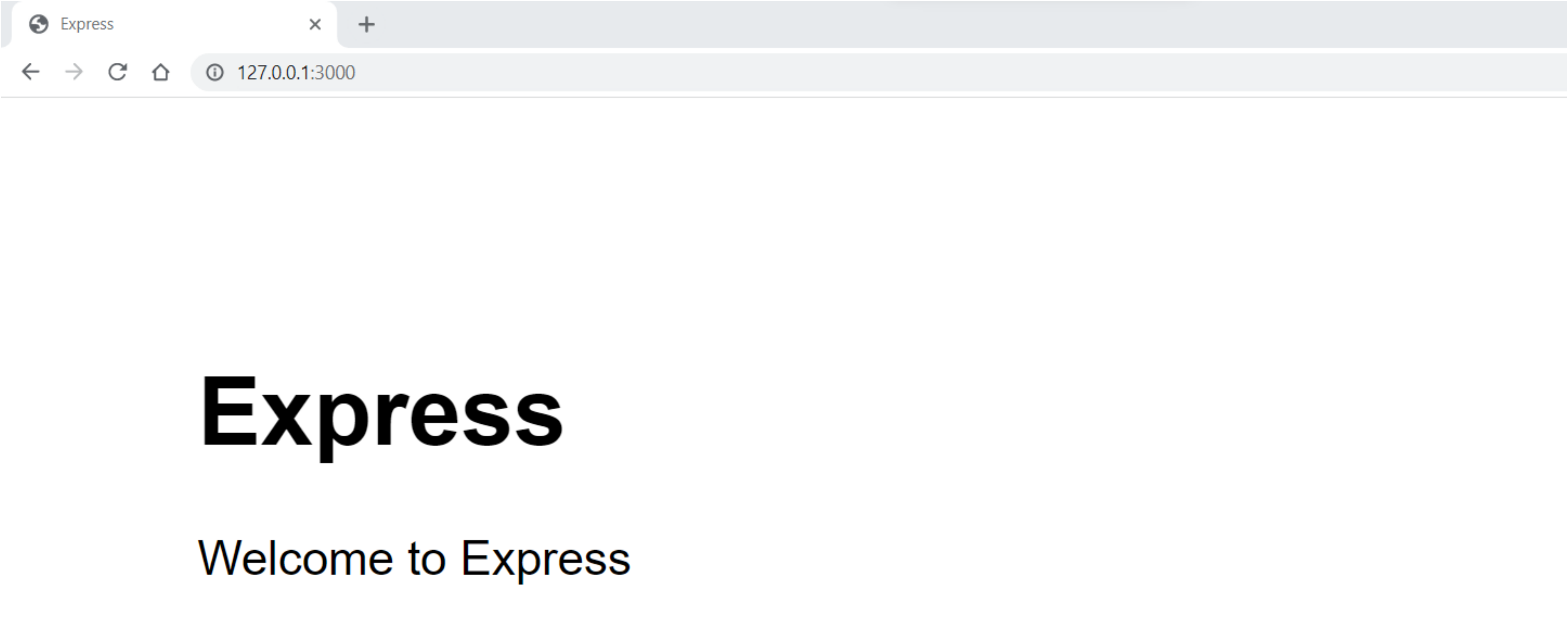
Run Project



npm start

```
D:\myapp>npm start

> myapp@0.0.0 start
> node ./bin/www
```

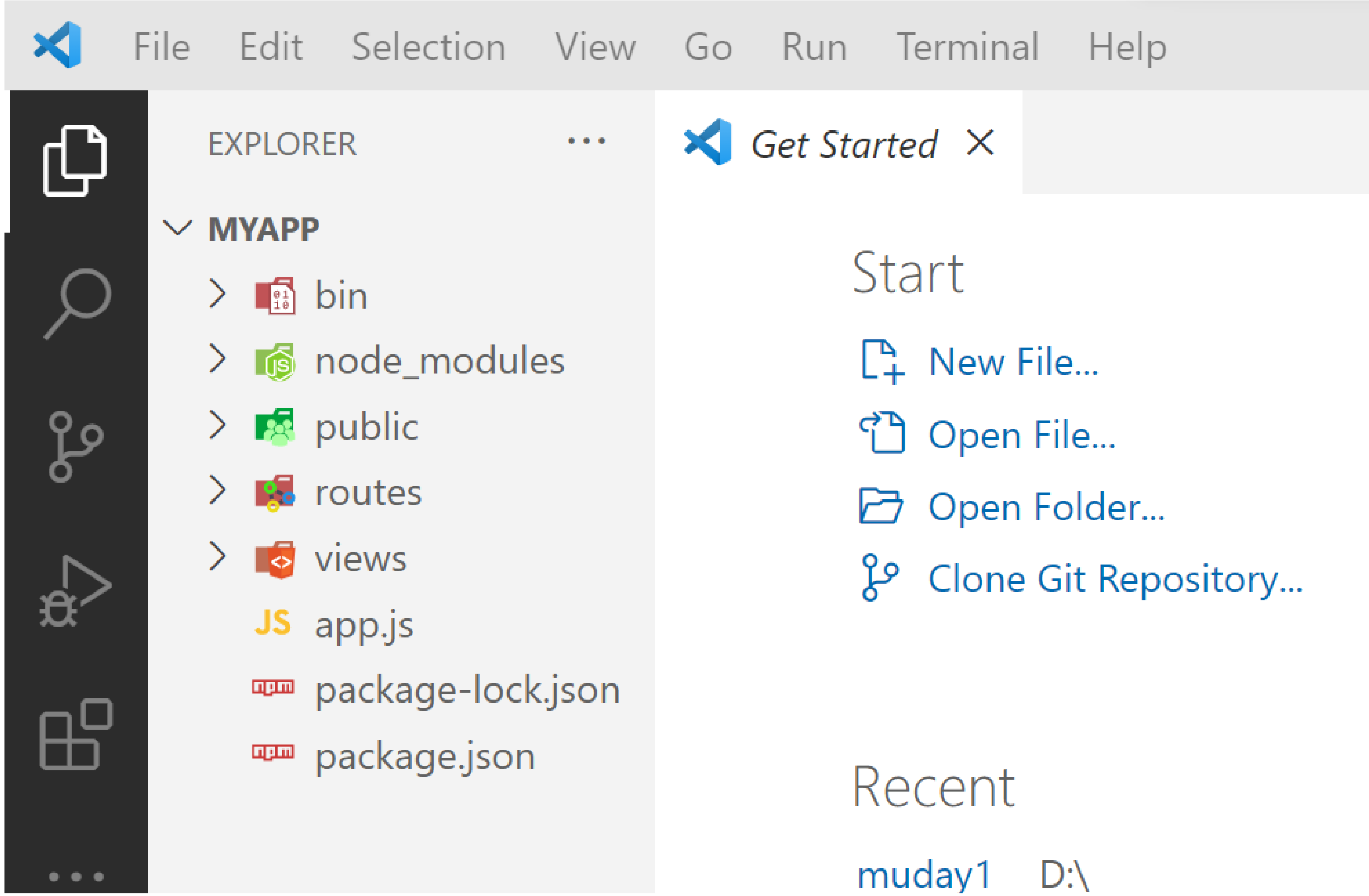
Output Browser (http://127.0.0.1:3000)



Express

Welcome to Express

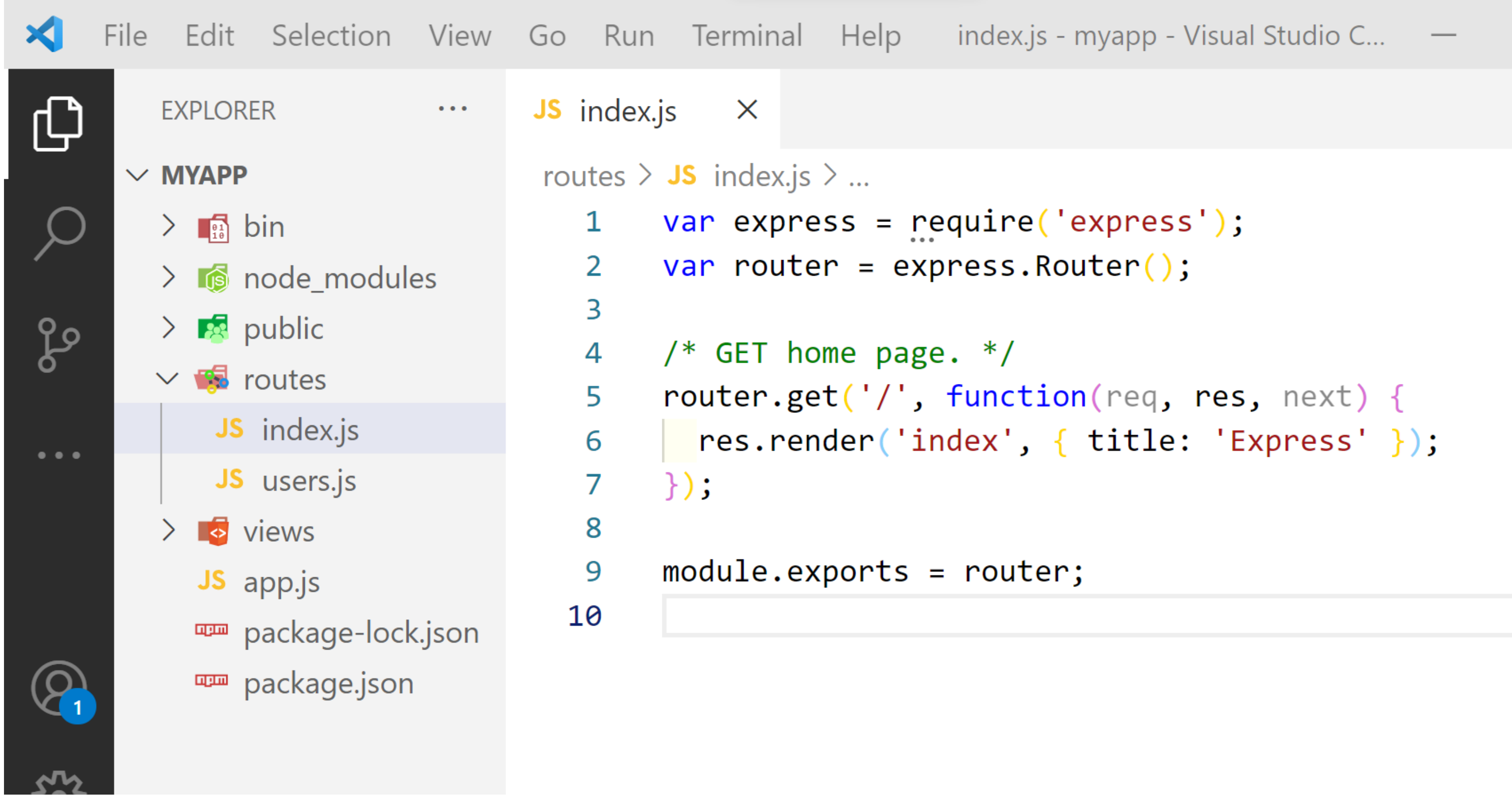
Folder Structure



```
MYAPP
  > bin
  > node_modules
  > public
  > routes
  > views
    app.js
    package-lock.json
    package.json
```

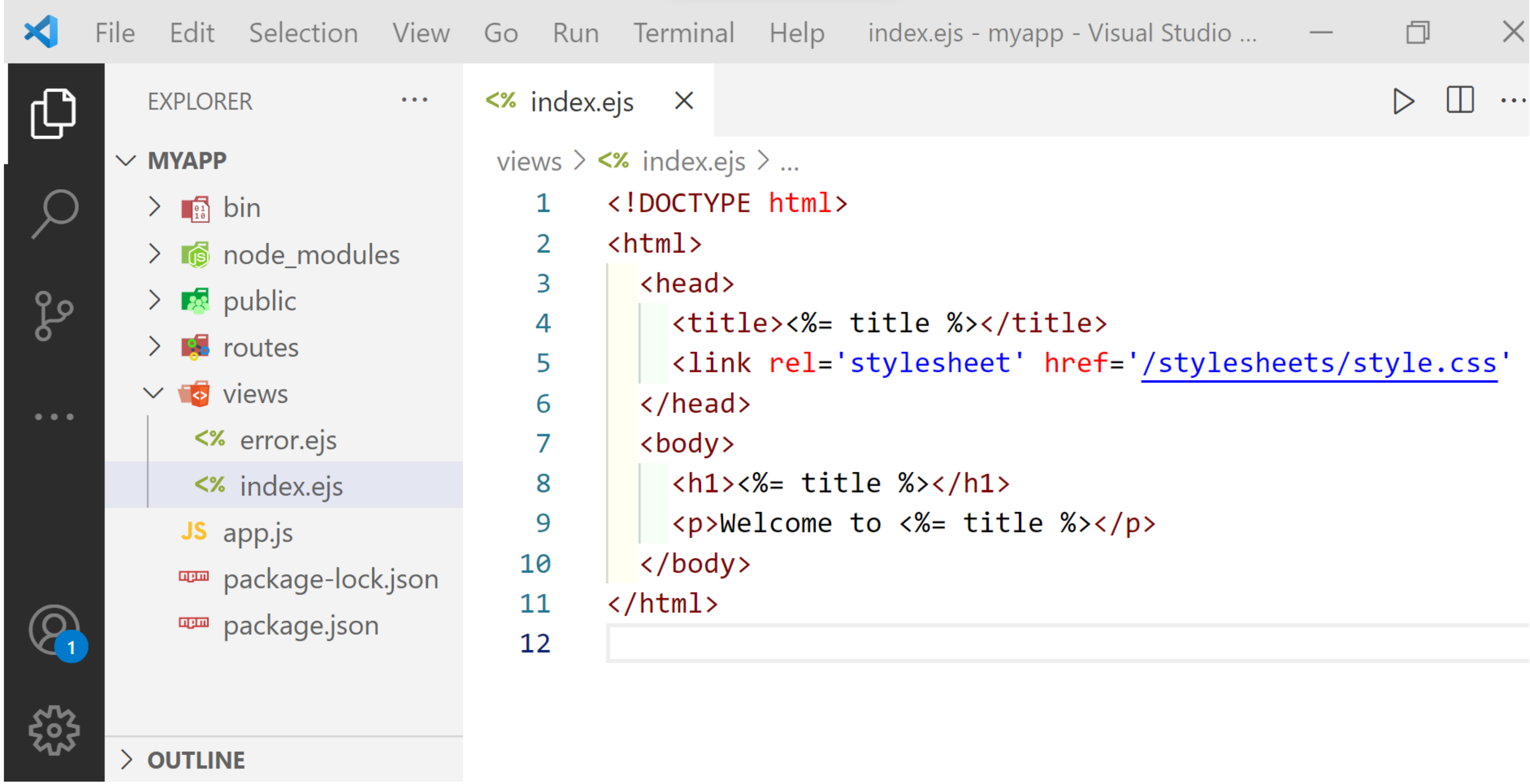
Navigation (Routing)

Default Index.js Route File



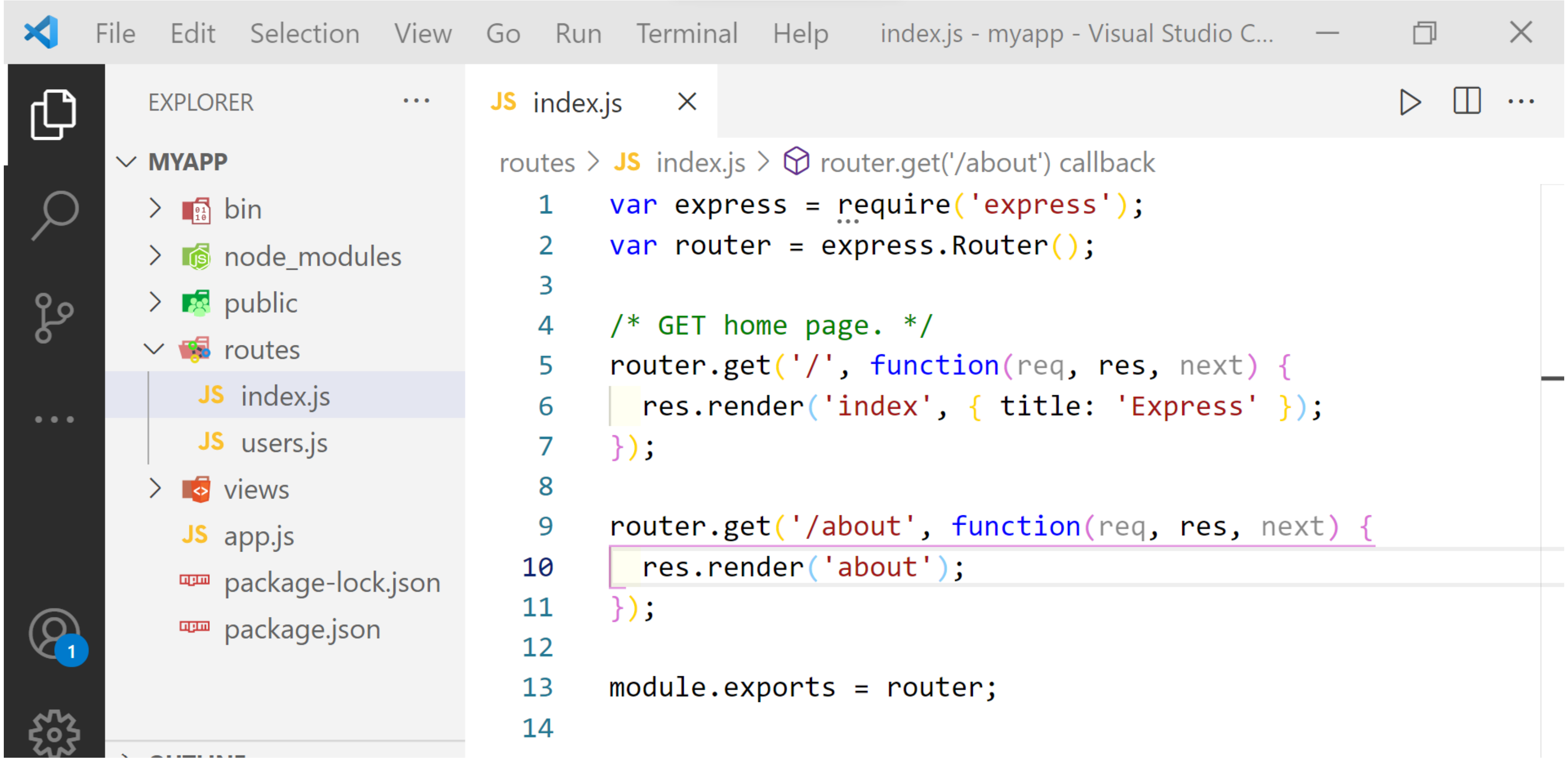
```
var express = require('express');
var router = express.Router();

/* GET home page. */
router.get('/', function(req, res, next) {
  res.render('index', { title: 'Express' });
});

module.exports = router;
```

Default Index.ejs file



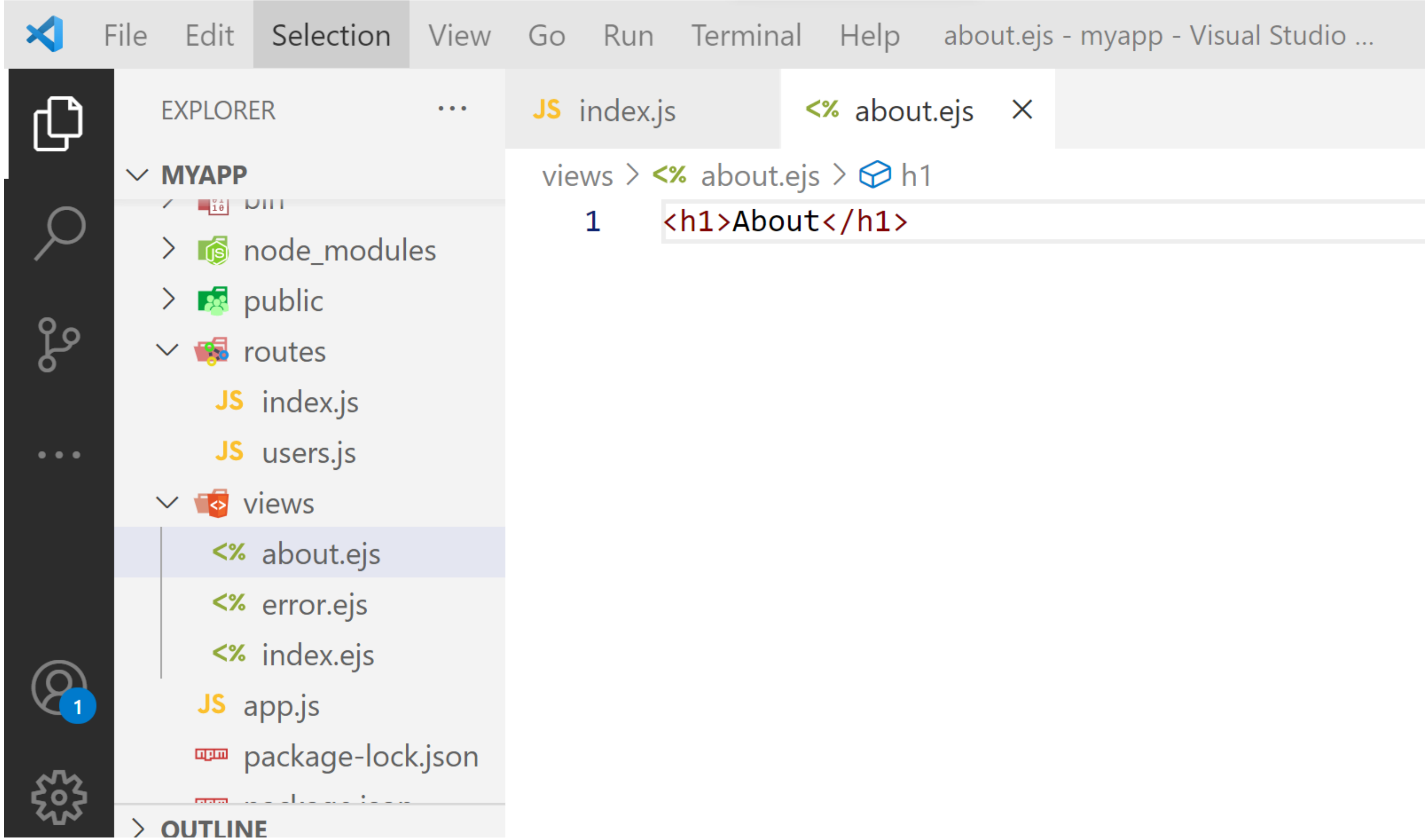
```
<!DOCTYPE html>
<html>
  <head>
    <title><%= title %></title>
    <link rel='stylesheet' href='/stylesheets/style.css'
  </head>
  <body>
    <h1><%= title %></h1>
    <p>Welcome to <%= title %></p>
  </body>
</html>
```

Create New Route named about in (Route->index.js)



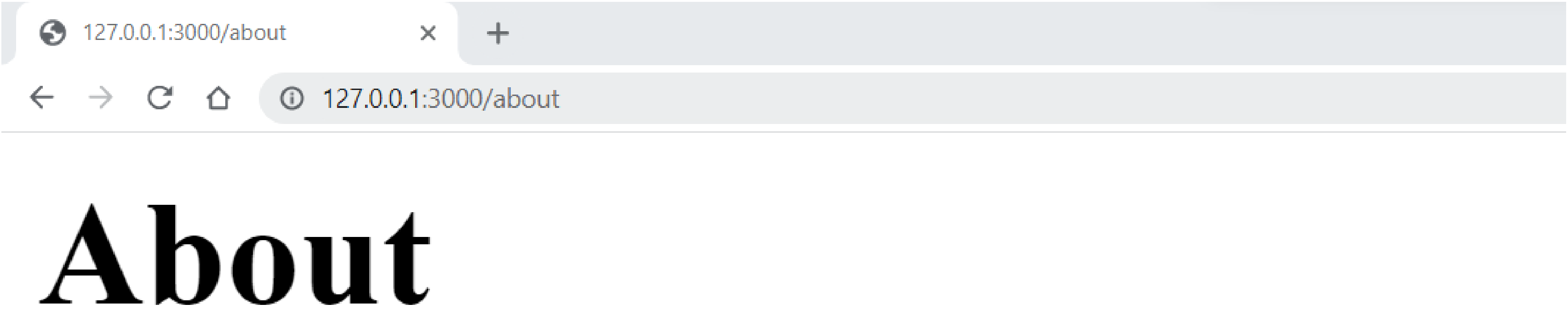
```
var express = require('express');
var router = express.Router();

/* GET home page. */
router.get('/', function(req, res, next) {
  res.render('index', { title: 'Express' });
});

router.get('/about', function(req, res, next) {
  res.render('about');
});

module.exports = router;
```

Create new **about.ejs** file in views



```
<h1>About</h1>
```

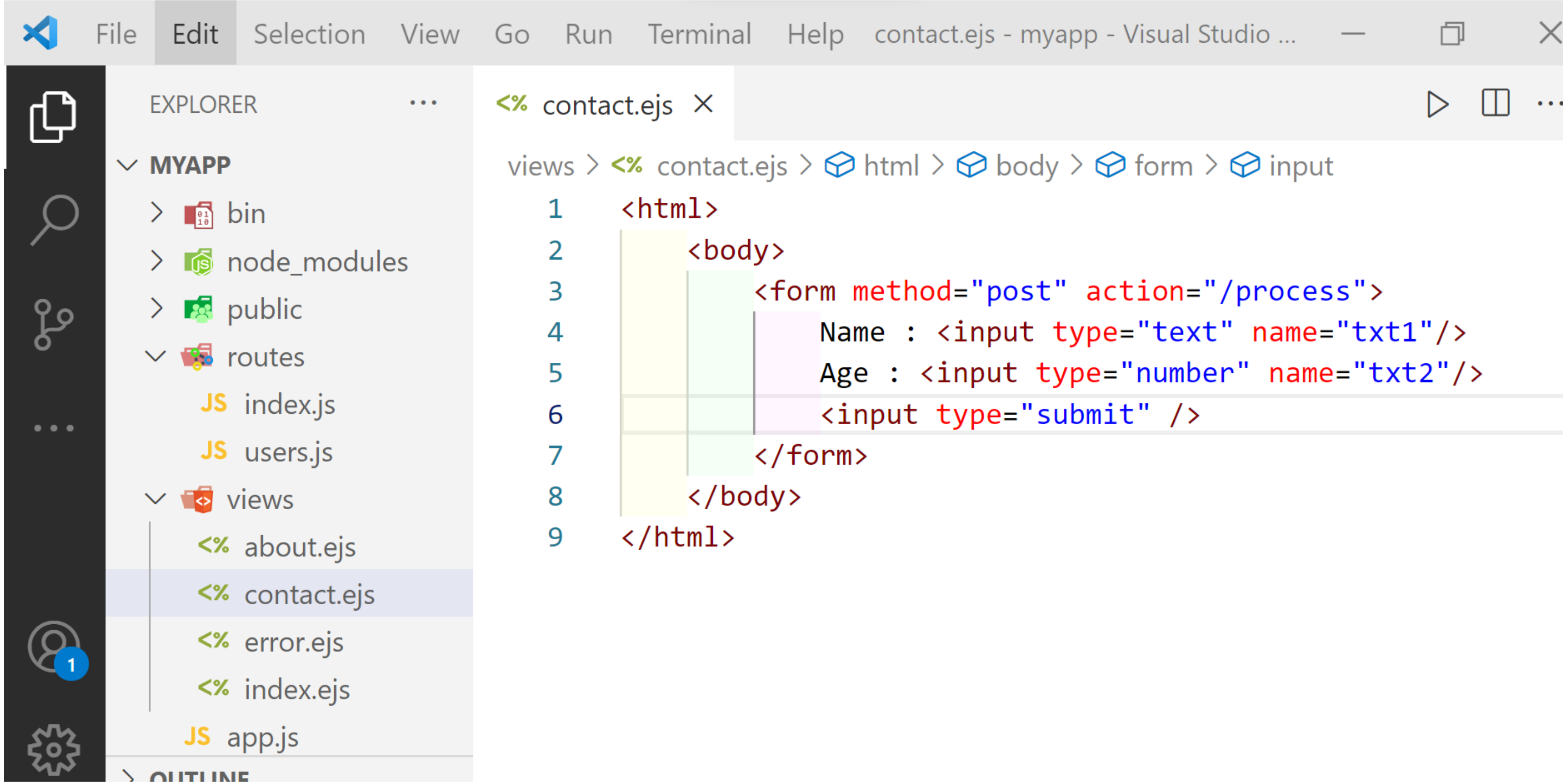
Open http:127.0.0.1:3000/about



About

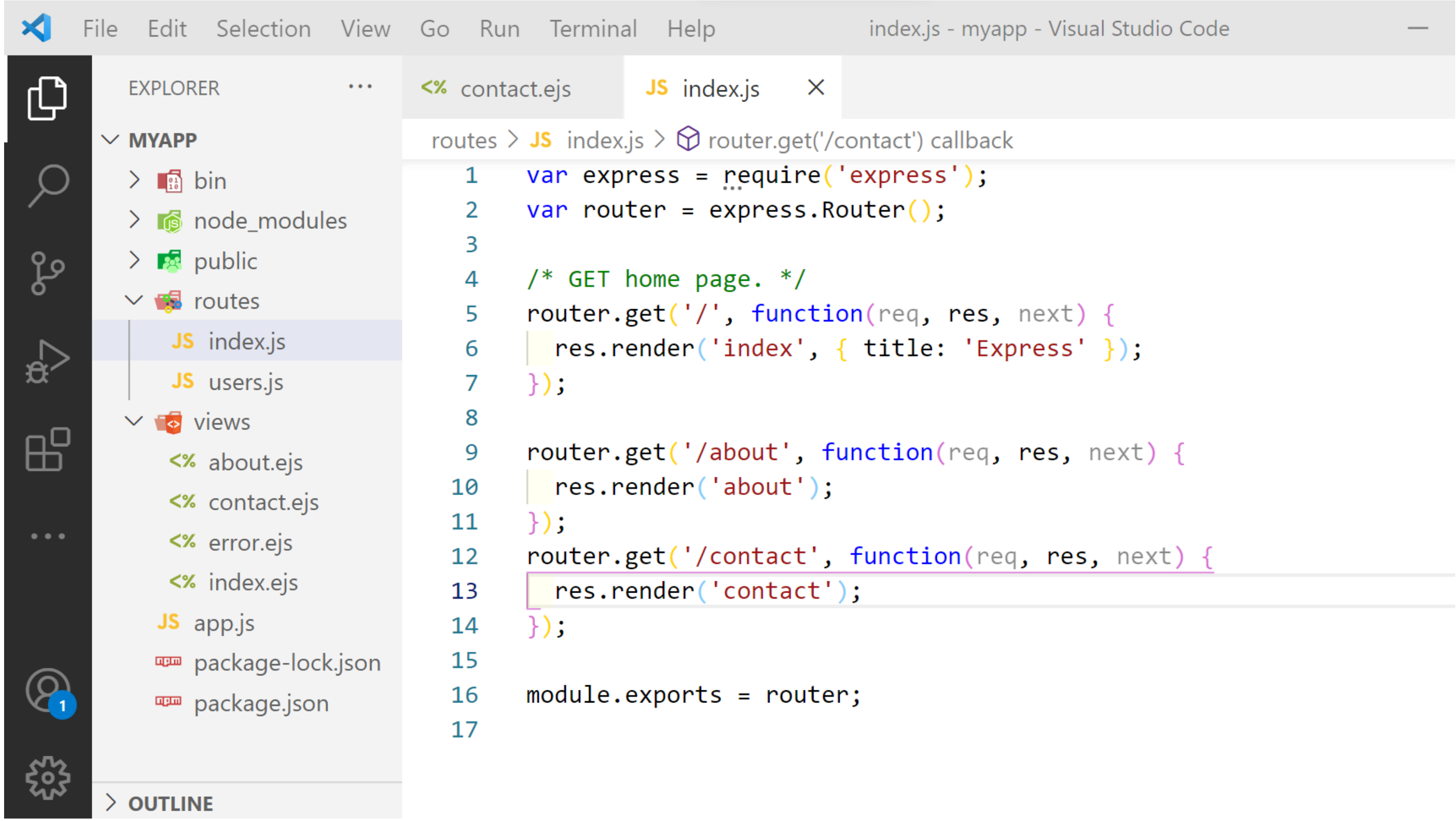
Get Post

Create contact.ejs file in Index.js Route

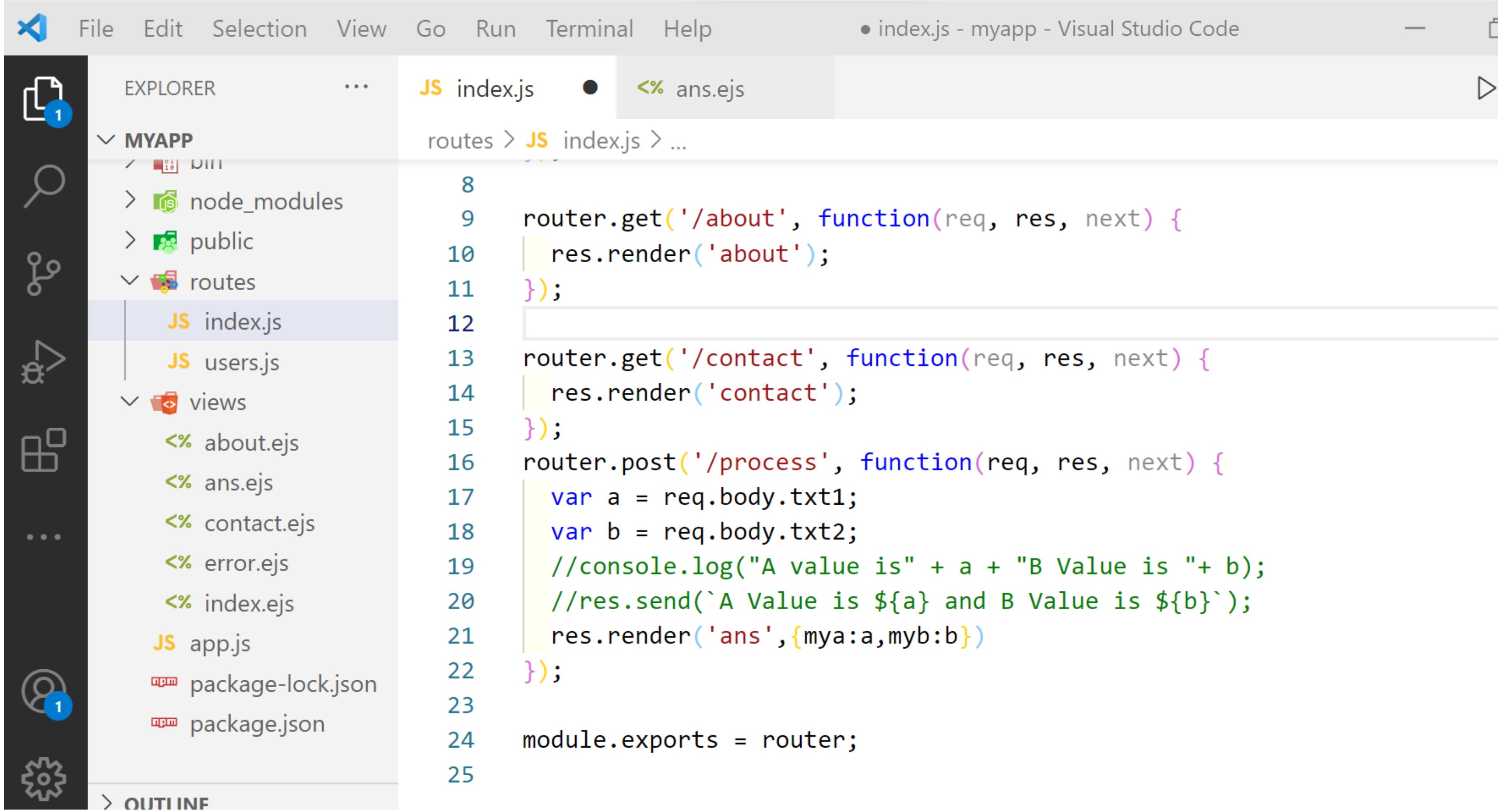


```
<html>
    <body>
        <form method="post" action="/process">
            Name : <input type="text" name="txt1"/>
            Age : <input type="number" name="txt2"/>
            <input type="submit" />
        </form>
    </body>
</html>
```

Create new Route called contact

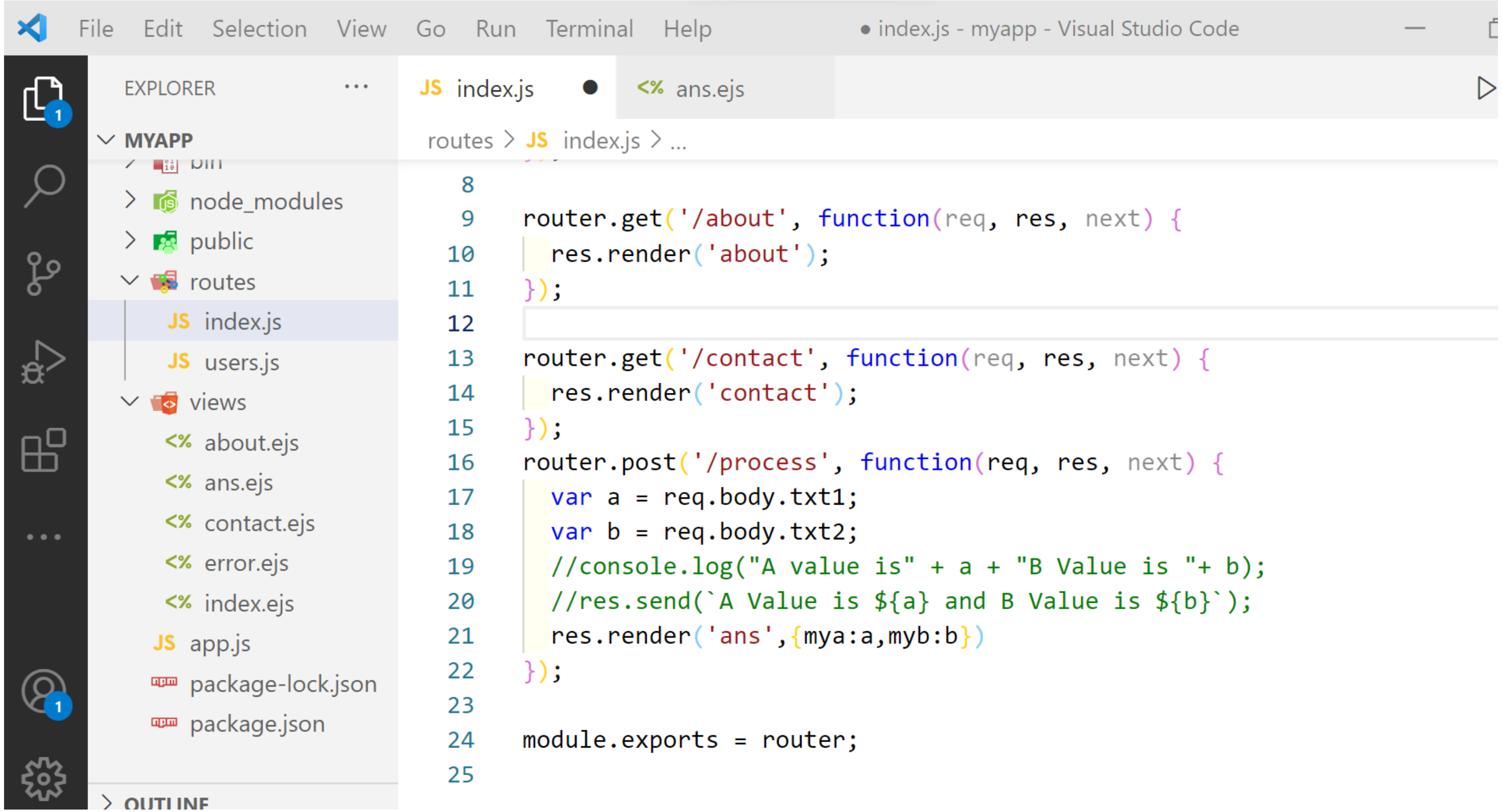


```
var express = require('express');
var router = express.Router();

/* GET home page. */
router.get('/', function(req, res, next) {
  res.render('index', { title: 'Express' });
});

router.get('/about', function(req, res, next) {
  res.render('about');
});
router.get('/contact', function(req, res, next) {
  res.render('contact');
});

module.exports = router;
```



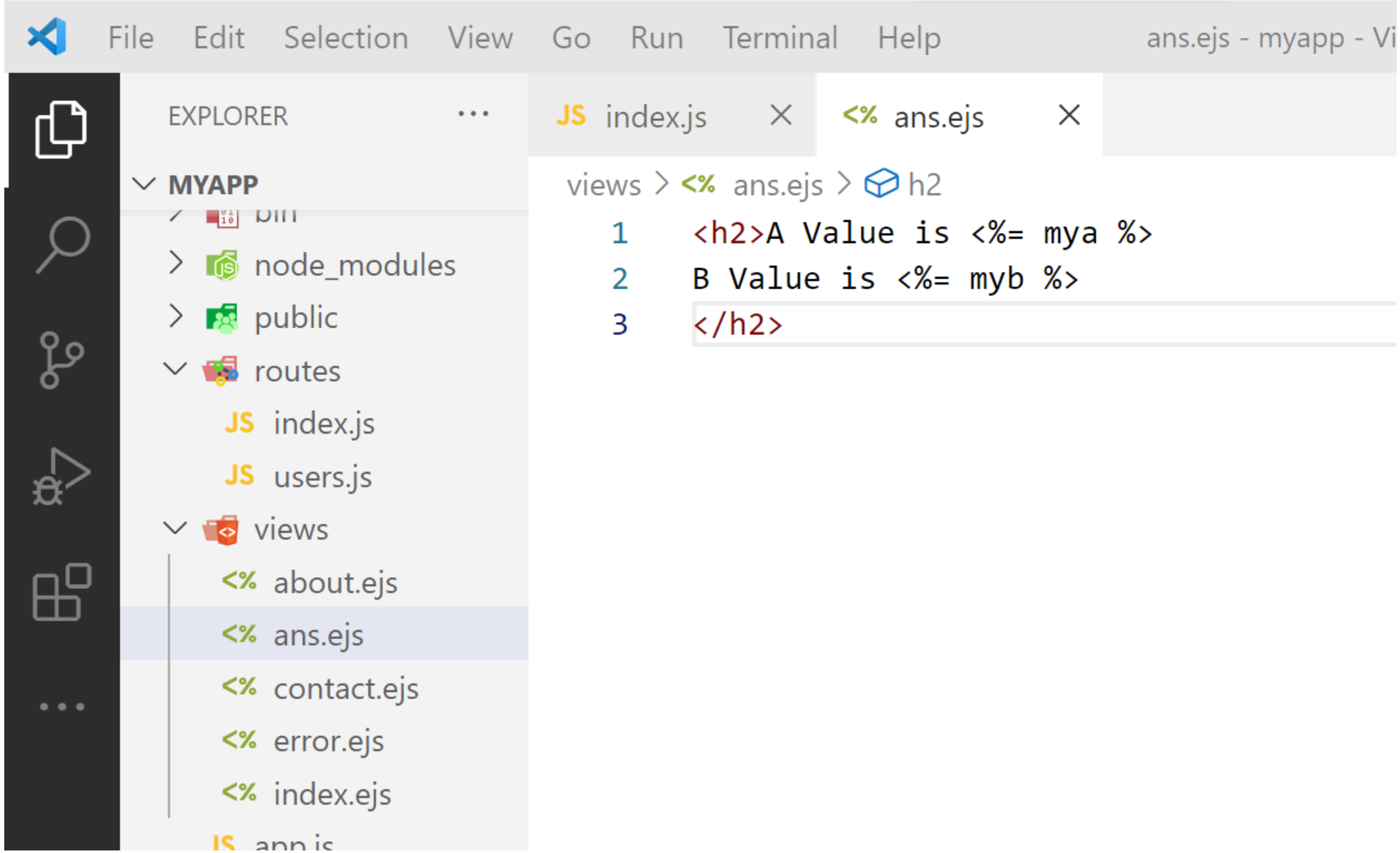
```

router.get('/about', function(req, res, next) {
  res.render('about');
});

router.get('/contact', function(req, res, next) {
  res.render('contact');
});
router.post('/process', function(req, res, next) {
  var a = req.body.txt1;
  var b = req.body.txt2;
  //console.log("A value is" + a + "B Value is "+ b);
  //res.send(`A Value is ${a} and B Value is ${b}`);
  res.render('ans',{mya:a,myb:b})
});

module.exports = router;

```

Create Process Route



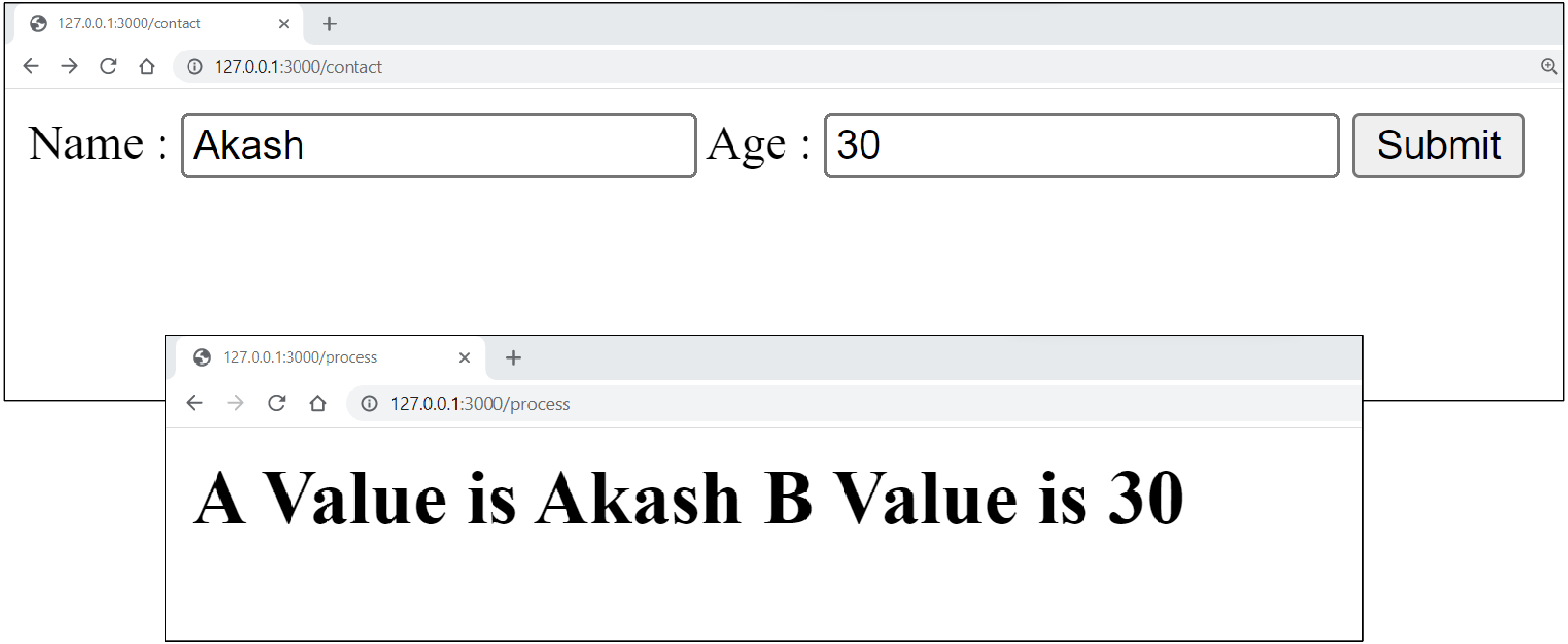
```
router.get('/about', function(req, res, next) {
  res.render('about');
});

router.get('/contact', function(req, res, next) {
  res.render('contact');
});
router.post('/process', function(req, res, next) {
  var a = req.body.txt1;
  var b = req.body.txt2;
  //console.log("A value is" + a + "B Value is "+ b);
  //res.send(`A Value is ${a} and B Value is ${b}`);
  res.render('ans',{mya:a,myb:b})
});

module.exports = router;
```

Create Ans.ejs file



```
<h2>A Value is <%= mya %>
B Value is <%= myb %>
</h2>
```

Output http:127.0.0.1:3000/contact

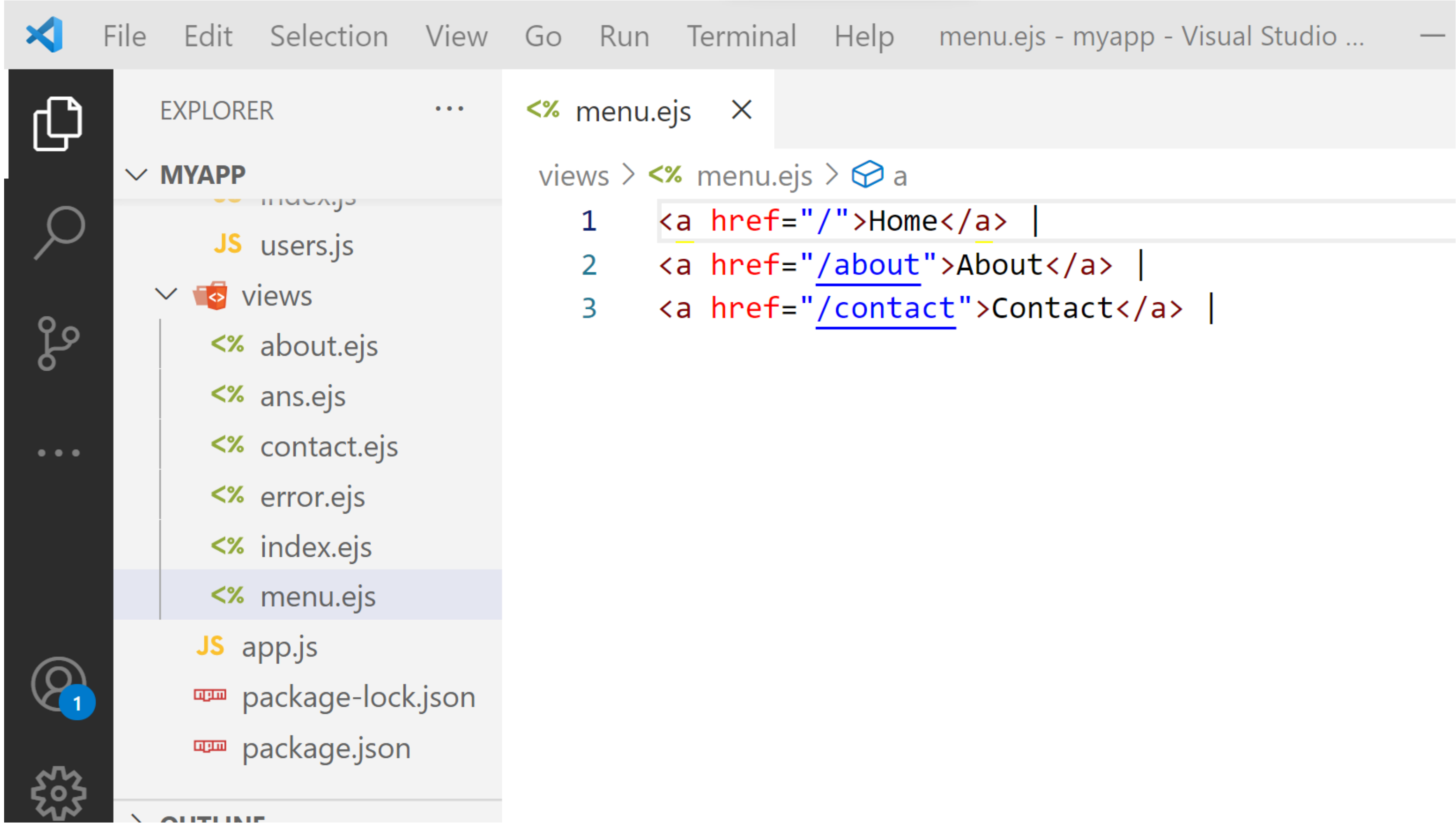


Name : Akash Age : 30 Submit

```
A Value is Akash B Value is 30
```

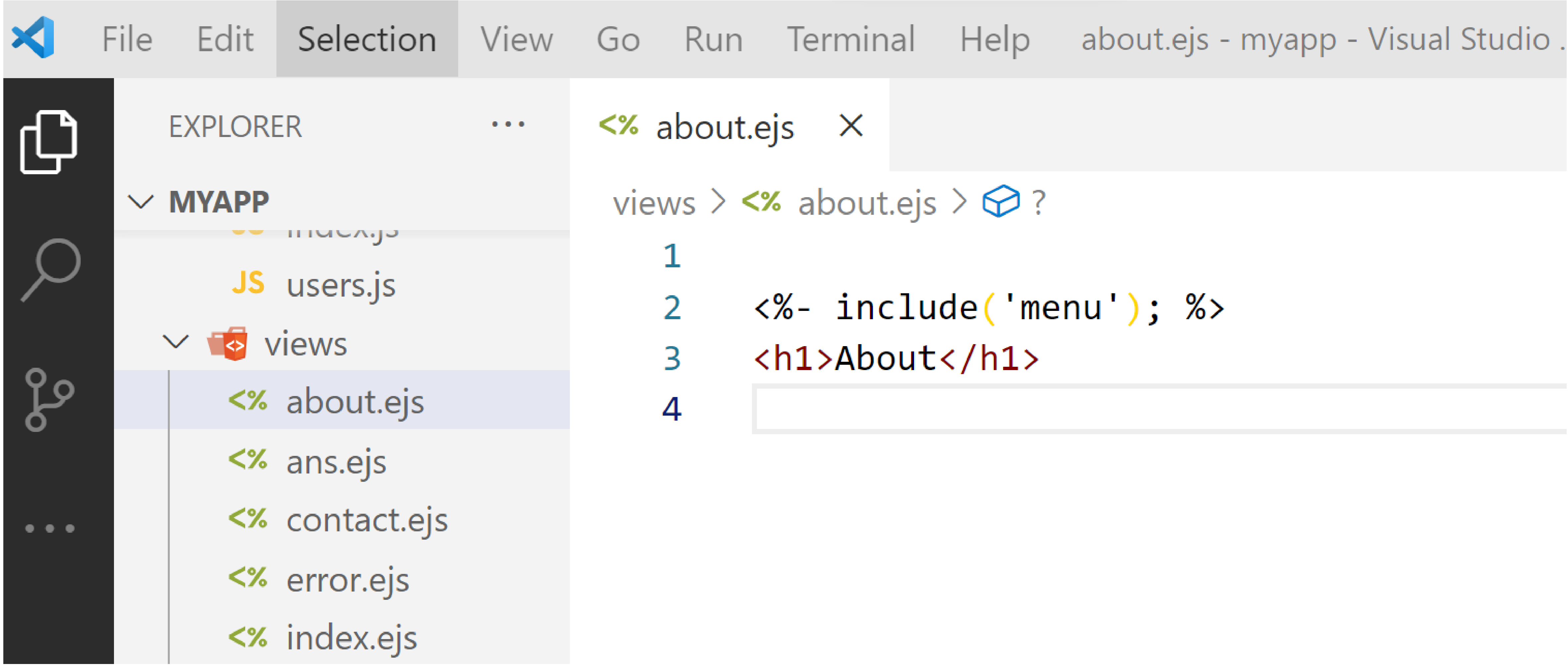
Common Menu (include)

Create new file name menu.ejs



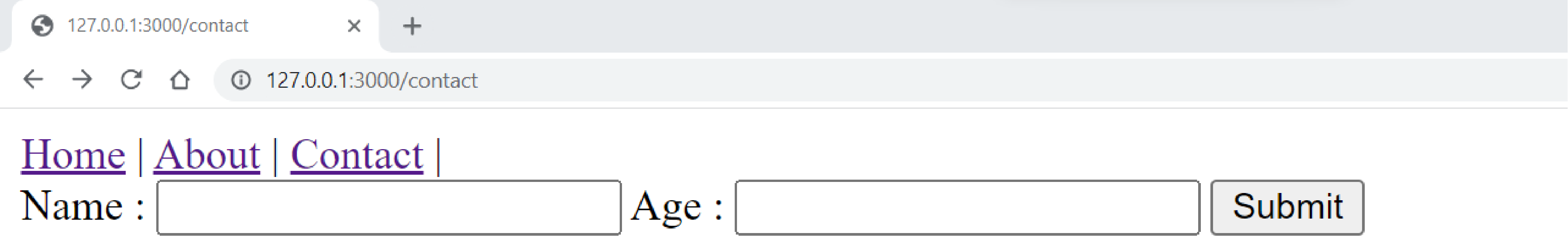
```
<a href="/">Home</a> |
<a href="/about">About</a> |
<a href="/contact">Contact</a> |
```

Add menu in every ejs file



```

<%- include('menu'); %>
<h1>About</h1>

```

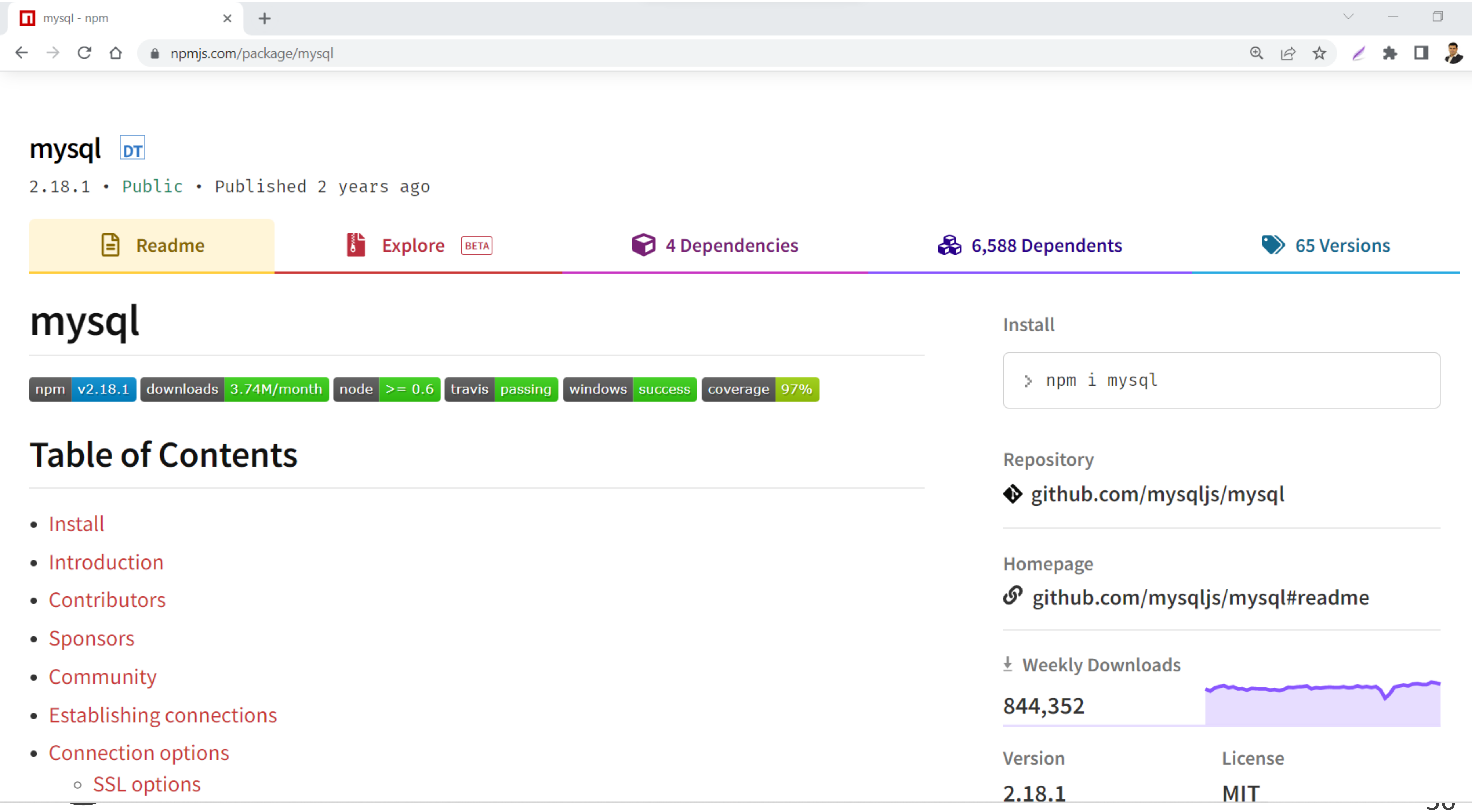
Menu Output



Home | About | Contact |

Name : Age :

Mysql



mysql DT

2.18.1 • Public • Published 2 years ago

mysql

Table of Contents

Install

```
> npm i mysql
```

Repository

github.com/mysqljs/mysql

Homepage

github.com/mysqljs/mysql#readme

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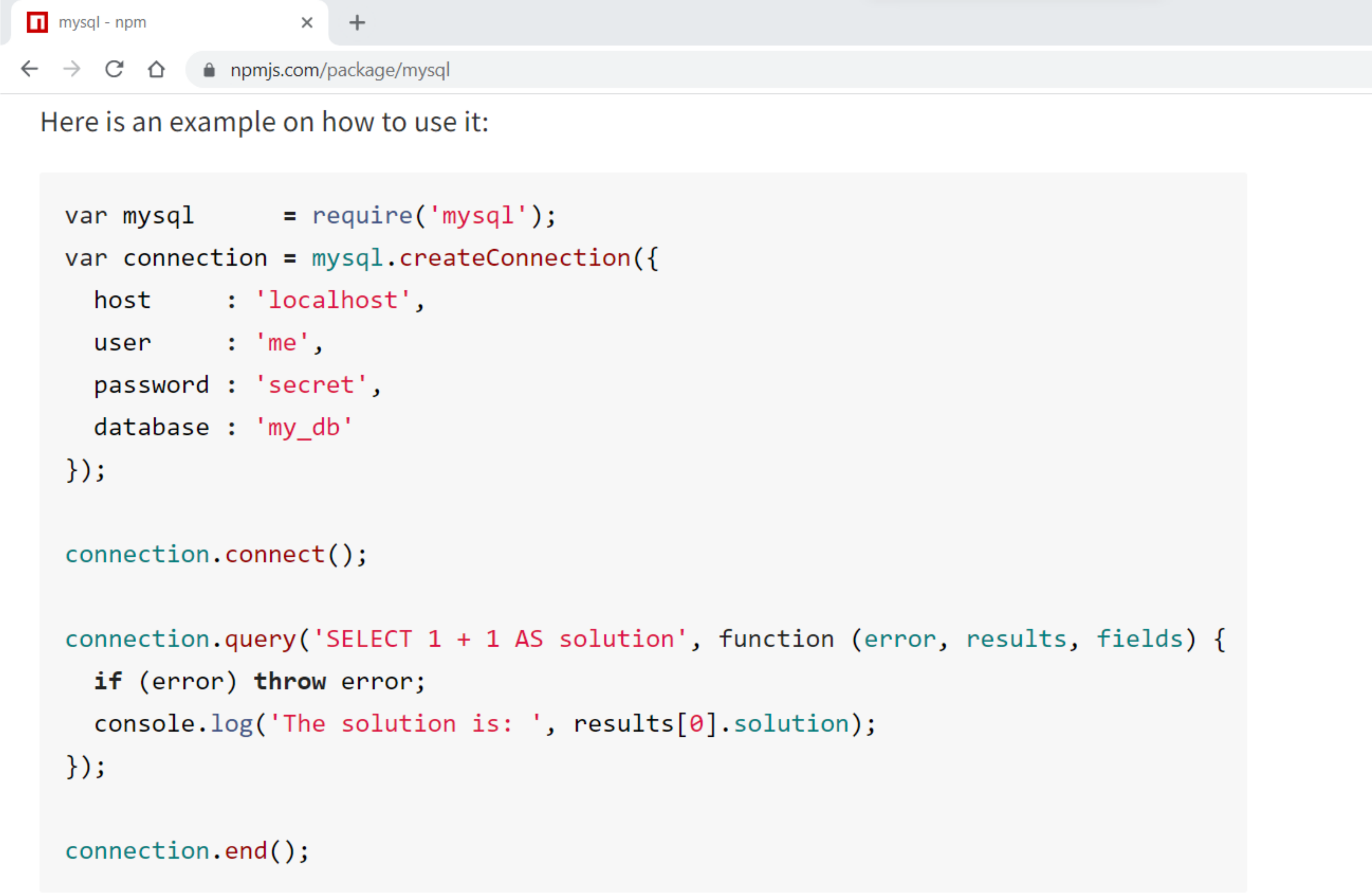
844,352

Version	License
2.18.1	MIT



Here is an example on how to use it:

```
var mysql      = require('mysql');
var connection = mysql.createConnection({
  host     : 'localhost',
  user     : 'me',
  password : 'secret',
  database : 'my_db'
});

connection.connect();

connection.query('SELECT 1 + 1 AS solution', function (error, results, fields) {
  if (error) throw error;
  console.log('The solution is: ', results[0].solution);
});

connection.end();
```

Create Database and Table in phpmyadmin

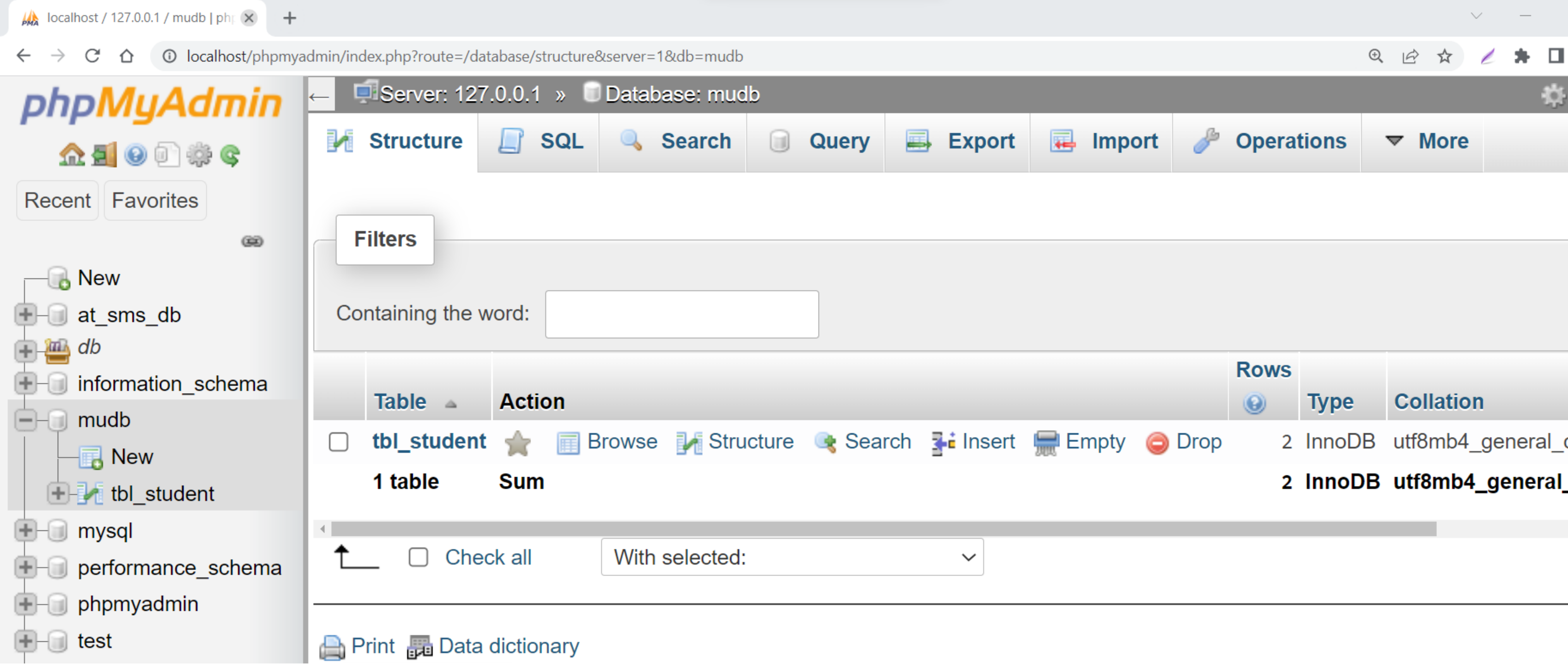
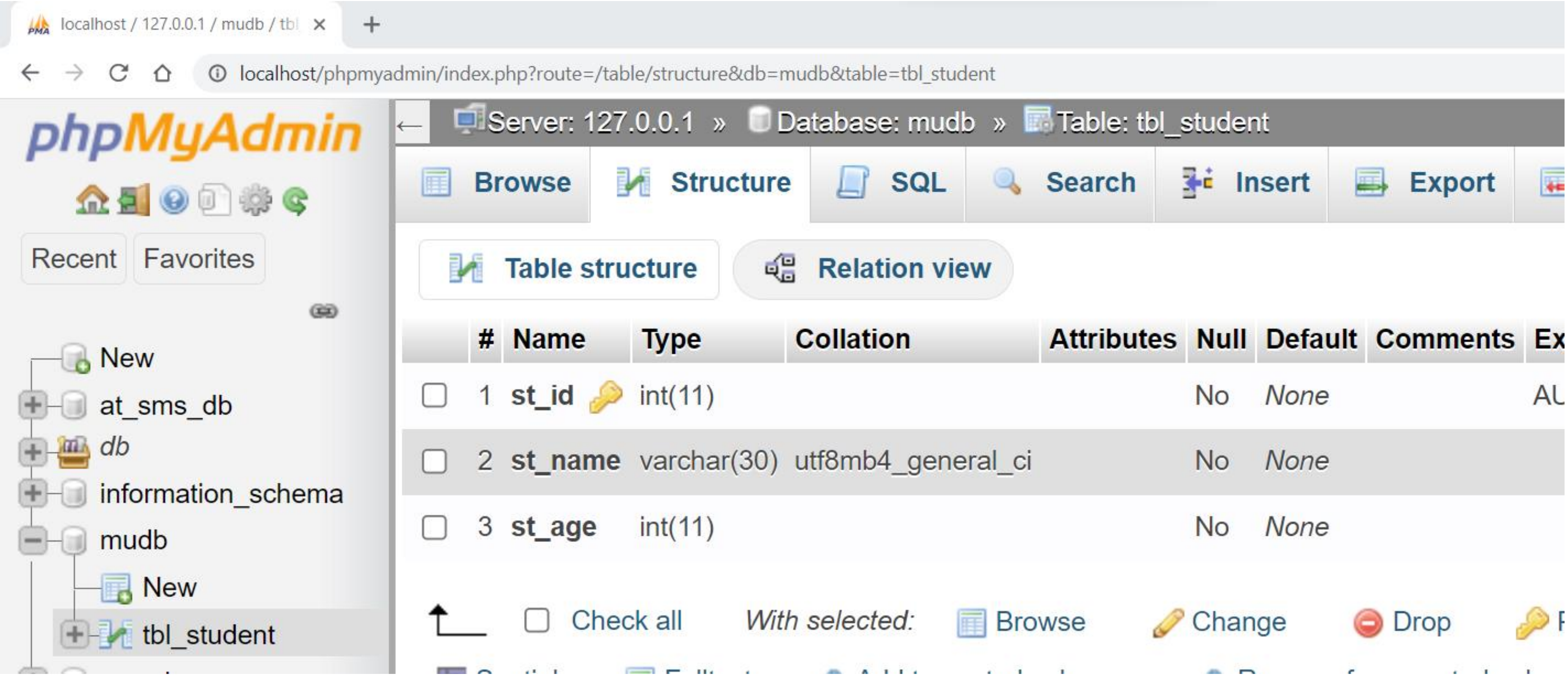


	Table	Action							Rows	Type	Collation
□	tbl_student	☆	Browse	Structure	Search	Insert	Empty	Drop	2	InnoDB	utf8mb4_general_
	1 table	**Sum**							**2**	**InnoDB**	**utf8mb4_general_**

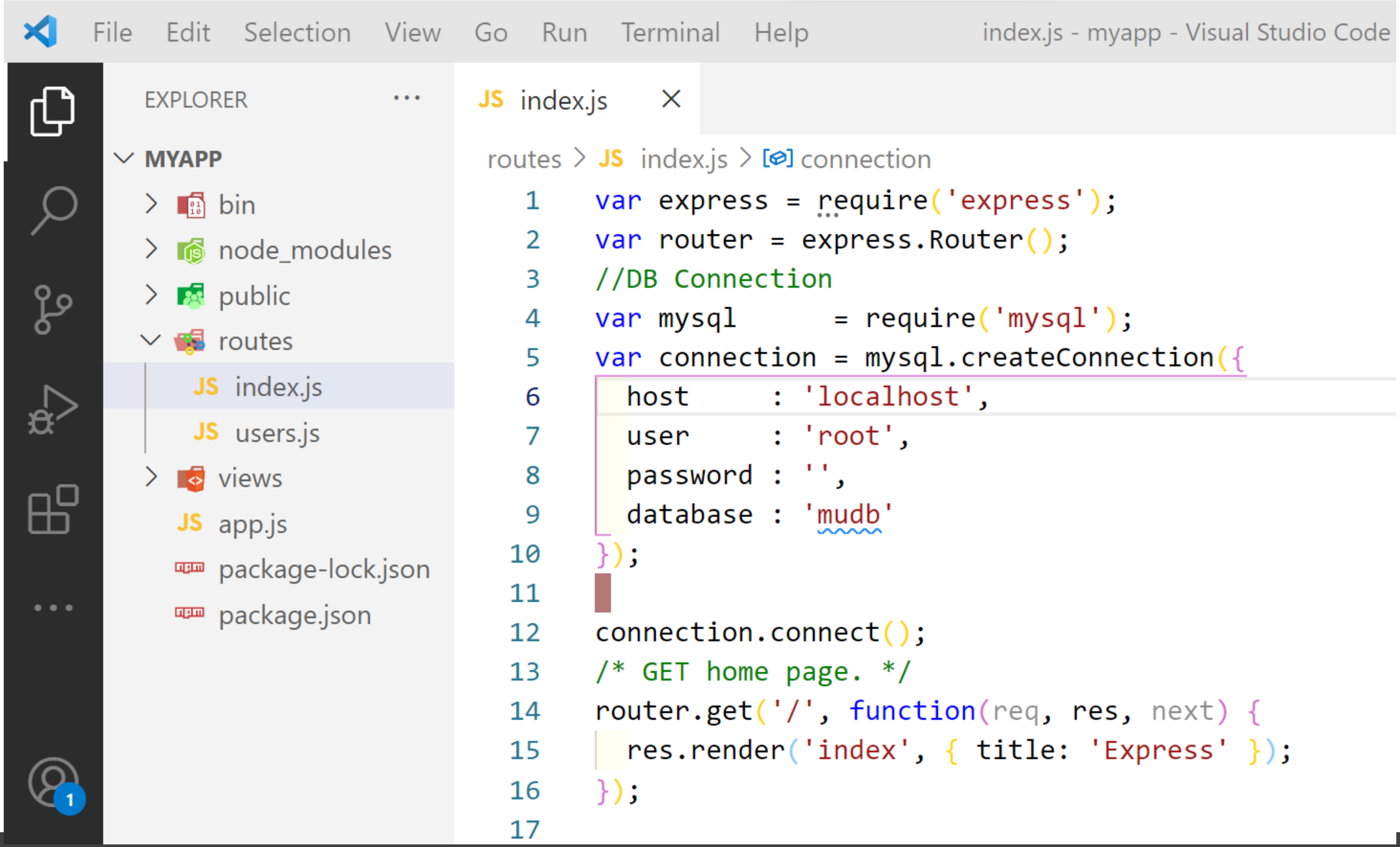
Tbl_student in phpmyadmin



localhost/phpmyadmin/index.php?route=/table/structure&db=mudb&table=tbl_student

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Ex
□	1	**st_id**	int(11)			No	*None*		AU
□	2	**st_name**	varchar(30)	utf8mb4_general_ci		No	*None*		
□	3	**st_age**	int(11)			No	*None*		

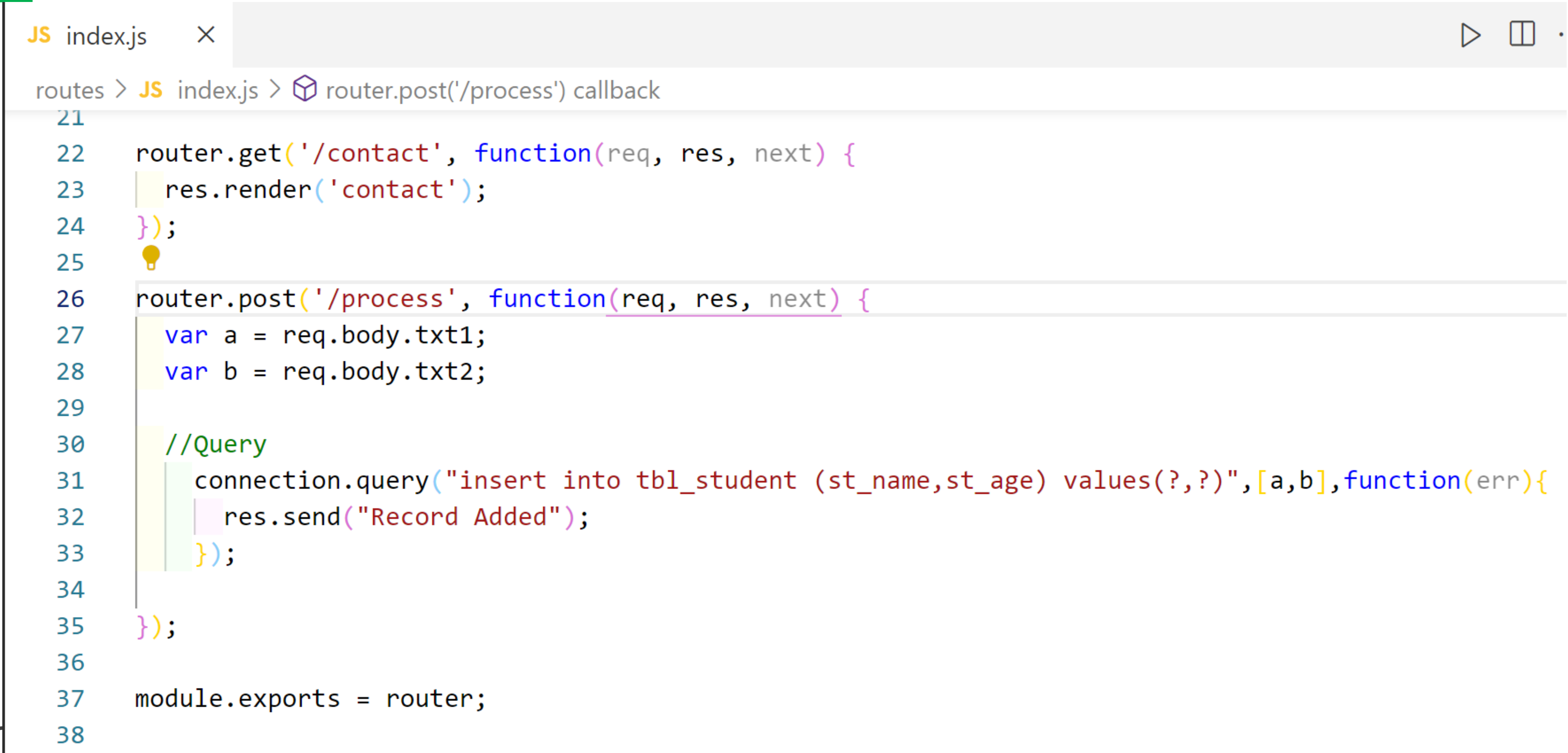
DB Connection



File Edit Selection View Go Run Terminal Help
index.js - myapp - Visual Studio Code
EXPLORER
MYAPP
bin
node_modules
public
routes
index.js
users.js
views
app.js
package-lock.json
package.json
index.js
routes > index.js > connection

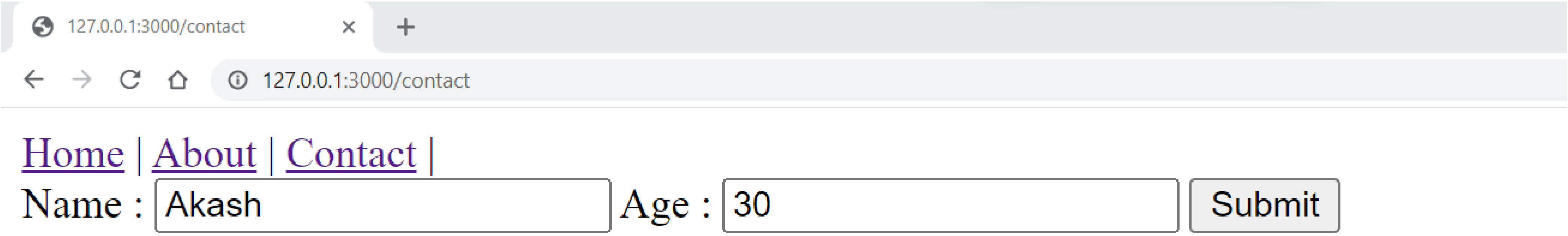
```javascript
var express = require('express');
var router = express.Router();
//DB Connection
var mysql       = require('mysql');
var connection = mysql.createConnection({
  host      : 'localhost',
  user      : 'root',
  password : '',
  database : 'mudb'
});

connection.connect();
/* GET home page. */
router.get('/', function(req, res, next) {
  res.render('index', { title: 'Express' });
});
```

Query



```

router.get('/contact', function(req, res, next) {
  res.render('contact');
});

router.post('/process', function(req, res, next) {
  var a = req.body.txt1;
  var b = req.body.txt2;

  //Query
    connection.query("insert into tbl_student (st_name,st_age) values(?,?)",[a,b],function(err){
      res.send("Record Added");
    });

});

module.exports = router;

```

Run Code



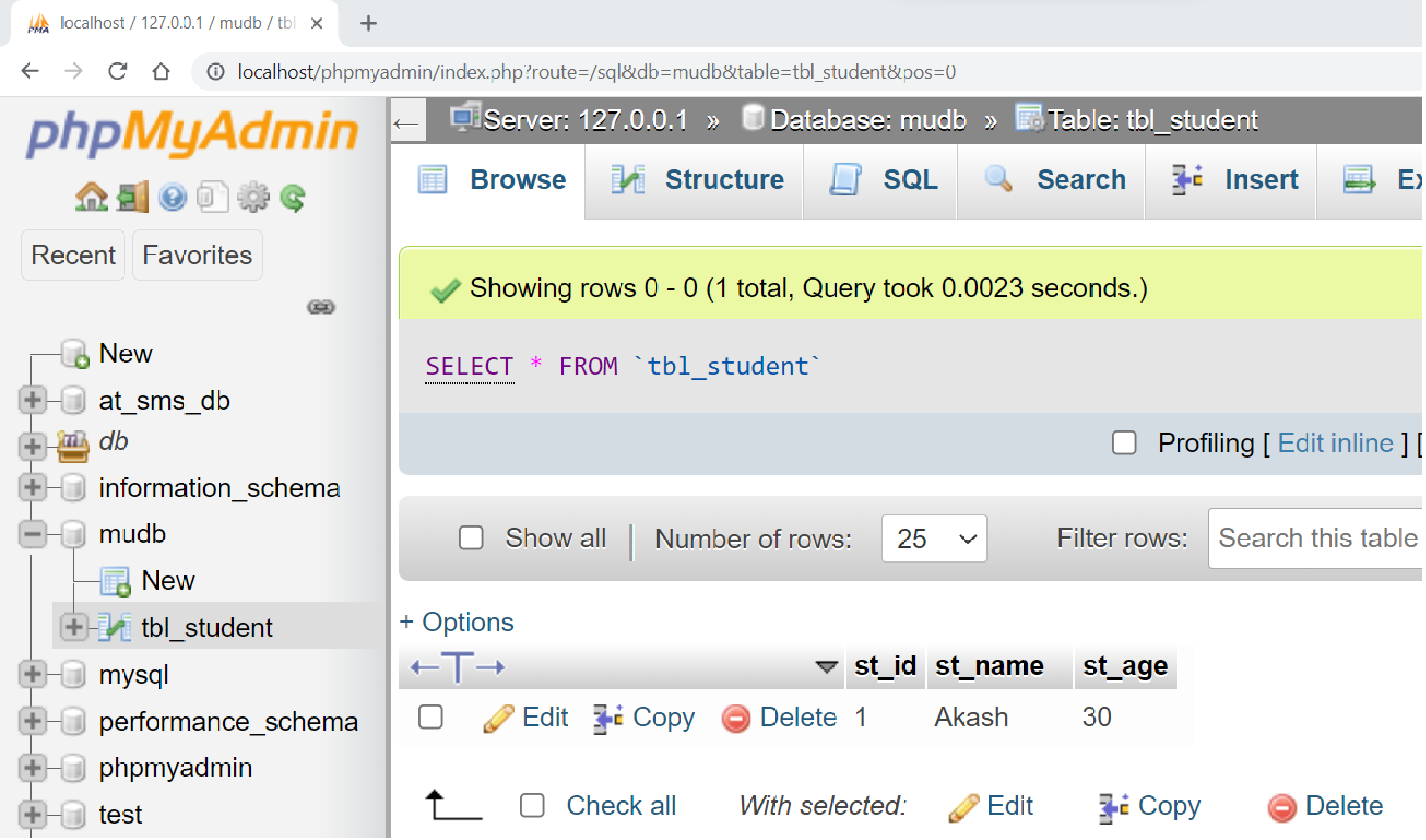
127.0.0.1:3000/contact

127.0.0.1:3000/contact

Home | About | Contact |

Name : Akash Age : 30 Submit

Output in Table



localhost/phpmyadmin/index.php?route=/sql&db=mudb&table=tbl_student&pos=0

✓ Showing rows 0 - 0 (1 total, Query took 0.0023 seconds.)

```
SELECT * FROM `tbl_student`
```

□ Show all | Number of rows: 25 | Filter rows: Search this table

	st_id	st_name	st_age
□ Edit Copy Delete	1	Akash	30

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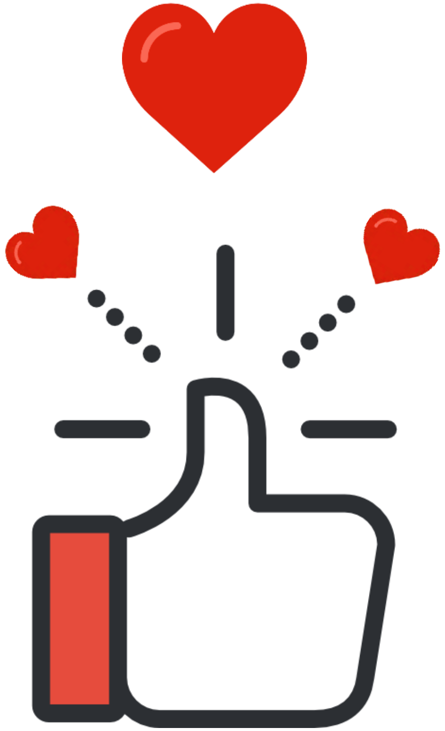
Sulekha

https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabad-contact-address/ahmedabad



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#AkashSir

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