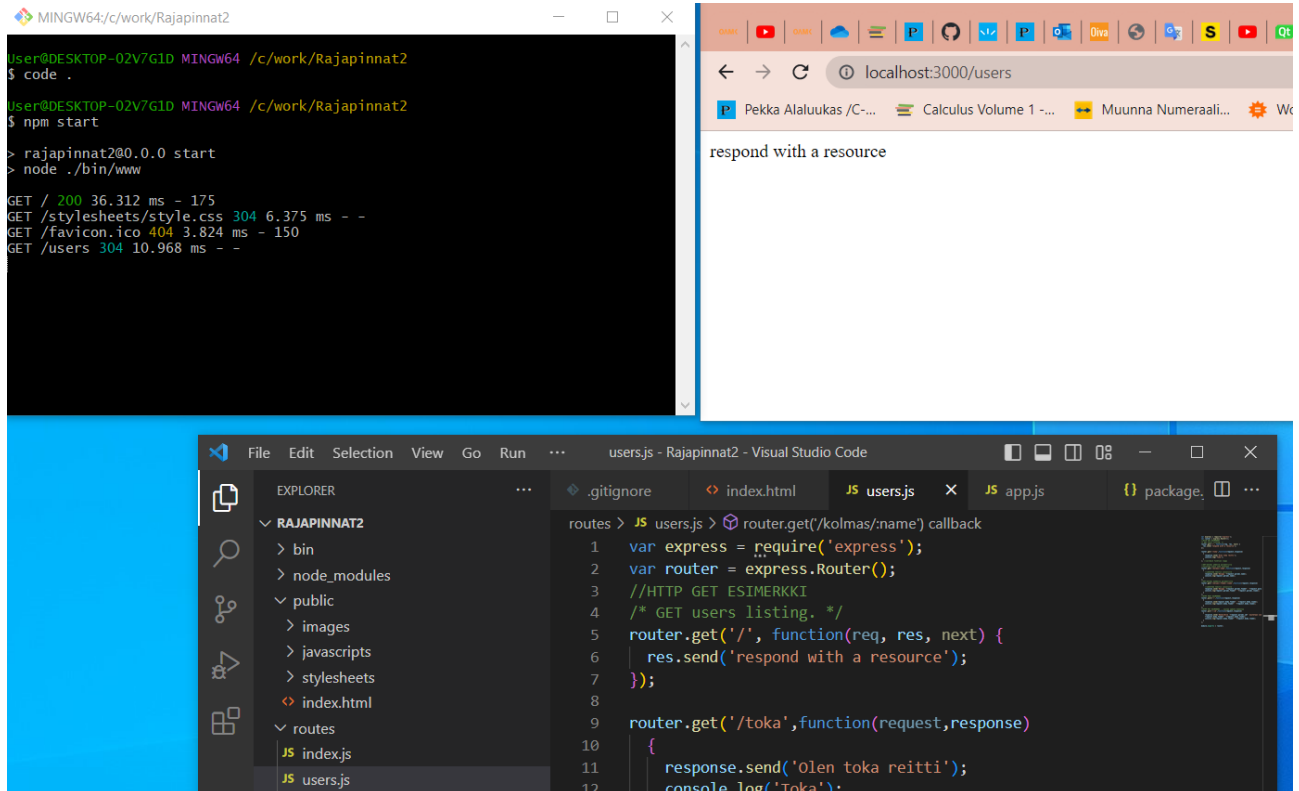


1. HTTP GET-metodi



The screenshot displays the initial setup for an HTTP GET request. On the left, a terminal window shows the server starting and responding to requests for /, /stylesheets/style.css, /favicon.ico, and /users. On the right, a browser window shows the response for localhost:3000/users, which is 'respond with a resource'. Below, a VS Code window shows the users.js file with the corresponding route handler.

```
user@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ code .

user@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ npm start

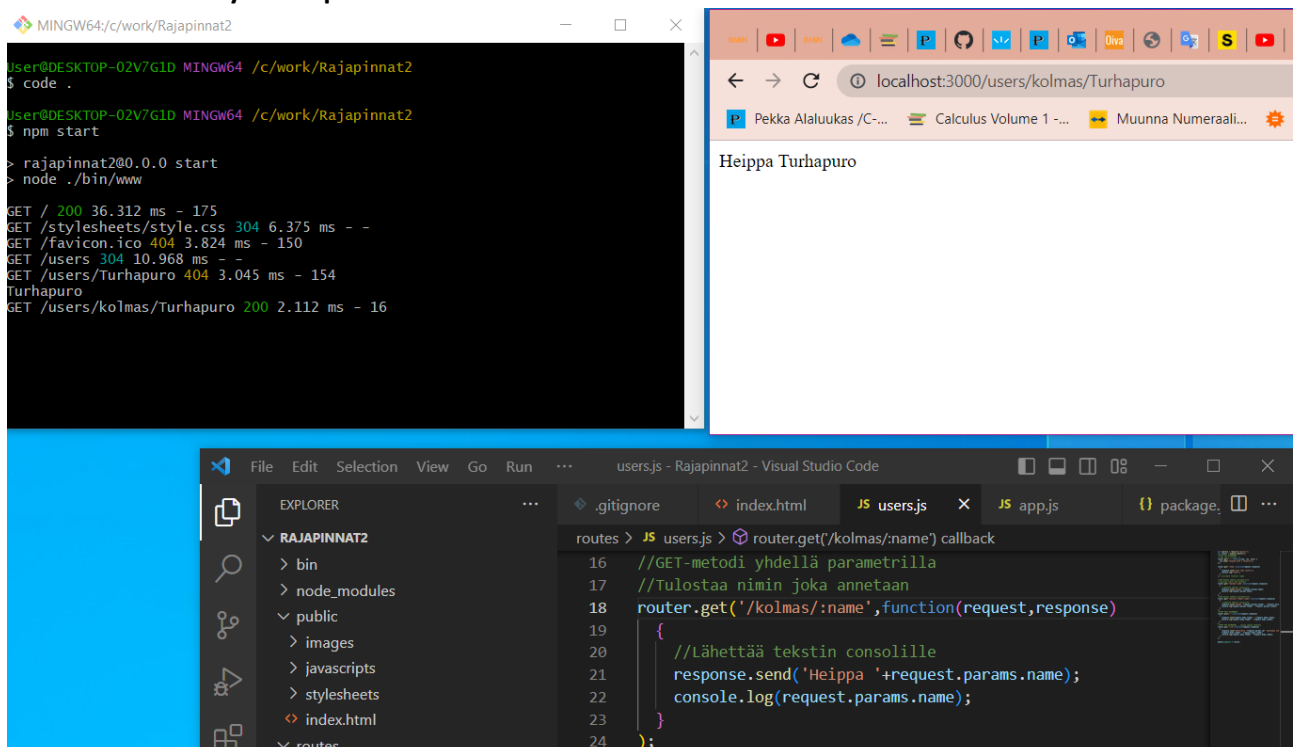
> rajapinnat2@0.0.0 start
> node ./bin/www

GET / 200 36.312 ms - 175
GET /stylesheets/style.css 304 6.375 ms - -
GET /favicon.ico 404 3.824 ms - 150
GET /users 304 10.968 ms - -
```

respond with a resource

```
routes > JS users.js > router.get('/kolmas/:name') callback
1 var express = require('express');
2 var router = express.Router();
3 //HTTP GET ESIMERKKI
4 /* GET users listing. */
5 router.get('/', function(req, res, next) {
6   res.send('respond with a resource');
7 });
8
9 router.get('/toka',function(request,response)
10 {
11   response.send('olen toka reitti');
12   console.log('Toka');
```

2. HTTP GET-metodi yhdellä parametrilla



The screenshot displays the second step of an HTTP GET request. On the left, a terminal window shows the server responding to requests for /users/Turhapuro and /users/kolmas/Turhapuro. On the right, a browser window shows the response for localhost:3000/users/kolmas/Turhapuro, which is 'Heippa Turhapuro'. Below, a VS Code window shows the updated route handler in users.js.

```
user@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ code .

user@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ npm start

> rajapinnat2@0.0.0 start
> node ./bin/www

GET / 200 36.312 ms - 175
GET /stylesheets/style.css 304 6.375 ms - -
GET /favicon.ico 404 3.824 ms - 150
GET /users 304 10.968 ms - -
GET /users/Turhapuro 404 3.045 ms - 154
Turhapuro
GET /users/kolmas/Turhapuro 200 2.112 ms - 16
```

Heippa Turhapuro

```
routes > JS users.js > router.get('/kolmas/:name') callback
16 //GET-metodi yhdellä parametrilla
17 //Tulostaa nimin joka annetaan
18 router.get('/kolmas/:name',function(request,response)
19 {
20   //Lähetää tekstin consolille
21   response.send('Heippa '+request.params.name);
22   console.log(request.params.name);
23 }
24 );
```

3. HTTP GET-metodi kahdella parametrilla

The screenshot displays a development environment with a terminal, a web browser, and a code editor.

Terminal (MINGW64):

```
User@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ code .
User@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ npm start
> rajapinnat2@0.0.0 start
> node ./bin/www

GET / 200 36.312 ms - 175
GET /stylesheets/style.css 304 6.375 ms - -
GET /favicon.ico 404 3.824 ms - 150
GET /users 304 10.968 ms - -
GET /users/Turhapuro 404 3.045 ms - 154
Turhapuro
GET /users/kolmas/Turhapuro 200 2.112 ms - 16
Aku Anikka
GET /users/neljas/Aku/Anikka 304 2.066 ms - -
```

Browser (localhost:3000):

URL: `localhost:3000/users/neljas/Aku/Anikka`

Response: `Heippa Aku Anikka`

Visual Studio Code (users.js):

```
routes > JS users.js > router.get('/kolmas/:name') callback
25 //GET-metodi kahdella parametrilla
26 router.get('/:neljas/:fname/:lname',function(request,response)
27 {
28 //Lähetetään tekstin consolelle
29 response.send('Heippa '+request.params.fname+' '+request.pa
30 console.log(request.params.fname+' '+request.params.lname);
31 }
32 );
```

4. HTTP POST-metodi

The screenshot displays a development environment with a terminal, a web browser, and a code editor.

Terminal (MINGW64):

```
User@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ code .
User@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ npm start
> rajapinnat2@0.0.0 start
> node ./bin/www

GET / 200 36.312 ms - 175
GET /stylesheets/style.css 304 6.375 ms - -
GET /favicon.ico 404 3.824 ms - 150
GET /users 304 10.968 ms - -
GET /users/Turhapuro 404 3.045 ms - 154
Turhapuro
GET /users/kolmas/Turhapuro 200 2.112 ms - 16
Aku Anikka
GET /users/neljas/Aku/Anikka 304 2.066 ms - -
GET / 200 2.838 ms - 175
PUT /users/ 404 44.102 ms - 145
PUT /users/ 404 2.293 ms - 145
Roope Anikka
POST /users/ 200 2.399 ms - 11
```

Visual Studio Code (users.js):

```
routes > JS users.js > router.get('/kolmas/:name') callback
33 //HTTP POST ESIMERKKI
34 router.post('/',function(request,response)
35 {
36 response.send(request.body.fname+' '+request.body.lname);
37 console.log(request.body.fname+' '+request.body.lname);
38 }
39 );
40 //HTTP PUT ESIMERKKI ...vastaa update kommentoa
41 router.put('/:id',function(request,response)
42 {
43 response.send('Henkilölle '+request.params.id+' muutetaan n
44 +request.body.fname+' '+request.body.lname);
45 console.log(request.body.fname+' '+request.body.lname);
46 }
```

Browser (localhost:3000/users/):

Method: `POST`

Params: `fname` (Roope), `lname` (Anikka)

Body: `1 Roope Anikka`

5. HTTP PUT-metodi

MINGW64/c/work/Rajapinnat2

```
user@DESKTOP-02V7G1D MINGW64 /c/work/Rajapinnat2
$ npm start
> rajapinnat2@0.0.0 start
> node ./bin/www

GET / 200 36.312 ms - 175
GET /stylesheets/style.css 304 6.375 ms - -
GET /favicon.ico 404 3.824 ms - 150
GET /users 304 10.968 ms - -
GET /users/Turhapuro 404 3.045 ms - 154
Turhapuro
GET /users/kolmas/Turhapuro 200 2.112 ms - 16
Aku Anikka
GET /users/meljas/Aku/Anikka 304 2.066 ms - -
GET / 200 2.838 ms - 175
PUT /users/ 404 44.102 ms - 145
PUT /users/ 404 2.293 ms - 145
Roope Anikka
POST /users/ 200 2.399 ms - 11
Pelle Peloton
PUT /users/1 200 2.240 ms - 45
```

Workspaces API Network Explore

New Import Overview Overview PUT local Rp2 GET (bas) + Rp2 Upgrade

localhost:3000/users/1 Save

PUT localhost:3000/users/1

Params Auth Headers (9) Body Pre-req. Tests Settings

x-www-form-urlencoded

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> fname	Pelle	
<input checked="" type="checkbox"/> lname	Peloton	
Key	Value	Description

Body 200 OK 14 ms 273 B

Pretty Raw Preview Visualize HTML

```
1 Henkilölle 1 muutetaan nimeksi Pelle Peloton
```

File Edit Selection View Go Run users.js - Rajapinnat2 - Visual Studio Code

EXPLORER RAJAPINNAT2

- bin
- node_modules
- public
- images
- javascripts
- stylesheets
- index.html
- routes
- index.js
- users.js
- .gitignore

routes > JS users.js > router.get(/kolmas/name) callback

```
40 //HTTP PUT ESIMERKKI ...vastaa update kommentoa
41 router.put('/:id',function(request,response)
42 {
43   response.send('Henkilölle '+request.params.id+' muutetaan n
44   +request.body.fname+' '+request.body.lname);
45   console.log(request.body.fname+' '+request.body.lname);
46 }
47 );
48
49 module.exports = router;
50
```