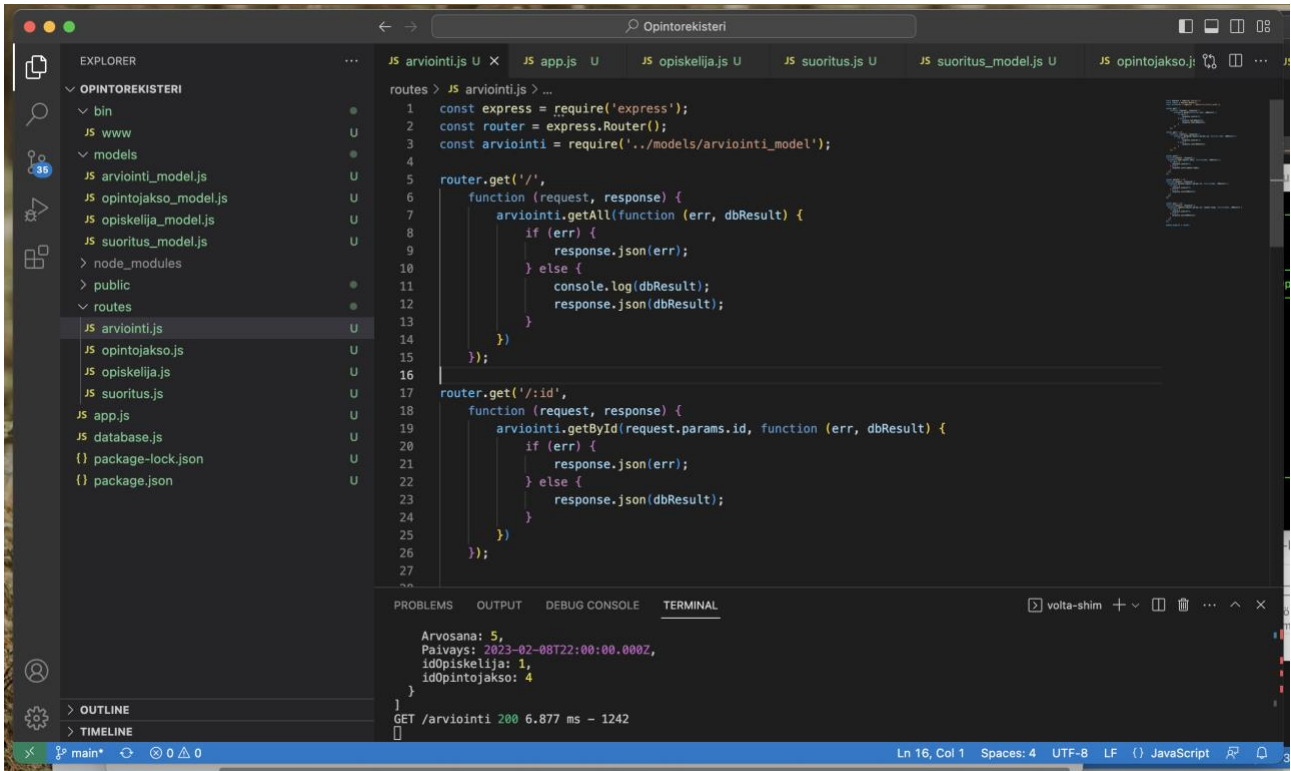


## Opiskelijatietokannan luonti ja testaus (Code, Postman)

Yleisnäkymä Codesta:



```
routes > JS arviointi.js > ...
1  const express = require('express');
2  const router = express.Router();
3  const arviointi = require('../models/arviointi_model');
4
5  router.get('/',
6    function (request, response) {
7      arviointi.getAll(function (err, dbResult) {
8        if (err) {
9          response.json(err);
10         } else {
11           console.log(dbResult);
12           response.json(dbResult);
13         }
14       });
15     });
16
17 router.get('/:id',
18   function (request, response) {
19     arviointi.getId(request.params.id, function (err, dbResult) {
20       if (err) {
21         response.json(err);
22       } else {
23         response.json(dbResult);
24       }
25     });
26   });
27
```

Arvosana: 5,  
Paivays: 2023-02-08T22:00:00.000Z,  
idOpiskelija: 1,  
idOpintojakso: 4

GET /arviointi 200 6.877 ms - 1242

## Opiskelija:

GET localhost:3000/opiskelija Send

Params Auth Headers (7) **Body** Pre-req. Tests Settings Cookies

x-www-form-urlencoded

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body 200 OK 53 ms 900 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "idOpiskelija": 1,
3   "Etunimi": "Aku",
4   "Sukunimi": "Ankka",
5   "Opiskelijanumero": "1313",
6   "Luokkatunnus": "TTE3SNH",
7   "Osoite": "Ankkalinna 313"
8 },
9 {
10  "idOpiskelija": 2,
11  "Etunimi": "Roope",
12  "Sukunimi": "Ankka",
13  "Opiskelijanumero": "1414",
14  "Luokkatunnus": "TTE3SNH",
15  "Osoite": "Ankkalinna 314"
16 },
17 }
```

## Opintojakso:

GET localhost:3000/opintojakso Send

Params Auth Headers (7) **Body** Pre-req. Tests Settings Cookies

x-www-form-urlencoded

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body 200 OK 17 ms 831 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "idOpintojakso": 3,
3   "Nimi": "Tietokannat",
4   "Koodi": "T20041",
5   "Laaajuus": 3
6 },
7 {
8   "idOpintojakso": 4,
9   "Nimi": "Liike-elämän tapatietous",
10  "Koodi": "T20042",
11  "Laaajuus": 3
12 },
13 {
14   "idOpintojakso": 5,
15   "Nimi": "Fysiikka 3",
16   "Koodi": "T20043",
17   "Laaajuus": 3
18 }
```

## Arviointi:

GET localhost:3000/arviointi Send

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

x-www-form-urlencoded

KEY	VALUE	DESCRIPTION	...	Bulk Edit
-----	-------	-------------	-----	-----------

Body 200 OK 13 ms 1.45 KB Save Response

Pretty Raw Preview Visualize JSON Copy Search

```
1 {
2   "idArviointi": 3,
3   "Arvosana": 1,
4   "Paivays": "2014-09-04T21:00:00.000Z",
5   "idOpiskelija": 1,
6   "idOpintojakso": 3
7 },
8 {
9   "idArviointi": 4,
10  "Arvosana": 1,
11  "Paivays": "2014-09-04T21:00:00.000Z",
12  "idOpiskelija": 1,
13  "idOpintojakso": 5
14 },
15 {
16   "idArviointi": 5,
17   "Arvosana": 0,
18   "Paivays": "2014-09-04T21:00:00.000Z",
19   "idOpiskelija": 1
```

## Suoritus:

GET localhost:3000/suoritus Send

Params Auth Headers (7) **Body** Pre-req. Tests Settings Cookies

x-www-form-urlencoded

KEY	VALUE	DESCRIPTION	...	Bulk Edit
-----	-------	-------------	-----	-----------

Body 200 OK 57 ms 1.52 KB Save Response

Pretty Raw Preview Visualize JSON Copy Search

```
1 {
2   "etunimi": "Aku",
3   "sukunimi": "Ankka",
4   "nimi": "Tietokannat",
5   "arvosana": 1,
6   "paivays": "2014-09-04T21:00:00.000Z"
7 },
8 {
9   "etunimi": "Aku",
10  "sukunimi": "Ankka",
11  "nimi": "Fysiikka 3",
12  "arvosana": 1,
13  "paivays": "2014-09-04T21:00:00.000Z"
14 },
15 {
16   "etunimi": "Aku",
17   "sukunimi": "Ankka"
```

Suorituksen haku sukunimen perusteella:

GET localhost:3000/suoritus/Ankka Send

Params Auth Headers (7) **Body** Pre-req. Tests Settings Cookies

x-www-form-urlencoded

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body 200 OK 45 ms 1.1 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "etunimi": "Aku",
3   "sukunimi": "Ankka",
4   "nimi": "Tietokannat",
5   "arvosana": 1,
6   "paivays": "2014-09-04T21:00:00.000Z"
7 },
8 {
9   "etunimi": "Aku",
10  "sukunimi": "Ankka",
11  "nimi": "Fysiikka 3",
12  "arvosana": 1,
13  "paivays": "2014-09-04T21:00:00.000Z"
14 },
15 {
16   "etunimi": "Aku",
17   "sukunimi": "Ankka"
```

Opiskelijan lisääminen:

POST localhost:3000/opiskelija Send

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

x-www-form-urlencoded

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> etunimi	Pelle			
<input checked="" type="checkbox"/> sukunimi	Peloton			
<input checked="" type="checkbox"/> opiskelijanumero	56			
<input checked="" type="checkbox"/> luokkatunnus	123456			
<input checked="" type="checkbox"/> osoite	Neropatintie 5			
Key	Value	Description		

Body 200 OK 8 ms 350 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "etunimi": "Pelle",
3   "sukunimi": "Peloton",
4   "opiskelijanumero": "56",
5   "luokkatunnus": "123456",
6   "osoite": "Neropatintie 5"
7 }
```

### Arvioinnin lisääminen:

The screenshot shows a REST client interface with a POST request to `localhost:3000/arviointi`. The request body is in JSON format, containing the following data:

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> arvosana	5	
<input checked="" type="checkbox"/> paivays	2023-02-02	
<input checked="" type="checkbox"/> idopiskelija	7	
<input checked="" type="checkbox"/> idopintojakso	5	

The response is a 200 OK status with 8 ms latency and 313 B body size. The response body is shown in JSON format:

```
1 {
2   "arvosana": "5",
3   "paivays": "2023-02-02",
4   "idopiskelija": "7",
5   "idopintojakso": "5"
6 }
```

### Tässä näkyy äsken tehty opiskelija + arviointi kurssista:

The screenshot shows a REST client interface with a GET request to `localhost:3000/suoritus`. The response is a 200 OK status with 14 ms latency and 1.63 KB body size. The response body is shown in JSON format:

```
79 {
80   "etunimi": "Hessu",
81   "sukunimi": "Hopo",
82   "nimi": "Tietokannat",
83   "arvosana": 1,
84   "paivays": "2014-09-04T21:00:00.000Z"
85 },
86 {
87   "etunimi": "Pelle",
88   "sukunimi": "Peloton",
89   "nimi": "Fysiikka 3",
90   "arvosana": 5,
91   "paivays": "2023-02-01T22:00:00.000Z"
92 }
93 }
```

Muutettu PUT-metodilla Pelle Pelottoman arvosana 5 -> 3:

GET localhost:3000/suoritus

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

x-www-form-urlencoded

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	arvosana	3			
<input checked="" type="checkbox"/>	paivays	2023-02-02			

Body 200 OK 18 ms 1.63 KB Save Response

Pretty Raw Preview Visualize JSON

```
79 {
80   "etunimi": "Hessu",
81   "sukunimi": "Hopo",
82   "nimi": "Tietokannat",
83   "arvosana": 1,
84   "paivays": "2014-09-04T21:00:00.000Z"
85 },
86 {
87   "etunimi": "Pelle",
88   "sukunimi": "Peloton",
89   "nimi": "Fysiikka 3",
90   "arvosana": 3,
91   "paivays": "2023-02-01T22:00:00.000Z"
92 }
93 }
```

Tässä yllä olevan muutoksen näkymä:

PUT localhost:3000/arviointi/17

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

x-www-form-urlencoded

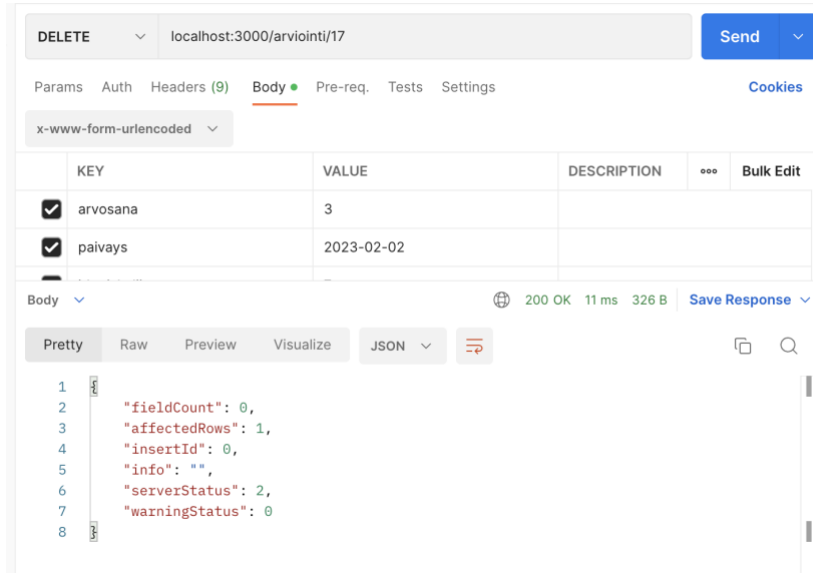
	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	arvosana	3			
<input checked="" type="checkbox"/>	paivays	2023-02-02			

Body 200 OK 58 ms 383 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "fieldCount": 0,
3   "affectedRows": 1,
4   "insertId": 0,
5   "info": "Rows matched: 1 Changed: 1 Warnings: 0",
6   "serverStatus": 2,
7   "warningStatus": 0,
8   "changedRows": 1
9 }
```

Poistetaan Pelle Peloton suorituksineen:



DELETE localhost:3000/arviointi/17

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

x-www-form-urlencoded

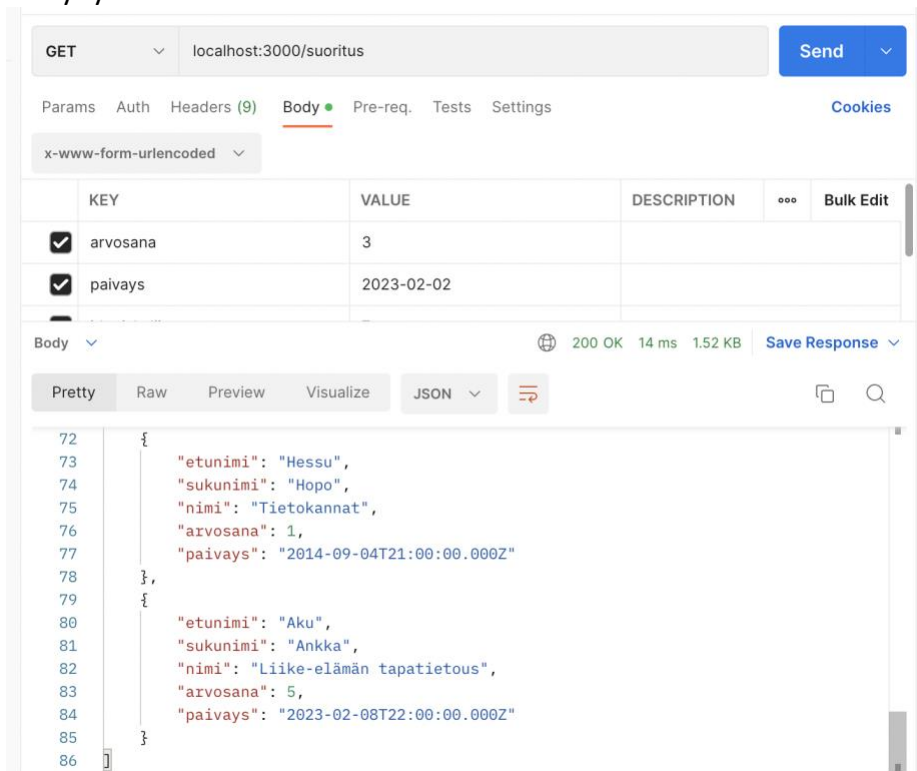
	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	arvosana	3			
<input checked="" type="checkbox"/>	paivays	2023-02-02			

Body 200 OK 11 ms 326 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "fieldCount": 0,
3   "affectedRows": 1,
4   "insertId": 0,
5   "info": "",
6   "serverStatus": 2,
7   "warningStatus": 0
8 }
```

Ei löydy enää Pelotonta suorituksista:



GET localhost:3000/suoritus

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

x-www-form-urlencoded

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	arvosana	3			
<input checked="" type="checkbox"/>	paivays	2023-02-02			

Body 200 OK 14 ms 1.52 KB Save Response

Pretty Raw Preview Visualize JSON

```
72 {
73   {
74     "etunimi": "Hessu",
75     "sukunimi": "Hopo",
76     "nimi": "Tietokannat",
77     "arvosana": 1,
78     "paivays": "2014-09-04T21:00:00.000Z"
79   },
80   {
81     "etunimi": "Aku",
82     "sukunimi": "Ankka",
83     "nimi": "Liike-elämän tapatietous",
84     "arvosana": 5,
85     "paivays": "2023-02-08T22:00:00.000Z"
86   }
87 }
```