#### **Back-End Development**

# Exploring #6 Express Middleware



## Middleware

Middleware essentially is code that works between request & response. First, we'll use express built-in middleware to serve a static file, for instance a txt file.

- First, create a project directory then
  - \$ npm init
- Installation
  - \$ npm install express --save



### Middleware (Serving a static file)

Middleware essentially is code that works between request & response. In this section, we'll use express built-in middleware to serve a static file, for instance a txt file.

teks.txt //save on dir assets!

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.



# satu.js

app.listen(3000);

# Middleware (Serving a static file)

```
var express = require('express');
var app = express();
app.set('view engine', 'ejs');
app.use('/assets',
express.static('assets'));
// '/assets' = it's an express route
// 'assets' = it's a ref dir/folder
app.get('/satu', function(req, res){
    res.render('satu');
})
```

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#### http://localhost:3000/assets/teks.txt









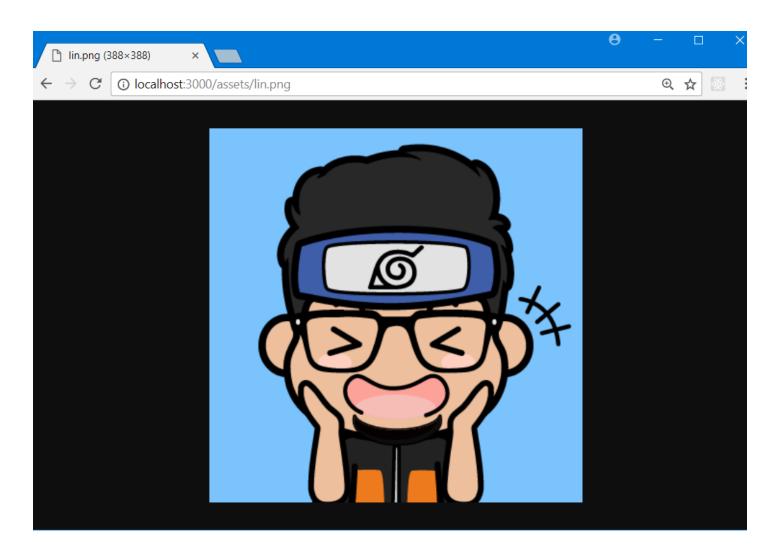
← → C ① localhost:3000/lintang/teks.txt



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#### http://localhost:3000/assets/lin.png





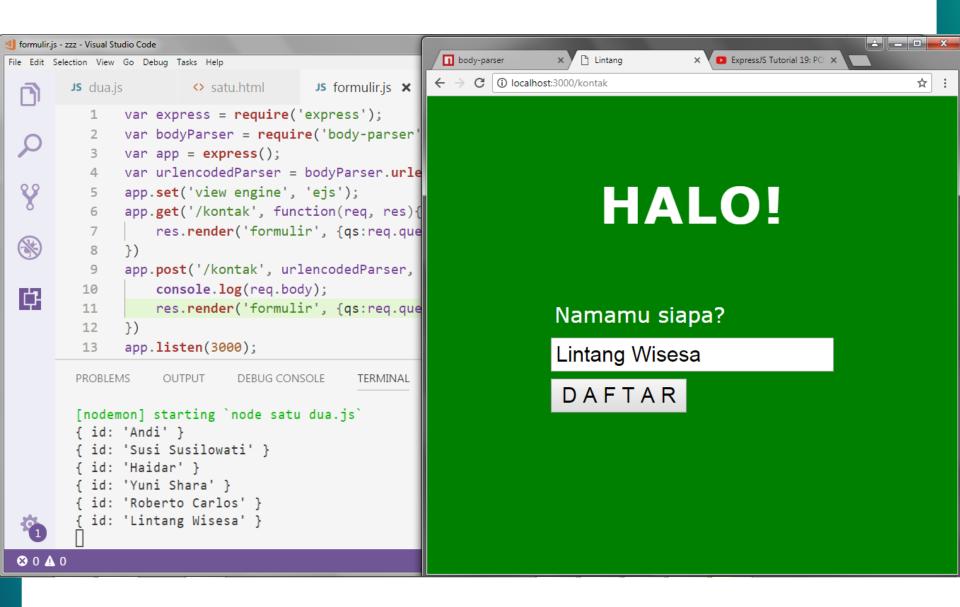
# body-parser

Node.js body parsing middleware. Parse incoming request bodies in a middleware before your handlers, available under the *req.body* property. This module provides the following parsers: JSON body parser, raw body parser, text body parser & URL-encoded form body parser.

#### Installation

npm install body-parser --save





#### **POST to server**

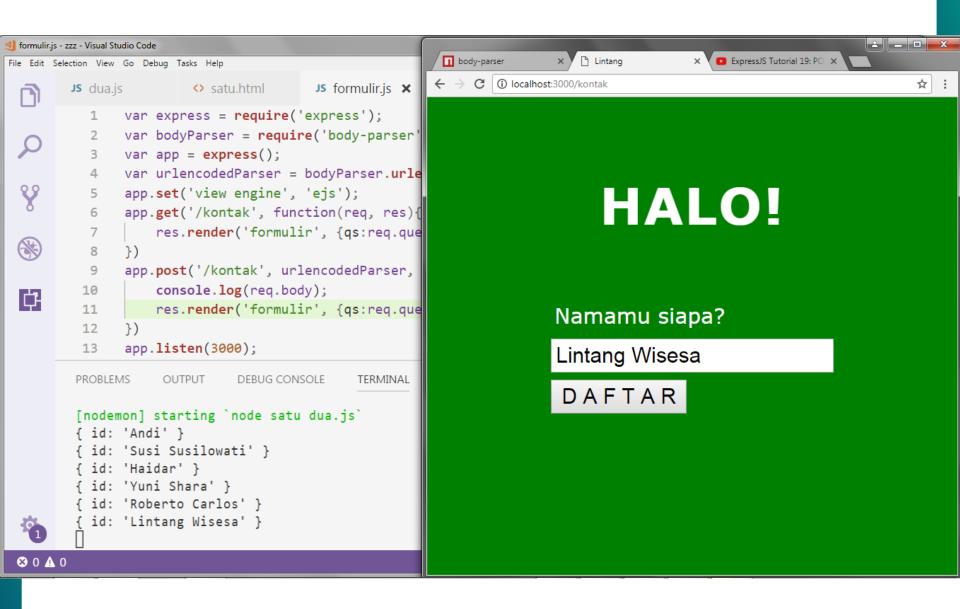
## formulir.js

```
var express = require('express');
    bodyParser = require('body-parser')
var app = express();
var url = bodyParser.urlencoded({ extended: false })
app.set('view engine', 'ejs');
app.get('/kontak', function(req, res){
      res.render('formulir');
})
app.post('/kontak', url, function(req, res){
      console.log(req.body);
      res.render('formulir');
})
app.listen(3000);
```

#### **POST to server**

## formulir.ejs

```
<body>
<h2>Halo!</h2>
<form id="daftar" method="POST" action="/kontak">
<label for="id">Namamu siapa?</label>
<input type="text" name="id" value=""/>
<input type="submit" value=" D A F T A R "/>
</form>
</body>
```







# POST to server & Response to client

## formulir.ejs

```
<body>
<h2>Halo!</h2>
<form id="daftar" method="POST" action="/kontak">
<label for="id">Namamu siapa?</label>
<input type="text" name="id" value=""/>
<input type="submit" value=" D A F T A R "/>
</form>
</body>
```

# POST to server & Response to client

form\_OK.ejs

```
<body>
<h2>Halo <%= data.id %> !</h2>
 <%= data.id %> sudah terdaftar.
</body>
```



### formulir.js

# POST to server & Response to client

```
var express = require('express');
var bodyParser = require('body-parser')
var app = express();
var url = bodyParser.urlencoded({ extended: false })
app.set('view engine', 'ejs');
app.get('/kontak', function(req, res){
     res.render('formulir');
})
app.post('/kontak', url, function(req, res){
     console.log(req.body);
     res.render('form_OK', {data:req.body});
})
app.listen(3000);
```





#### **Back-End Development**

# Exploring #6 Express Module

