



Express dan MVC

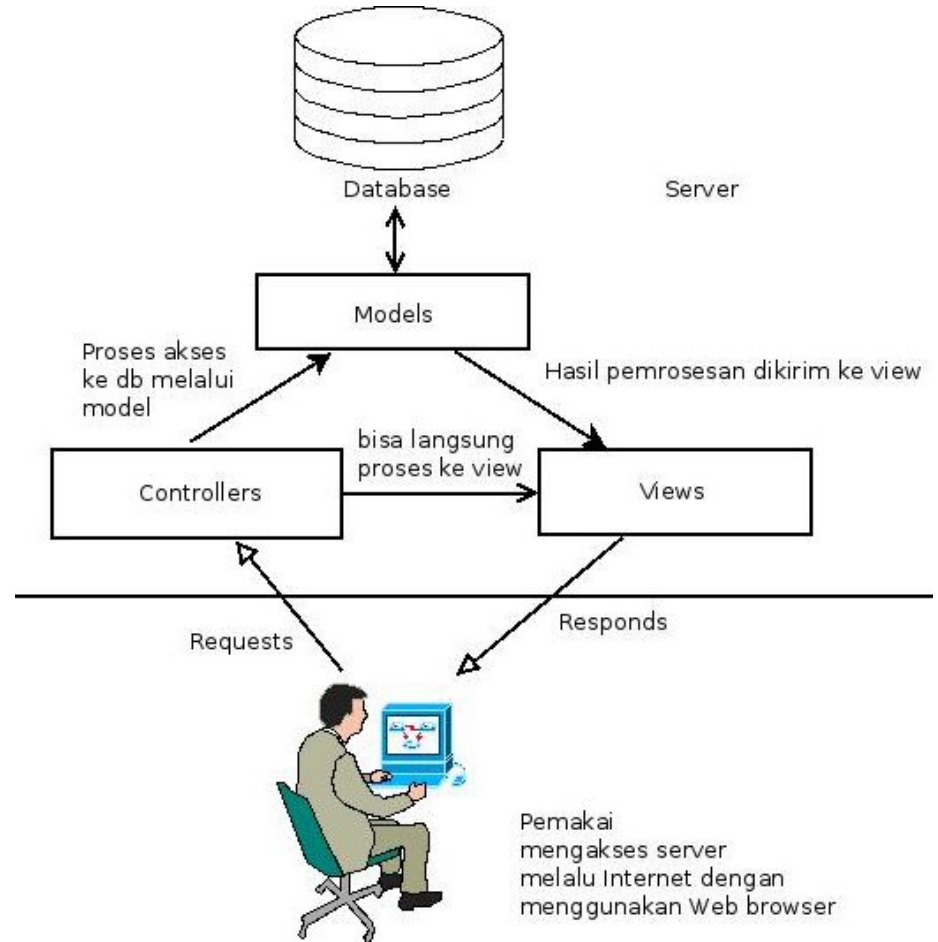
MVC

- Model-view-controller (biasanya dikenal sebagai MVC) adalah pola desain perangkat lunak [1] yang biasa digunakan untuk mengembangkan antarmuka pengguna yang membagi logika program terkait menjadi tiga elemen yang saling berhubungan.
- Model adalah struktur data dinamis aplikasi, tidak bergantung pada antarmuka pengguna. [5] Ini secara langsung mengelola data, logika dan aturan aplikasi.
- View : Representasi informasi apa pun seperti bagan, diagram, atau tabel. Beberapa tampilan dari informasi yang sama dimungkinkan, seperti diagram batang untuk manajemen dan tampilan tabel untuk akuntan.
- Controller : Menerima input dan mengubahnya menjadi perintah untuk model atau tampilan.

MVC

- Model bertanggung jawab untuk mengelola data aplikasi. Ini menerima input pengguna dari pengontrol.
- View berarti penyajian model dalam format tertentu.
- Pengontrol menanggapi masukan pengguna dan melakukan interaksi pada objek model data. Pengontrol menerima input, secara opsional memvalidasinya dan kemudian meneruskan input ke model..
- Contoh : <https://github.com/expressjs/express/tree/master/examples/mvc>

MVC



Implementasi MVC di Express

The screenshot shows a Sublime Text editor with three files open: `db.js`, `404.ejs`, and `index.js`.

db.js:

```
1 // faux database
2
3 var pets = exports.pets = [];
4
5 pets.push({ name: 'Tobi', id: 0 });
6 pets.push({ name: 'Loki', id: 1 });
7 pets.push({ name: 'Jane', id: 2 });
8 pets.push({ name: 'Raul', id: 3 });
9
10 var users = exports.users = [];
11
12 users.push({ name: 'TJ', pets: [pets
13   [0], pets[1], pets[2]], id: 0 }
14   );
15 users.push({ name: 'Guillermo', pets
16   : [pets[3]], id: 1 });
17 users.push({ name: 'Nathan', pets: [
18   ], id: 2 });
```

404.ejs:

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="w
6       idth=device-width,initial-scale=
7       1">
8     <title>Not Found</title>
9     <link rel="stylesheet" href="/
10       style.css">
11   </head>
12   <body>
13     <h1>404: Not Found</h1>
14     <p>Sorry we can't find <%= url
15       %></p>
16   </body>
17 </html>
```

index.js:

```
1 /**
2  * Module dependencies.
3  */
4
5 var db = require('../db');
6
7 exports.engine = 'ejs';
8
9 exports.before = function(req, res,
10   next){
11   var pet = db.pets[req.params.pet_id
12     ];
13   if (!pet) return next('route');
14   req.pet = pet;
15   next();
16 };
17
18 exports.show = function(req, res,
19   next){
20   res.render('show', { pet: req.pet
21     });
22 };
23
24 exports.edit = function(req, res,
25   next){
26   res.render('edit', { pet: req.pet
27     });
28 };
29
30 exports.destroy = function(req, res,
31   next){
32   db.pets.splice(req.params.pet_id, 1);
33   next();
34 };
35
36 exports.create = function(req, res,
37   next){
38   var pet = {
39     name: req.body.name,
40     id: req.body.id,
41     user: req.body.user,
42     user_id: req.body.user_id,
43     user_name: req.body.user_name,
44     user_email: req.body.user_email,
45     user_password: req.body.user_password,
46     user_confirmation_password: req.body.user_confirmation_password,
47     user_is_active: req.body.user_is_active,
48     user_is_admin: req.body.user_is_admin,
49     user_is_superuser: req.body.user_is_superuser,
50     user_is_staff: req.body.user_is_staff,
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```

Thanks