

Nama Kelompok : **SevenSky**

Matakuliah : Pemrograman Web Berorientasi Service (PWBS)

Dosen Pembimbing : A. Ferico Oktaviansyah, S.Kom., M.Kom.

Anggota

1. Firstito Rahman Abdillah (20312002)

Devisi : Front end

Branch : (master)

2. Yoga Pratama (20312008)

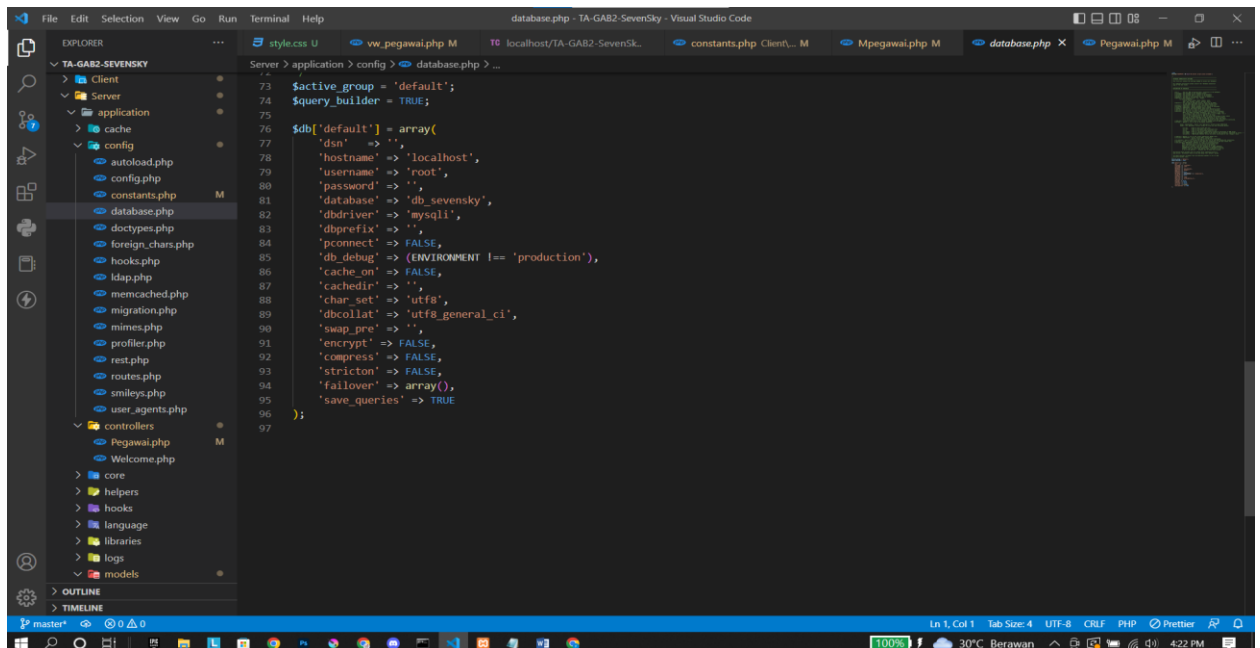
Devisi : Back end

Branch : (yogapratama)

HASIL PROGRES SESI 1

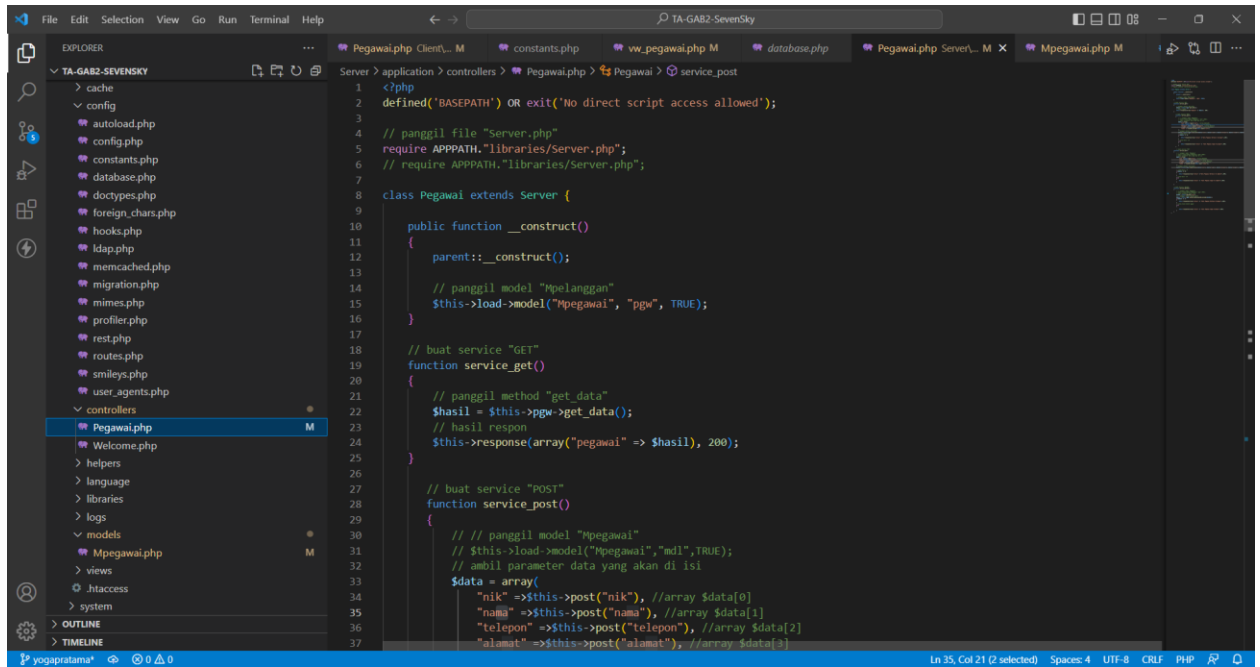
A. Server

1. Server “identifikasi database, db_sevensky”

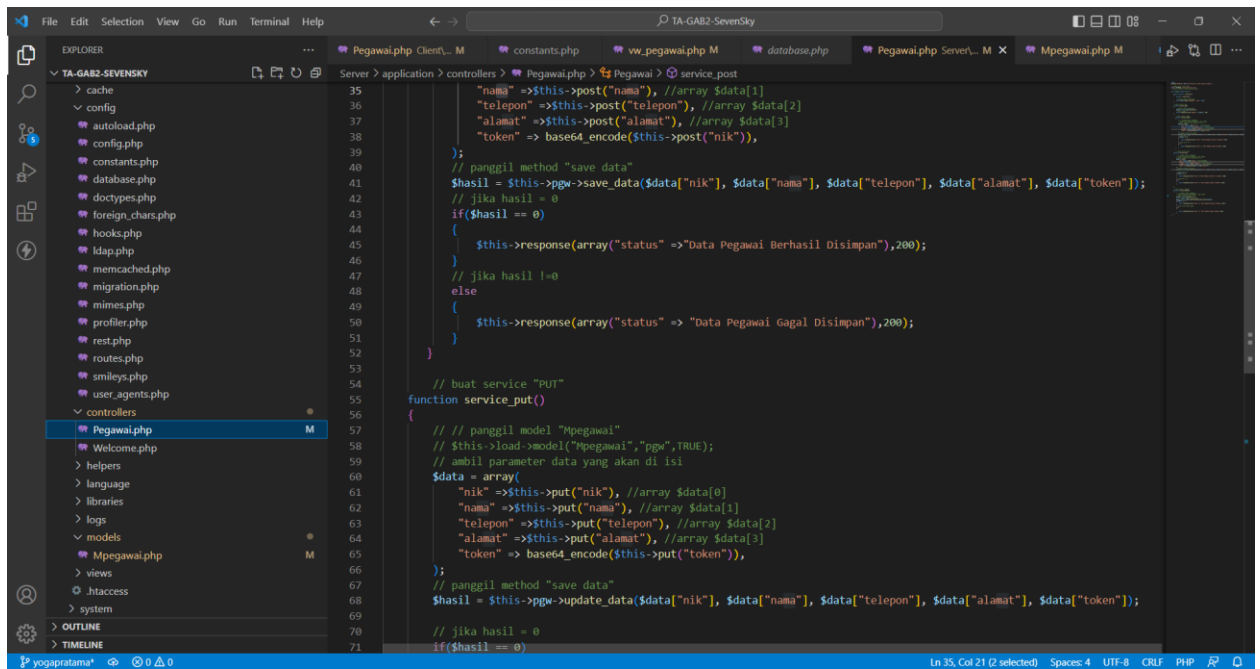


```
Server > application > config > database.php > ...
73 $active_group = 'default';
74 $query_builder = TRUE;
75
76 $db['default'] = array(
77     'dsn' => '',
78     'hostname' => 'localhost',
79     'username' => 'root',
80     'password' => '',
81     'database' => 'db_sevensky',
82     'dbdriver' => 'mysqli',
83     'dbprefix' => '',
84     'pconnect' => FALSE,
85     'db_debug' => (ENVIRONMENT !== 'production'),
86     'cache_on' => FALSE,
87     'cachedir' => '',
88     'char_set' => 'utf8',
89     'dbcollat' => 'utf8_general_ci',
90     'swap_pre' => '',
91     'encrypt' => FALSE,
92     'compress' => FALSE,
93     'stricton' => FALSE,
94     'fallover' => array(),
95     'save_queries' => TRUE
96 );
97
```

2. Codengan Server “Controllers Pegawai.php”



```
1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 // panggil file "Server.php"
5 require APPPATH."libraries/Server.php";
6 // require APPPATH."libraries/Server.php";
7
8 class Pegawai extends Server {
9
10     public function __construct()
11     {
12         parent::__construct();
13
14         // panggil model "Mpelanggan"
15         $this->load->model("Mpegawai", "pgw", TRUE);
16     }
17
18     // buat service "GET"
19     function service_get()
20     {
21         // panggil method "get_data"
22         $hasil = $this->pgw->get_data();
23         // hasil respon
24         $this->response(array("pegawai" => $hasil), 200);
25     }
26
27     // buat service "POST"
28     function service_post()
29     {
30         // // panggil model "Mpegawai"
31         // $this->load->model("Mpegawai", "mdl", TRUE);
32         // ambil parameter data yang akan di isi
33         $data = array(
34             "nik" => $this->post("nik"), //array $data[0]
35             "nama" => $this->post("nama"), //array $data[1]
36             "telepon" => $this->post("telepon"), //array $data[2]
37             "alamat" => $this->post("alamat"), //array $data[3]
```

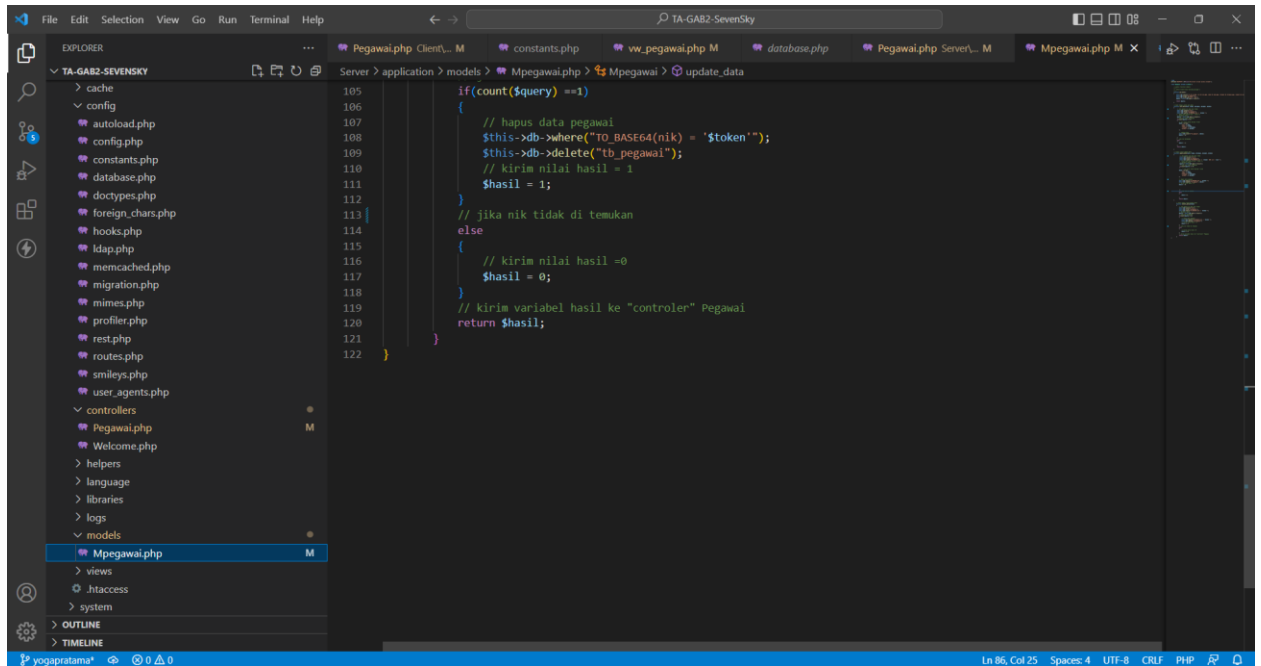


```
38             "token" => base64_encode($this->post("nik")),
39         );
40         // panggil method "save data"
41         $hasil = $this->pgw->save_data($data["nik"], $data["nama"], $data["telepon"], $data["alamat"], $data["token"]);
42         // jika hasil = 0
43         if($hasil == 0)
44         {
45             $this->response(array("status" => "Data Pegawai Berhasil Disimpan"), 200);
46         }
47         // jika hasil != 0
48         else
49         {
50             $this->response(array("status" => "Data Pegawai Gagal Disimpan"), 200);
51         }
52     }
53
54     // buat service "PUT"
55     function service_put()
56     {
57         // // panggil model "Mpegawai"
58         // $this->load->model("Mpegawai", "pgw", TRUE);
59         // ambil parameter data yang akan di isi
60         $data = array(
61             "nik" => $this->put("nik"), //array $data[0]
62             "nama" => $this->put("nama"), //array $data[1]
63             "telepon" => $this->put("telepon"), //array $data[2]
64             "alamat" => $this->put("alamat"), //array $data[3]
65             "token" => base64_encode($this->put("token")),
66         );
67         // panggil method "save data"
68         $hasil = $this->pgw->update_data($data["nik"], $data["nama"], $data["telepon"], $data["alamat"], $data["token"]);
69         // jika hasil = 0
70         if($hasil == 0)
```

```
70 // jika hasil = 0
71 if($hasil == 0)
72 {
73     $this->response(array("status" => "Data Pegawai Berhasil Di Update"),200);
74 }
75 // jika hasil != 0
76 else
77 {
78     $this->response(array("status" => "Data Pegawai Gagal Di Update"),200);
79 }
80
81 }
82
83 // buat service "DELETE"
84 function service_delete()
85 {
86     // panggil model "Mpegawai"
87     // $this->load->model("Mpegawai","pgw",TRUE);
88     // ambil parameter token "nik"
89     $token = $this->delete("nik");
90     // panggil fungsi "delete_data"
91     $hasil = $this->pgw->delete_data(base64_encode($token));
92     if($hasil == 1)
93     {
94         $this->response(array("status" => "Data Pegawai Berhasil Dihapus"),200);
95     }
96     // jika proses delete gagal
97     else
98     {
99         $this->response(array("status" => "Data Pegawai Gagal Dihapus"),200);
100     }
101 }
102
103 }
```

3. Codingan Server “Models Mpegawai.php”

```
1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 class Mpegawai extends CI_Model {
5
6     // public function index()
7     // {
8     //     $this->load->view('welcome_message');
9     // }
10
11     function get_data()
12     {
13         $this->db->select("id AS id_pgw, nik AS nik_pgw, nama AS nama_pgw, telepon AS telepon_pgw, alamat AS alamat_pgw");
14         $this->db->from("tb_pegawai");
15         $this->db->order_by("nik", "ASC");
16         $query = $this->db->get()->result();
17
18         return $query;
19     }
20
21     // buat fungsi untuk save data
22     function save_data($nik, $nama, $telepon, $alamat, $token)
23     {
24         // cek apakah nik ada atau tidak
25         $this->db->select("nik");
26         $this->db->from("tb_pegawai");
27         $this->db->where("TO_BASE64(nik) = '$token'");
28         // $this->db->where("nik = '$nik'");
29         // eksekusi query
30         $query = $this->db->get()->result();
31         // jika nik tidak ditemukan
32         if(count($query) == 0)
33         {
34             // isi nilai untuk masing-masing field
35             $data = array(
36                 "nik" => $nik,
37                 "nama" => $nama,
```

4. Thunder Client “POST data Pegawai berhasil di Tambah data”

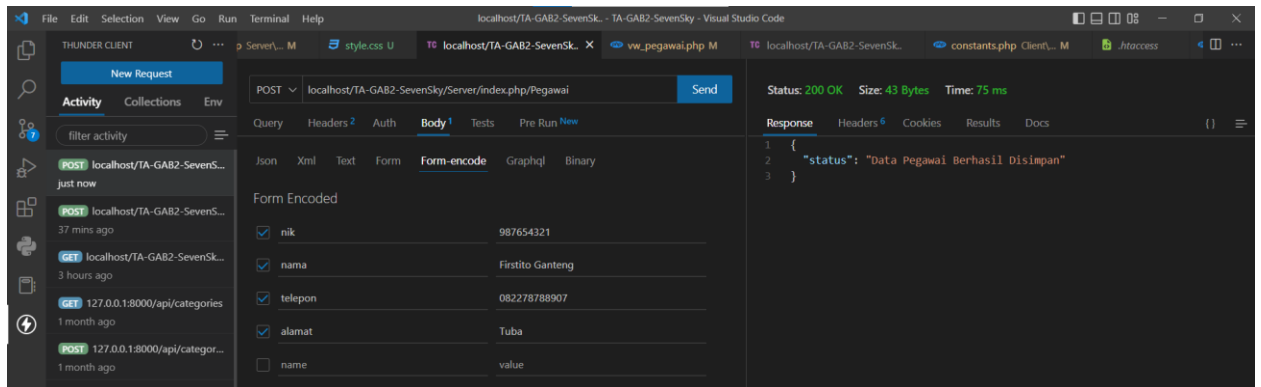


Table yang saya POST yaitu tb_pegawai dengan atribut sebagai berikut:

- nik (987654321)
- nama (Firstito Ganteng)
- telepon (082278788907)
- alamat (Tuba)

5. Thunder Client “GET data Pegawai berhasil di Panggil”

GET localhost/TA-GAB2-SevenSky/Server/index.php/Pegawai Send

Status: 200 OK Size: 251 Bytes Time: 68 ms

Query Headers 2 Auth Body 1 Tests Pre Run New

Json Xml Text Form Form-encode GraphQL Binary

Form Encoded

<input checked="" type="checkbox"/>	nik	987654321
<input checked="" type="checkbox"/>	nama	Firstito Ganteng
<input checked="" type="checkbox"/>	telepon	082278788907
<input checked="" type="checkbox"/>	alamat	Tuba
<input type="checkbox"/>	name	value

Response Headers 6 Cookies Results Docs

```

1 {
2   "pegawai": [
3     {
4       "id_pgw": "2",
5       "nik_pgw": "0987654321",
6       "nama_pgw": "Yoga Pratama",
7       "telepon_pgw": "098765678908",
8       "alamat_pgw": "Pesisir Barat"
9     },
10    {
11      "id_pgw": "3",
12      "nik_pgw": "987654321",
13      "nama_pgw": "Firstito Ganteng",
14      "telepon_pgw": "082278788907",
15      "alamat_pgw": "Tuba"
16    }
17  ]
18 }
```

Pada proses GET ini saya melakukan pemanggilan data, data yang saya panggil sebagai berikut:

- id : “2”
- nik_pgw : “0987654321”
- nama_pgw : “Yoga Pratama”
- telepon_pgw : “098765670908”
- alamat_pgw : “Pesisir Barat”

- id : “3”
- nik_pgw : “987654321”
- nama_pgw : “Firstito Ganteng”
- telepon_pgw : “082278788907”
- alamat_pgw : “Tuba”

6. Thunder Client “PUT data Pegawai berhasil di Update”

PUT http://localhost/TA-GAB2-SevenSky/Server/index.php/Pegawai Send

Status: 200 OK Size: 44 Bytes Time: 53 ms

Query Headers 2 Auth Body 1 Tests Pre Run New

Json Xml Text Form Form-encode GraphQL Binary

Form Encoded

<input checked="" type="checkbox"/>	nik	080808080812
<input checked="" type="checkbox"/>	nama	Pandu Wijaya
<input checked="" type="checkbox"/>	telepon	098765432112
<input checked="" type="checkbox"/>	alamat	Pringsewu
<input checked="" type="checkbox"/>	token	080808080808
<input type="checkbox"/>	name	value

Response Headers 6 Cookies Results Docs

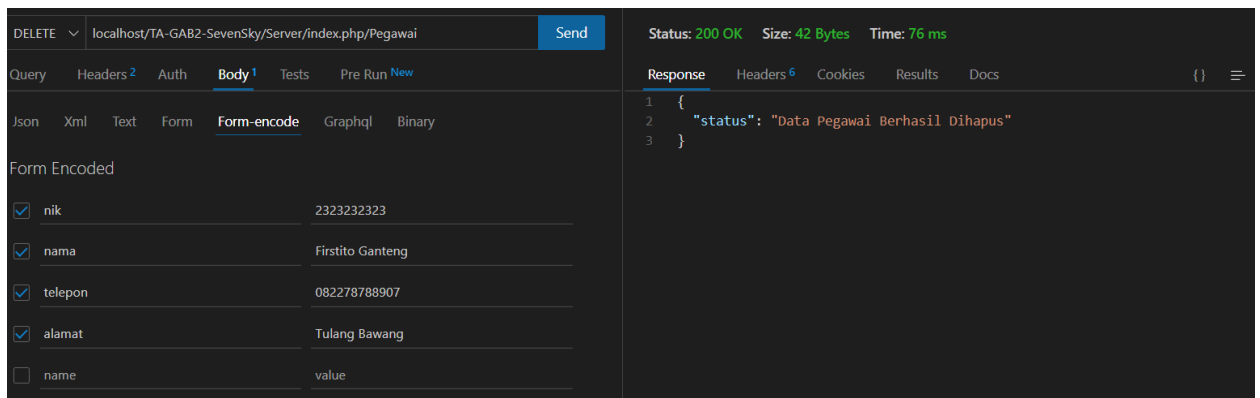
```

1 {
2   "status": "Data Pegawai Berhasil Di Update"
3 }
```

Pada bagian PUT saya melakukan update data sebagai berikut:

- nik : “080808080812” *nik nya di perbarui karena sebelumnya salah 2 digit yang di akhir dan di perbarui menjadi “080808080812”.*
- nama : “Pandu Wijaya” *nama nya di perbarui karena sebelumnya salah yang tadinya cuma nama panggilan sekarang di lengkapi menjadi “Pandu Wijaya”.*
- telepon : “098765432112”
- alamat : “Pringsewu”
- token : “080808080808”

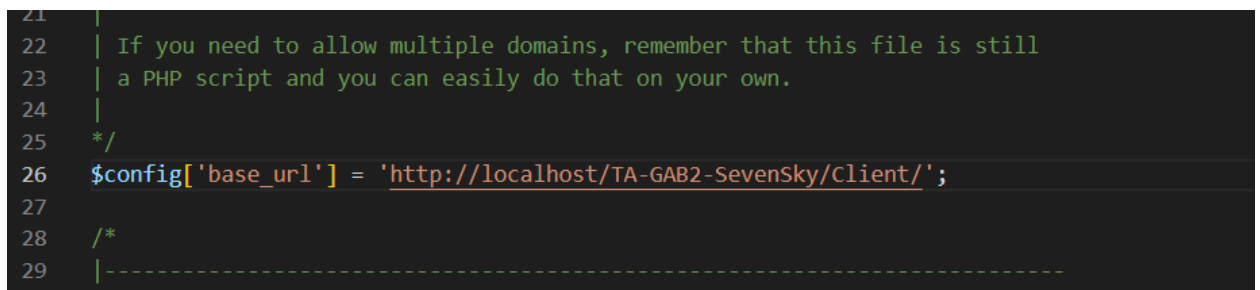
7. Thunder Client “DELETE data Pegawai berhasil di Hapus”



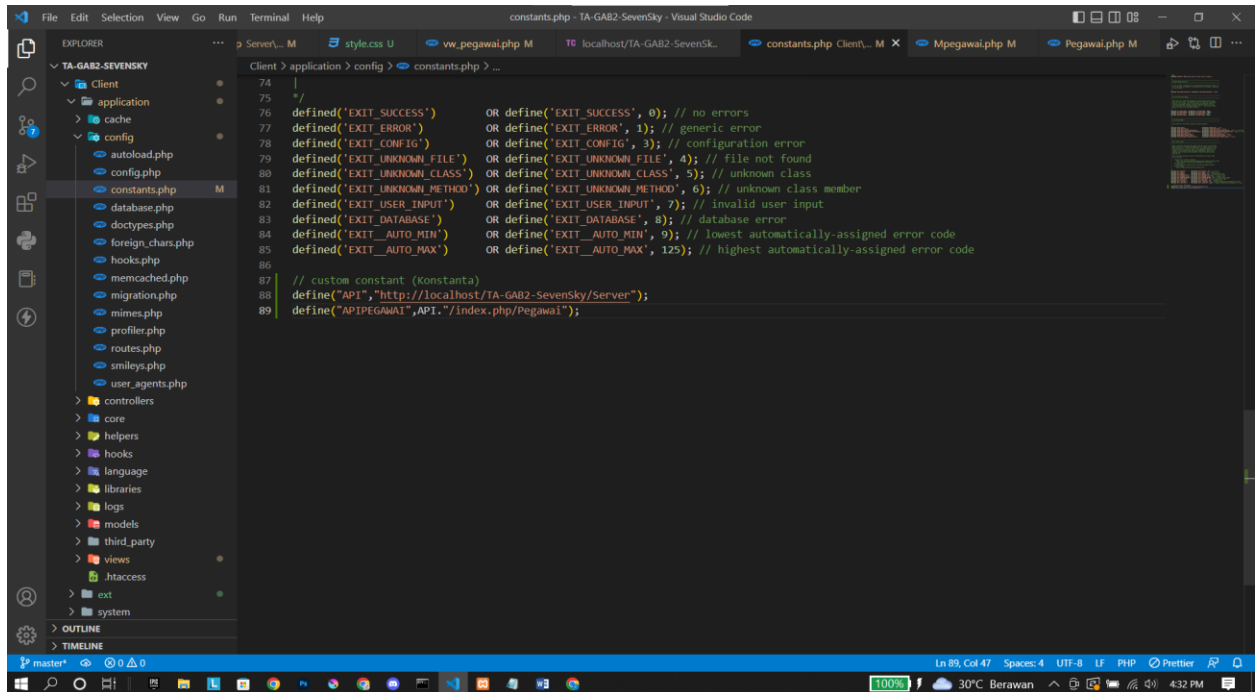
Pada proses hapus atau DELETE, sebagai contoh saya menggunakan data atas nama Firstito Ganteng dengan nik “2323232323”.

B. Client

1. Base URL Client 'http://localhost/TA-GAB2-SevenSky/Client'



2. Codengan Client “custom constant (Konstanta)” API



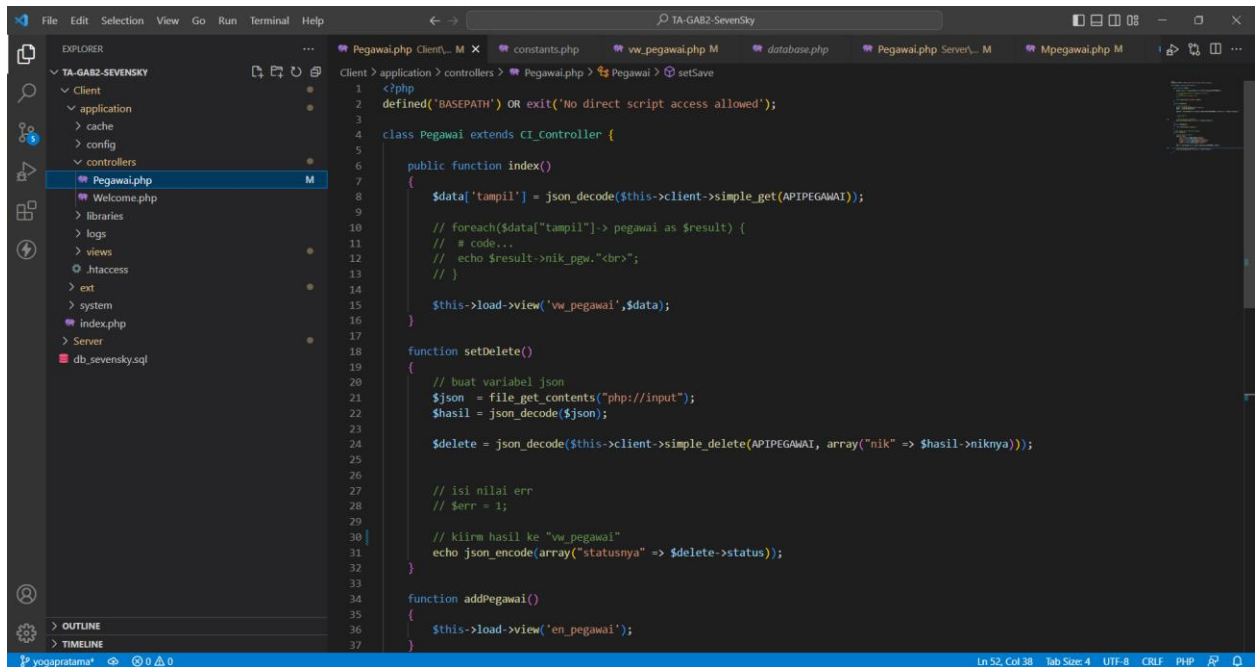
The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The file explorer shows the following structure:

- TA-GAB2-SEVENSKY
 - Client
 - application
 - cache
 - config
 - autoload.php
 - constants.php (selected)
 - database.php
 - doctypes.php
 - foreign_chars.php
 - hooks.php
 - memcached.php
 - migrations.php
 - mimes.php
 - profiler.php
 - routes.php
 - smileys.php
 - user_agents.php
 - controllers
 - core
 - helpers
 - hooks
 - language
 - libraries
 - logs
 - models
 - third_party
 - views
 - .htaccess
 - ext
 - system
 - OUTLINE
 - TIMELINE

The main editor shows the content of `constants.php`:

```
74 |
75 */
76 defined('EXIT_SUCCESS') OR define('EXIT_SUCCESS', 0); // no errors
77 defined('EXIT_ERROR') OR define('EXIT_ERROR', 1); // generic error
78 defined('EXIT_CONFIG') OR define('EXIT_CONFIG', 3); // configuration error
79 defined('EXIT_UNKNOWN_FILE') OR define('EXIT_UNKNOWN_FILE', 4); // file not found
80 defined('EXIT_UNKNOWN_CLASS') OR define('EXIT_UNKNOWN_CLASS', 5); // unknown class
81 defined('EXIT_UNKNOWN_METHOD') OR define('EXIT_UNKNOWN_METHOD', 6); // unknown class member
82 defined('EXIT_USER_INPUT') OR define('EXIT_USER_INPUT', 7); // invalid user input
83 defined('EXIT_DATABASE') OR define('EXIT_DATABASE', 8); // database error
84 defined('EXIT_AUTO_MIN') OR define('EXIT_AUTO_MIN', 9); // lowest automatically-assigned error code
85 defined('EXIT_AUTO_MAX') OR define('EXIT_AUTO_MAX', 125); // highest automatically-assigned error code
86
87 // custom constant (Konstanta)
88 define("API", "http://localhost/TA-GAB2-SevenSky/Server");
89 define("APIPEGAWAI", API."/index.php/Pegawai");
```

3. Codengan Client “Controllers Pegawai.php”



The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The file explorer shows the following structure:

- TA-GAB2-SEVENSKY
 - Client
 - application
 - cache
 - config
 - controllers
 - Pegawai.php (selected)
 - Welcome.php
 - libraries
 - logs
 - views
 - .htaccess
 - ext
 - system
 - Index.php
 - Server
 - db_sevensky.sql
 - OUTLINE
 - TIMELINE

The main editor shows the content of `Pegawai.php`:

```
1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 class Pegawai extends CI_Controller {
5
6
7     public function index()
8     {
9         $data['tampil'] = json_decode($this->client->simple_get(APIPEGAWAI));
10
11         // foreach($data["tampil"]->pegawai as $result) {
12             // # code...
13             // echo $result->nik_pgw."<br>";
14         }
15
16         $this->load->view('vw_pegawai', $data);
17     }
18
19     function setDelete()
20     {
21         // buat variabel json
22         $json = file_get_contents("php://input");
23         $hasil = json_decode($json);
24
25         $delete = json_decode($this->client->simple_delete(APIPEGAWAI, array("nik" => $hasil->niknya)));
26
27         // isi nilai err
28         // $err = 1;
29
30         // klirm hasil ke "vw_pegawai"
31         echo json_encode(array("statusnya" => $delete->status));
32     }
33
34     function addPegawai()
35     {
36         $this->load->view('en_pegawai');
37     }
38 }
```



```

35 {
36     $this->load->view('en_pegawai');
37 }
38
39 // buat fungsi untuk simpan data pegawai
40 function setSave()
41 {
42     // baca nilai dari fetch
43     $data = array(
44         "nik" => $this->input->post("niknya"),
45         "nama" => $this->input->post("namanya"),
46         "telepon" => $this->input->post("teleponnya"),
47         "alamat" => $this->input->post("alamatnya"),
48         "token" => $this->input->post("niknya"),
49     );
50     $save = json_decode($this->client->simple_post(APIPEGAWAI, $data));
51
52     // kirim hasil ke "vw_pegawai"
53     echo json_encode(array("statusnya" => $save->status));
54 }
55
56 }
57

```

4. Codingan Client “views vw_pegawai.php”

```

1 <?DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>Tampil Data Pegawai</title>
8
9     <!-- import font awesome -->
10    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"
11        integrity="sha512-xh60/cooPOmDdyTQeRdPCVd1SpvCA9XXcUnZS2FmJNp1coAFzvtCN9BmamE14aHK3yYUHUscCJhXl0IyT2A=="
12        crossorigin="anonymous" referrerpolicy="no-referrer" />
13
14    <!-- import file "style.css" -->
15    <link rel="stylesheet" href="base_url('ext/style.css'); ?"/>
16 </head>
17 <body>
18     <!-- BUAT AREA MENU -->
19     <nav class="area-menu">
20         <button id="btn_tambah" class="btn-primary">Add Data</button>
21         <button id="btn_refresh" class="btn-secondary" onclick="return setRefresh()">Refresh Data</button>
22     </nav>
23
24     <!-- buat area table -->
25     <table>
26         <thead>
27             <tr>
28                 <th style="width: 10%;>Aksi</th>
29                 <th style="width: 15%;>No</th>
30                 <th style="width: 10%;>NIK</th>
31                 <th style="width: 50%;>Nama Pegawai</th>
32                 <th style="width: 15%;>Telepon</th>
33                 <th style="width: 10%;>Alamat</th>
34             </tr>
35         </thead>

```

```
File Edit Selection View Go Run Terminal Help
TA-GAB2-Sevensky
EXPLORER
TA-GAB2-SEVENSKY
Client
application
cache
config
controllers
Pegawai.php
Welcome.php
libraries
logs
views
errors
vw_pegawai.php
welcome_message.php
.htaccess
ext
system
index.php
Server
db_sevensky.sql
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67
<!-- isi tabel -->
<thead>
</thead>
<tbody>
<!-- proses looping data -->
<?php
// set nilai awal no
$no = 1;
foreach($stampil->pegawai as $result) {
}
<tr>
<td style="text-align: center;" <nav class="area-aksi">
<button class="btn-ubah" id="btn_ubah" title="ubah Data" onclick="return gotoUpdate('<?php echo $result->nik_pgw; ?>')"><i class="fa-regular fa-pen-to-square"></i></button>
<button class="btn-hapus" id="btn_hapus" title="hapus Data" onclick="return gotoDelete('<?php echo $result->nik_pgw; ?>')"><i class="fa-solid fa-trash-can"></i></button>
</nav></td>
<td style="text-align: center;" <?php echo $no; ?></td>
<td style="text-align: center;" <?php echo $result->nik_pgw; ?></td>
<td style="text-align: justify;" <?php echo $result->nama_pgw; ?></td>
<td style="text-align: center;" <?php echo $result->telepon_pgw; ?></td>
<td style="text-align: center;" <?php echo $result->alamat_pgw; ?></td>
</tr>
<?php
$no++;
}
</tbody>
</table>
<!-- import font awesome (js)-->
<script src="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/js/all.min.js" integrity="sha512-naukR7I
+HkGp7p5THWycgFxaZB77M0SIC3fP6yS9KfHOGfpKSZkYVWSR7u7cFAicxamwQ5D1e17fJcPA==" crossorigin="anonymous"
referrerpolicy="no-referrer"></script>
```

```
File Edit Selection View Go Run Terminal Help
TA-GAB2-Sevensky
EXPLORER
TA-GAB2-SEVENSKY
Client
application
cache
config
controllers
Pegawai.php
Welcome.php
libraries
logs
views
errors
vw_pegawai.php
welcome_message.php
.htaccess
ext
system
index.php
Server
db_sevensky.sql
Pegawai.php Client... M
constants.php
vw_pegawai.php M X
database.php
Pegawai.php Server... M
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Client > application > views > vw_pegawai.php
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<script>
// inialisasi object
let btn_tambah = document.getElementById("btn_tambah");
// buat event untuk tambah data
btn_tambah.addEventListener('click',function(){
// alert("Tambah Data")
// manipulasi css (property dan value)
// btn_tambah.style.backgroundColor="#FFF000"
// this.style.borderRadius="10px"
// manipulasi css(className)
// this.className= "btn-secondary";
// manipulasi html
// this.innerHTML = <strong>Tambah Data</strong>;
// this.innerText = "Tambah Data";
// alihkan ke halaman/controller(pegawai) fungsi "addPegawai"
location.href='<?php echo site_url("Pegawai/addPegawai")?>'
})
// btn_tambah.addEventListener('click', setRefresh)
function setRefresh()
{
location.href='<?php echo base_url('/index.php/Pegawai') ?>';
}
// buat fungsi untuk ke halaman update
function gotoUpdate(nik)
{
// nikx = "0n00m";
// let nikx = atob(nik);
location.href='<?php echo site_url("Pegawai/updatePegawai") ?>'+"/?nik
```

The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure for 'TA-GAB2-SEVENSKY'. The main editor window shows the file 'vw_pegawai.php' with the following code:

```
104 location.href=<?php echo site_url("Pegawai/updatePegawai") ?>'+' +nik
105 }
106 // buat fungsi untuk hapus data
107 function gotoDelete(nik)
108 {
109     if(confirm("Data Pegawai "+nik+" Ingin Dihapus ?")== true)
110     {
111         // alert("Data Berhasil Dihapus")
112         // panggil fungsi setDatabase
113         setDelete(nik);
114     }
115     // else
116     // alert("Data Gagal Dihapus")
117 }
118
119 function setDelete(nik)
120 {
121     // buat variabel /konstanta data
122     const data = {
123         "niknya" : nik
124     }
125     // kirim data async dengan fetch
126     fetch('<?php echo site_url("Pegawai/setDelete"); ?>',
127     {
128         method : "POST",
129         headers : {
130             "Content-Type" : "application/json"
131         },
132         body: JSON.stringify(data)
133     })
134     .then((response) =>
135     {
136         return response.json()
137     })
138 }
```

The screenshot shows the continuation of the 'vw_pegawai.php' file. The code continues from the previous block:

```
140     return response.json()
141 })
142 .then(function(data)
143 {
144     // jika nilai "err" = 0
145     // if(data.err === 0)
146     // alert("Data Berhasil Dihapus")
147     // jika "err" = 1
148     // else
149     // alert("Data Gagal Dihapus")
150     alert(data.statusny);
151     // panggil fungsi setRefresh
152     setRefresh();
153 })
154 }
155 }
156
157 </script>
158
159 </body>
160 </html>
```

5. Tampilan Halaman Data Pegawai

Data Pegawai

Add Data Refresh Data

No	NIK	Nama Pegawai	Telepon	Alamat	Aksi
1	080808080812	Pandu Wijaya	098765432112	Pringsewu	
2	1234567890112	Yoga Pratama	098712347656	Pesisir Barat	
3	1256567890112	Safitri	889012347656	Lampung Barat	
4	737384937123	Firstito Rahmana A	987651234512	Tulang Bawang	
5	890098765421	Williy	098765567890	Bandar Lampung	

26°C Berawan Search 22:55 14/12/2022

Link acces: <http://localhost/TA-GAB2-SevenSky/Client/index.php/Pegawai>