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# LAPORAN PRAKTIKUM MAHASISWA PEMROGRAMAN WEB FRAMEWORK

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CRUD-2



Oleh:

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D3 - MANAJEMEN INFORMATIKA  
JURUSAN EKONOMI DAN BISNIS  
POLITEKNIK NEGERI LAMPUNG

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## A. Tujuan (Capaian Pembelajaran)

Setelah praktikum ini, praktikan diharapkan dapat:

1. Membuat database dan table menggunakan mysql
2. Mengkoneksikan Codeigniter dan database
3. Mampu menjelaskan bentuk-bentuk otoritas terhadap data yang tersimpan dalam tabel/relasi
4. Membuat Validasi Login dan CRUD

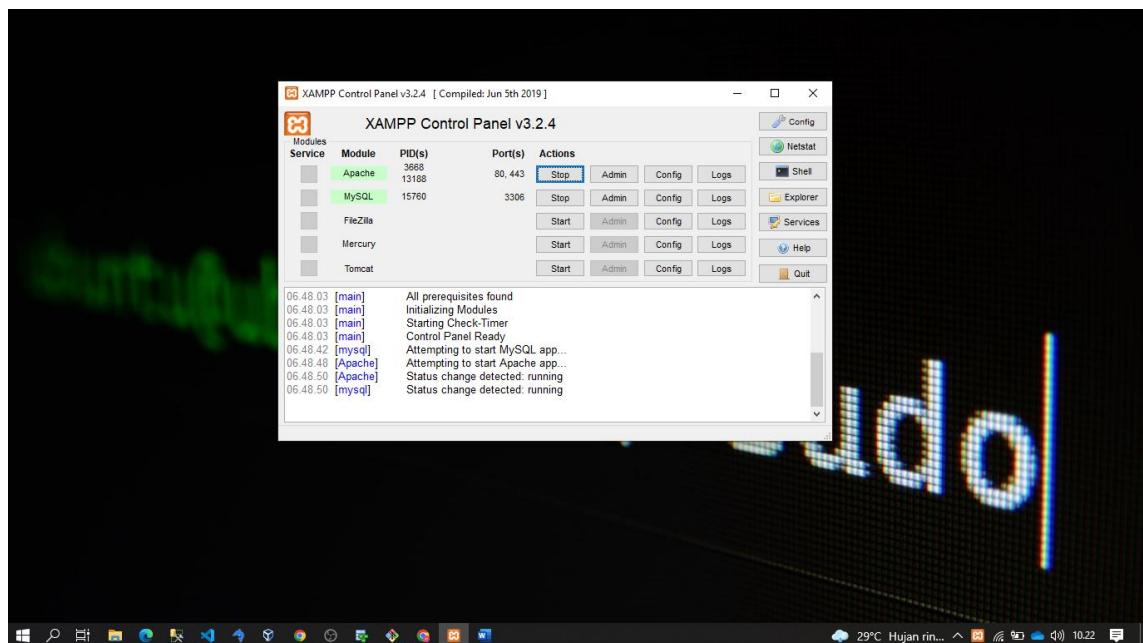
## B. Peralatan yang digunakan

1. Web Editor : Visual Studio Code
2. Web Browser : Google Chrome
3. OS PC : Windows 10
4. XAMPP : versi 7.2
5. Composer Ci4
6. Git bash

## C. Hasil Praktikum & Tugas

### A. Mengaktifkan Exampp & php spark serve

1. Pertama di sini kita hidupkan xampp kita seperti gambar di bawah ini



2. Selanjutnya kita hidupkan php spark serve seperti gambar di bawah ini

```

MINGW64:/c/xampp/htdocs/ci4
$ php spark serve

Haldian@DESKTOP-NELAPCB MINGW64 /c/xampp/htdocs/ci4 (main)
$ php spark serve

CodeIgniter v4.1.9 Command Line Tool - Server Time: 2022-06-20 07:51:41 UTC-05:00
CodeIgniter development server started on http://localhost:8080
Press Control-C to stop.
[Mon Jun 20 19:51:41 2022] PHP 8.0.0 Development Server (http://localhost:8080) started

```

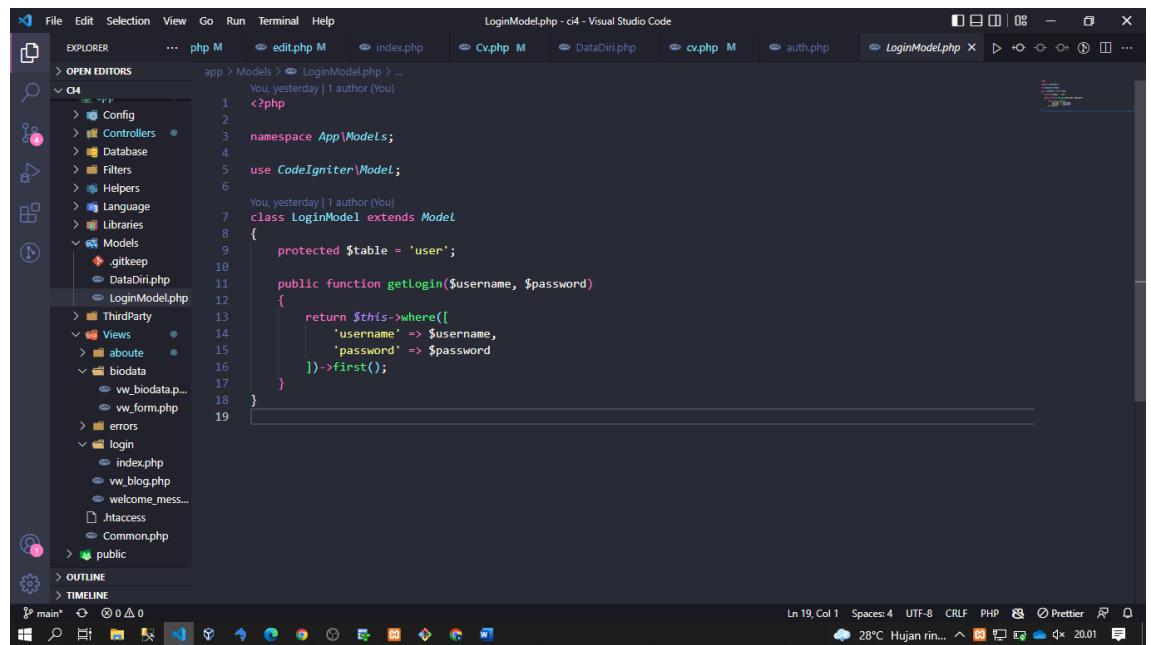
## B. Membuat Database ci4

- Pertama di sini kita buat database dengan nama ci4 kemudian di sini saya membuat 2 buah table dengan nama datadiri dan user seperti gambar di bawah ini

The screenshot shows the phpMyAdmin interface on a Windows desktop. The left sidebar lists databases: Baru, ci4, crud\_db, dbperustakaan, information\_schema, mysql, performance\_schema, phpmyadmin, restful\_db, and test. The main panel shows the 'Basis data: ci4' section with two tables: 'datadiri' and 'user'. Below the table list is a 'Buat tabel' (Create Table) form with 'Nama:' set to 'datadiri' and 'Jumlah kolom:' set to '4'. At the bottom right of the form is a 'Kirim' (Send) button.

Tabel	Aksi	Baris	Jenis	Penyortiran	Ukuran	Beban
datadiri	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	1	InnoDB	utf8mb4_general_ci	16.0 KB	-
user	Jelajahi Struktur Cari Tambahkan Kosongkan Hapus	2	InnoDB	utf8mb4_general_ci	16.0 KB	-
		2 tabel	Jumlah		32.0 KB	0 B

2. Selanjutnya pada ci4 pada bagian models kita buat **models** baru dengan nama models LoginModel di mana LoginModel ini untuk mengkoneksikan halaman login kita dengan database dimana scriptnya seperti gambar di bawah ini

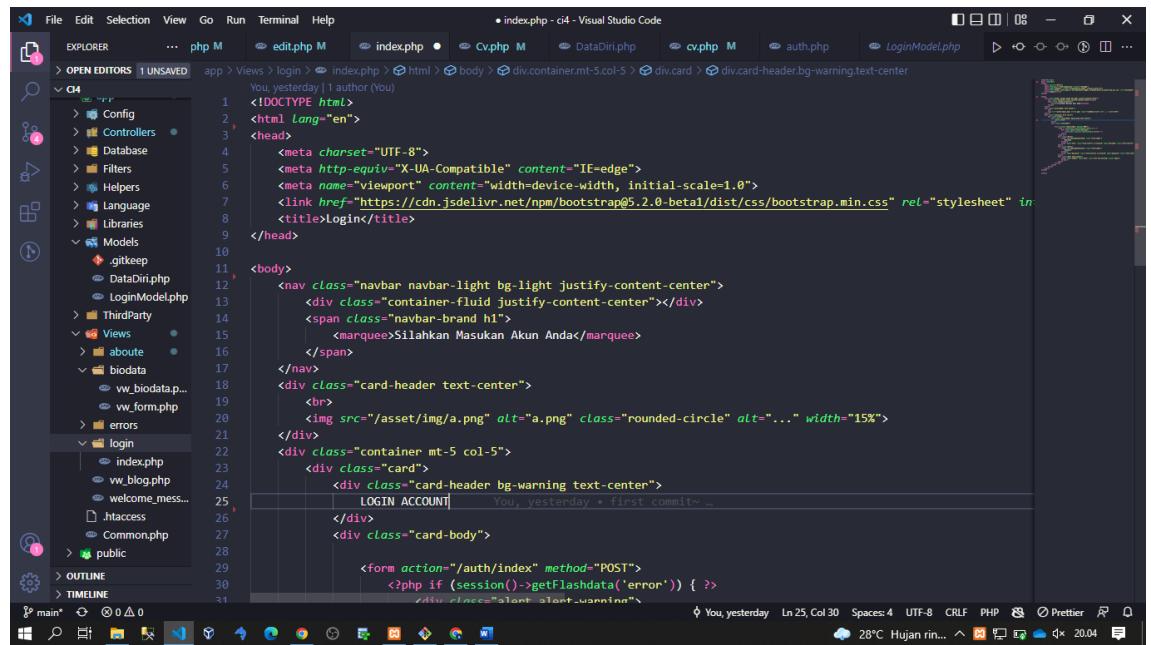


```

File Edit Selection View Go Run Terminal Help
LogInModel.php - ci4 - Visual Studio Code
EXPLORER ... php M edit.php M index.php Cv.php M DataDir.php cv.php M auth.php LogInModel.php
OPEN EDITORS app > Models > LogInModel.php ...
You, yesterday | 1 author (You)
1 <?php
2
3 namespace App\Models;
4
5 use CodeIgniter\Model;
6
7 You, yesterday | 1 author (You)
8 class LogInModel extends Model
9 {
10     protected $table = 'user';
11
12     public function getLogin($username, $password)
13     {
14         return $this->where([
15             'username' => $username,
16             'password' => $password
17         ])->first();
18     }
19

```

3. Selanjutnya kita buat **view** baru disini saya membuat view baru di dalam folder login dengan nama indeks kemudian sayabuat script login dengan menggunakan framwork bootsrap seperti gambar di bawah ini



```

File Edit Selection View Go Run Terminal Help
index.php - ci4 - Visual Studio Code
EXPLORER ... php M edit.php M index.php Cv.php M DataDir.php cv.php M auth.php LogInModel.php
OPEN EDITORS app > Views > login > index.php ...
You, yesterday | 1 author (You)
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     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="...
8     <title>Login</title>
9 </head>
10 <body>
11     <nav class="navbar navbar-light bg-light justify-content-center">
12         <div class="container-fluid justify-content-center"></div>
13         <span class="navbar-brand h1">
14             <marquee>Silahkan Masukan Akun Anda</marquee>
15         </span>
16     </nav>
17     <div class="card-header text-center">
18         <br>
19         
20     </div>
21     <div class="container mt-5 col-5">
22         <div class="card">
23             <div class="card-header bg-warning text-center">
24                 LOGIN ACCOUNT You, yesterday * first commit ...
25             </div>
26             <div class="card-body">
27                 <form action="/auth/index" method="POST">
28                     <?php if ($session->getflashdata('error')) { ?>
29                         <div class="alert alert-warning">

```

The screenshot shows the Visual Studio Code interface with the file `index.php` open. The code is a PHP script for a login form. It includes session handling, form validation, and a password hashing check. The code is well-formatted with syntax highlighting.

```
File Edit Selection View Go Run Terminal Help
OPEN EDITORS 1 UNSAVED app > Views > login > index.php > html > body > div.container.mt-5.col-5
C4
31     <div class="alert alert-warning">
32         <?php echo session()->getFlashdata('error') ?>
33     </div>
34     <div class="mb-3">
35         <label for="MasukkanUsername" class="form-label">
36             Username
37         </label>
38         <input type="text" class="form-control is-invalid" name="username" class="form-control" value="MasukkanUsername" id="MasukkanUsername" required="required" />
39     </div>
40     <div class="mb-3">
41         <label for="MasukkanPassword" class="form-label">
42             Password
43         </label>
44         <input type="password" class="form-control is-invalid" name="password" class="form-control" value="MasukkanPassword" id="MasukkanPassword" required="required" />
45     </div>
46     <div class="mb-3 text-center">
47         <input type="submit" name="auth" class="btn btn-warning" value="Login" />
48     </div>
49     </form>
50 </div>
51 </div>
52 </div>
53 </div>
54 </div>
55 </body>
56 </html>
```

4. Selanjutnya kita buat **controller** untuk loginnya di sini saya beri nama auth yang di mana sudah melakukan validasi login dengan script seperti gambar di bawah ini

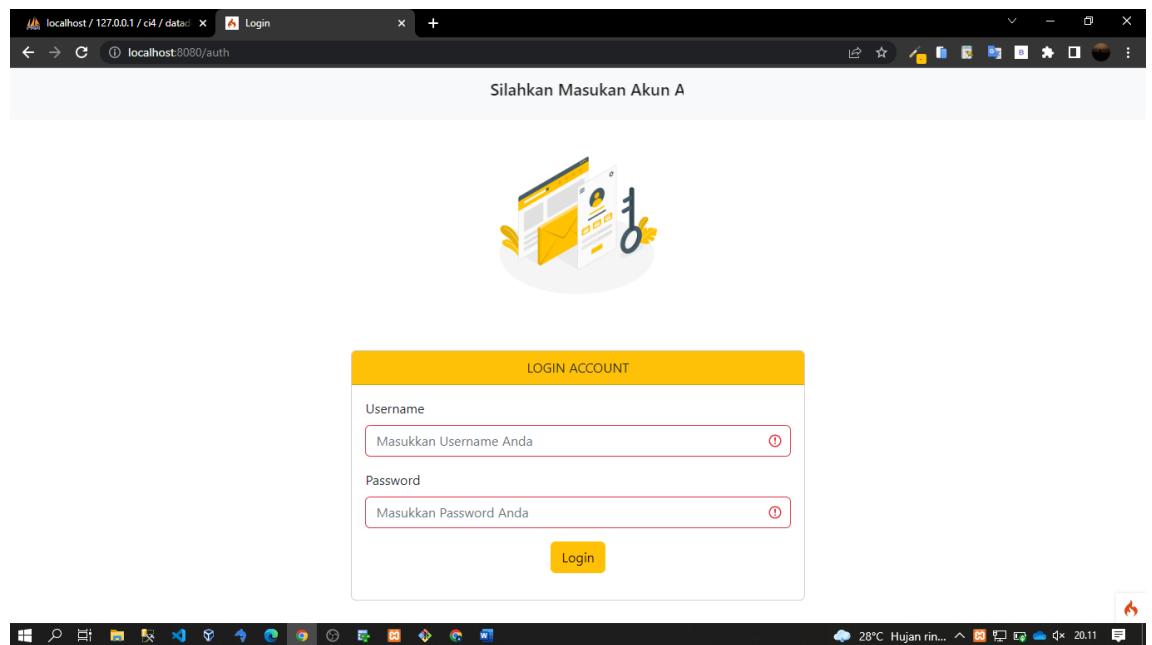
The screenshot shows the Visual Studio Code interface with the file `auth.php` open. The code defines a new controller named `auth` which extends the `BaseController`. It contains an `index()` method that handles user input for login, checks for empty fields, performs password hashing verification, and stores session data if successful. The code uses namespaces and various PHP functions like `request`, `getPost`, and `md5`.

```
File Edit Selection View Go Run Terminal Help
OPEN EDITORS 2 UNSAVED app > Controllers > auth.php > auth
C4
1 <?php
2
3 namespace App\Controllers;
4 You, yesterday | 1 author (You)
5 class auth extends BaseController
6 {
7     public function index()
8     {
9         $LoginModel = new \App\Models\LoginModel();
10        $auth = $this->request->getPost('auth');
11        if ($auth) {
12            $username = $this->request->getPost('username');
13            $password = $this->request->getPost('password');
14
15            if ($username == '' or $password == '') {
16                $err = "Silahkan Masukkan Username dan Password";
17            }
18            if (empty($err)) {
19                $datauser = $LoginModel->where("username", $username)->first();
20                if ($datauser['password'] != md5($password)) {
21                    $err = "Password Tidak Sesuai";
22                }
23            }
24            if (empty($err)) {
25                $usersesi = [
26                    'username' => $datauser['username'],
27                    'password' => $datauser['password']
28                ];
29                session()->set($usersesi);
30                return redirect()->to('cv');
31            }
32        }
33    }
34}
```

```
File Edit Selection View Go Run Terminal Help
auth.php - c4 - Visual Studio Code
OPEN EDITORS 2 UNSAVED
app > Controllers > auth.php > index
30     return redirect()->to('cv');
31 }
32 if ($err) {
33     session()->setflashdata('username', $username);
34     session()->setflashdata('error', $err);
35     return redirect()->to('auth');
36 }
37 echo view('login/index');
38
39 }
40
41
You, yesterday Ln 17, Col 14 Spaces: 4 UTF-8 CRLF PHP Prettier
28°C Hujan rin... 20.07
```

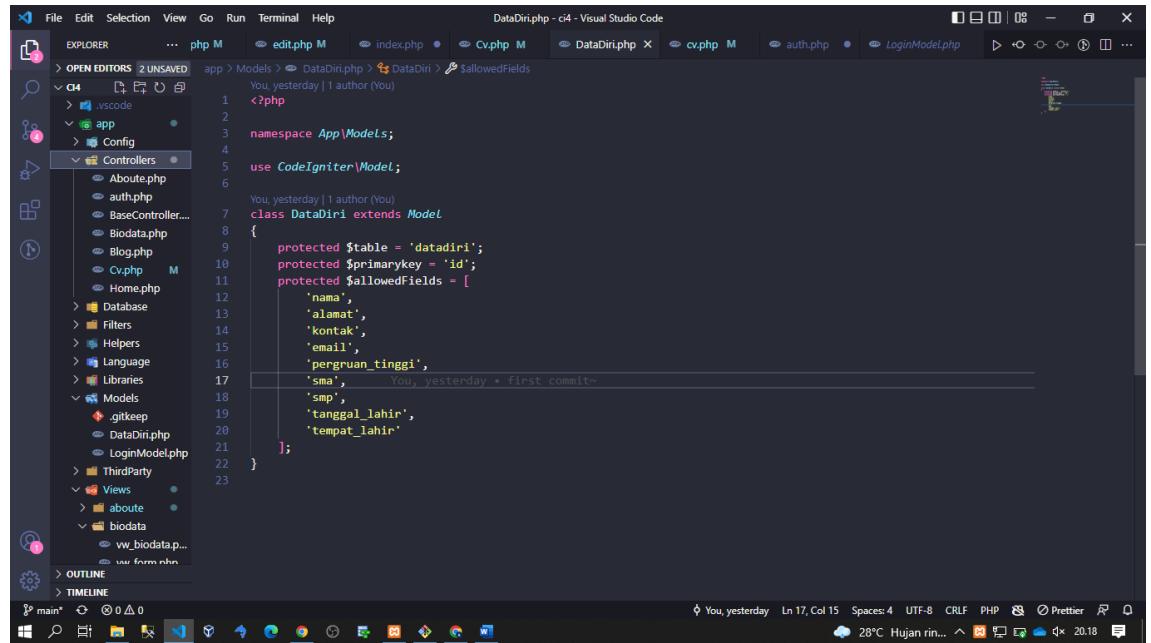
## C. Uji Coba Login

Selanjutnya kita untuk uji coba kita masuk ke webbrowser kita dengan mengetikan <http://localhost:8080/auth> maka akan seperti gambar di bawah ini dimana login sudah memiliki validasi login



## D. Cv Terkoneksi database

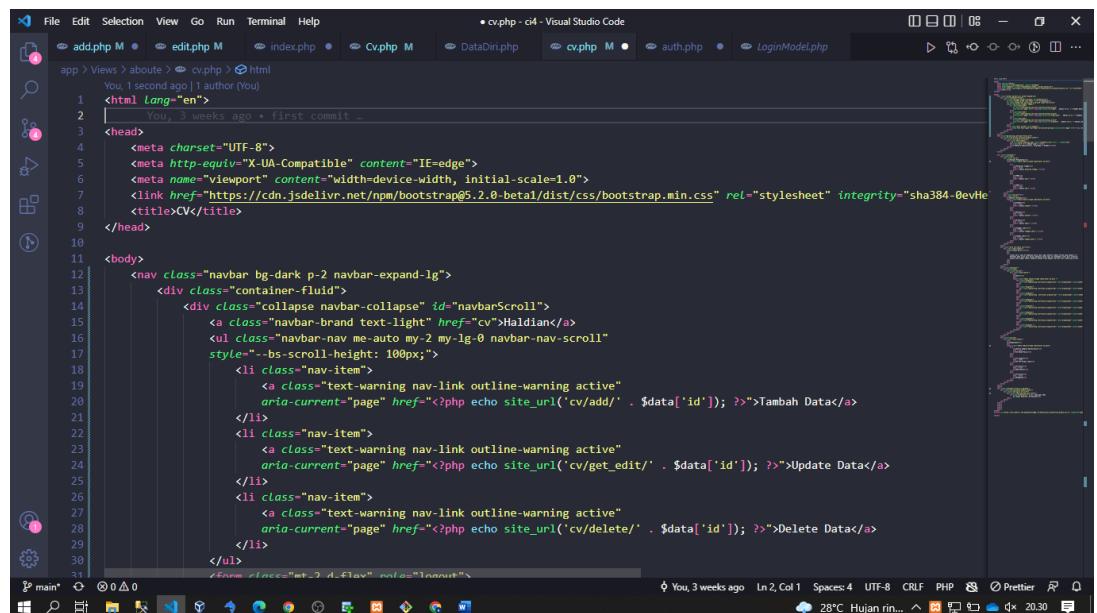
1. Selanjutnya di sini kita membuat sebuah models baru dengan nama datadiri yang di mana di gunakan untuk menghubungkan database dengan mvc yang di mana isi dari models datadiri seperti gambar di bawah ini



```
<?php
namespace App\Models;
use CodeIgniter\Model;

class DataDiri extends Model
{
    protected $table = 'datadiri';
    protected $primaryKey = 'id';
    protected $allowedFields = [
        'nama',
        'alamat',
        'kontak',
        'email',
        'pergruan_tinggi',
        'sma',
        'smp',
        'tanggal_lahir',
        'tempat_lahir'
    ];
}
```

2. Selanjutnya kita buat sebuah *view* dengan nama cv yang di mana tersimpan di dalam folder aboute dengan script seperti gambar di bawah ini



```
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0vJba0+Ls4zrKclQXIPBXo+11Jq9P8I37WwWfBT33Ht2Iu1+qA70Iar1+aJQ==">
    <title>CV</title>
</head>
<body>
    <nav class="navbar bg-dark p-2 navbar-expand-lg">
        <div class="container-fluid">
            <div class="collapse navbar-collapse" id="navbarScroll">
                <a class="navbar-brand text-light" href="#">Haldian</a>
                <ul class="navbar-nav me-auto my-2 my-lg-0 navbar-nav-scroll" style="--bs-scroll-height: 100px;">
                    <li class="nav-item">
                        <a class="text-warning nav-link outline-warning active" aria-current="page" href="#">php echo site_url('cv/add') . $data['id']; ?&gt;"Tambah Data</a>
                    </li>
                    <li class="nav-item">
                        <a class="text-warning nav-link outline-warning active" aria-current="page" href="#">php echo site_url('cv/get_edit/' . $data['id']); ?&gt;"Update Data</a>
                    </li>
                    <li class="nav-item">
                        <a class="text-warning nav-link outline-warning active" aria-current="page" href="#">php echo site_url('cv/delete/' . $data['id']); ?&gt;"Delete Data</a>
                    </li>
                </ul>
            </div>
        </div>
    </nav>

```

The image shows two side-by-side instances of the Visual Studio Code (VS Code) code editor running on a Windows operating system. Both instances have the title bar "cv.php - ci4 - Visual Studio Code".

**Top Window:**

- File Path: app > cv.php > html > body > nav.navbar.bg-dark.p-2.navbar-expand-lg > div.container-fluid > div.navbarScroll.collage.navbar-collapse > form.mt-2.d-flex > a.btn.text-light.text-light.btn-outline-warning
- Code Snippet:

```
30         </ul>
31         <form class="mt-2 d-flex" role="logout">
32             <a class="btn text-light text-light btn-outline-warning"
33                 aria-current="page" href="=php echo site_url('cv/logout') . $data['id'];?>Logout</a>
```
- Bottom Status Bar: You, now | Uncommitted, Ln 33, Col 21, Spaces: 4, UTF-8, CRLF, PHP, Prettier, 28°C Hujan rin..., 20.30

**Bottom Window:**

- File Path: app > Views > aboute > cv.php > html > body > div.container > divrow
- Code Snippet:

```
60             </td>
61             <br>
62             <tr>
63                 <td>SMA</td>
64                 <td> : </td>
65                 <td><?= $data['sma'] ?></td>
66             </tr>
67             <br>
68             <tr>
69                 <td>SMP</td>
70                 <td> : </td>
71                 <td><?= $data['smp'] ?></td>
72             </tr>
73         </table>
74     </div>
75     <div class="col-3"></div>
76     <div class="col-4">
77         <h3>Detail Informasi</h3>
78         <table class="table table-striped table-hover mx-auto">
79             <tr>
80                 <td>Alamat</td>
81                 <td> : </td>
82                 <td><?= $data['alamat'] ?></td>
83             </tr>
84             <br>
85             <tr>
86                 <td>Kontak</td>
87                 <td> : </td>
88                 <td><?= $data['kontak'] ?></td>
89             </tr>
90         </table>
91     </div>
92 
```
- Bottom Status Bar: You, 3 weeks ago | Ln 51, Col 26, Spaces: 4, UTF-8, CRLF, PHP, Prettier, 28°C Hujan rin..., 20.31

The image shows two instances of Visual Studio Code side-by-side, both displaying PHP code related to a CV application.

**Top Window:**

- File: cv.php - ci4 - Visual Studio Code
- Content: A portion of a PHP template file (cv.php) showing form fields for personal information like email, birth date, and birth place.
- Code snippet:

```
<tr>
    <td>E-mail</td>
    <td> : </td>
    <td><?php $data['email'] ?></td>
</tr>
<tr>
    <td>Tanggal Lahir</td>
    <td> : </td>
    <td><?php $data['tanggal_lahir'] ?></td>
</tr>
<tr>
    <td>Tempat Lahir</td>
    <td> : </td>
    <td><?php $data['tempat_lahir'] ?></td>
```
- Bottom status bar: You, yesterday Ln 103, Col 62 Spaces: 4 UTF-8 CRLF PHP Prettier

**Bottom Window:**

- File: cv.php - ci4 - Visual Studio Code
- Content: A portion of a PHP template file (cv.php) showing a table with progress bars for skills.
- Code snippet:

```
<div class="row">
    <div class="col-12">
        <div class="text-center">
            <br>
            <h1>Skill</h1>
            <br>
            <table class="table table-striped table-hover mx-auto ">
                <div class="progress">
                    <div class="bg-warning text-black progress-bar" role="progressbar"
                        style="width: 90% aria-valuenow="90" aria-valuemin="0" aria-valuemax="100">HTML</div>
                </div>
                <br>
                <div class="progress">
                    <div class="bg-warning text-black progress-bar" role="progressbar"
                        style="width: 85% aria-valuenow="85" aria-valuemin="0" aria-valuemax="100">CSS</div>
                </div>
                <br>
                <div class="progress">
                    <div class="bg-warning text-black progress-bar" role="progressbar"
                        style="width: 84% aria-valuenow="84" aria-valuemin="0" aria-valuemax="100">JS</div>
                </div>
                <br>
                <div class="progress">
                    <div class="bg-warning text-black progress-bar" role="progressbar"
                        style="width: 85% aria-valuenow="85" aria-valuemin="0" aria-valuemax="100">Node</div>
                </div>
                <br>
                <div class="progress">
                    <div class="bg-warning text-black progress-bar" role="progressbar"
                        style="width: 89% aria-valuenow="89" aria-valuemin="0" aria-valuemax="100">PHP</div>
                </div>
```
- Bottom status bar: You, 3 weeks ago Ln 149, Col 33 Spaces: 4 UTF-8 CRLF PHP Prettier

The screenshot shows two instances of Visual Studio Code side-by-side, both displaying PHP code. The top instance is focused on a file named 'cv.php' and displays a section of code related to a progress bar and a table. The bottom instance is focused on a file named 'app' and displays a section of code related to a table with various service categories.

```
File Edit Selection View Go Run Terminal Help • cv.php - c4 - Visual Studio Code
add.php M edit.php M index.php Cv.php M DataDir.php cv.php M auth.php LoginModel.php
php > html > body > div.container > div.container > div.row > div.col-12 > div.text-center > table.table.table-striped.table-hover.mx-auto. > div.progress. > div.bg-warning.text-black.progress-bar
153 <br>
154 <div class="progress">
155 <div class="bg-warning text-black progress-bar" role="progressbar"
156 style="width: 89%" aria-valuenow="89" aria-valuemin="0" aria-valuemax="100">Database</div>
157 </div>
158 <br>
159 <div class="progress">
160 <div class="bg-warning text-black progress-bar" role="progressbar"
161 style="width: 87%" aria-valuenow="87" aria-valuemin="0" aria-valuemax="100">Java</div>
162 </div>
163 <br>
164 <div class="progress">
165 <div class="bg-warning text-black progress-bar" role="progressbar"
166 style="width: 95%" aria-valuenow="95" aria-valuemin="0" aria-valuemax="100">Network</div>
167 </div>
168 </table>
169 </div>
170 </div>
171 </div>
172 </div>
173 <div class="col-12">
174 <div class="text-center">
175 <br>
176 <h1>Pengalaman</h1>
177 <br>
178 <table class="table table-striped table-hover mx-auto">
179 <tr>
180 <td>Search Engine Optimization</td>
181 <td> : </td>
182 <td>CV. Rumah Mesin</td>
183 </tr>

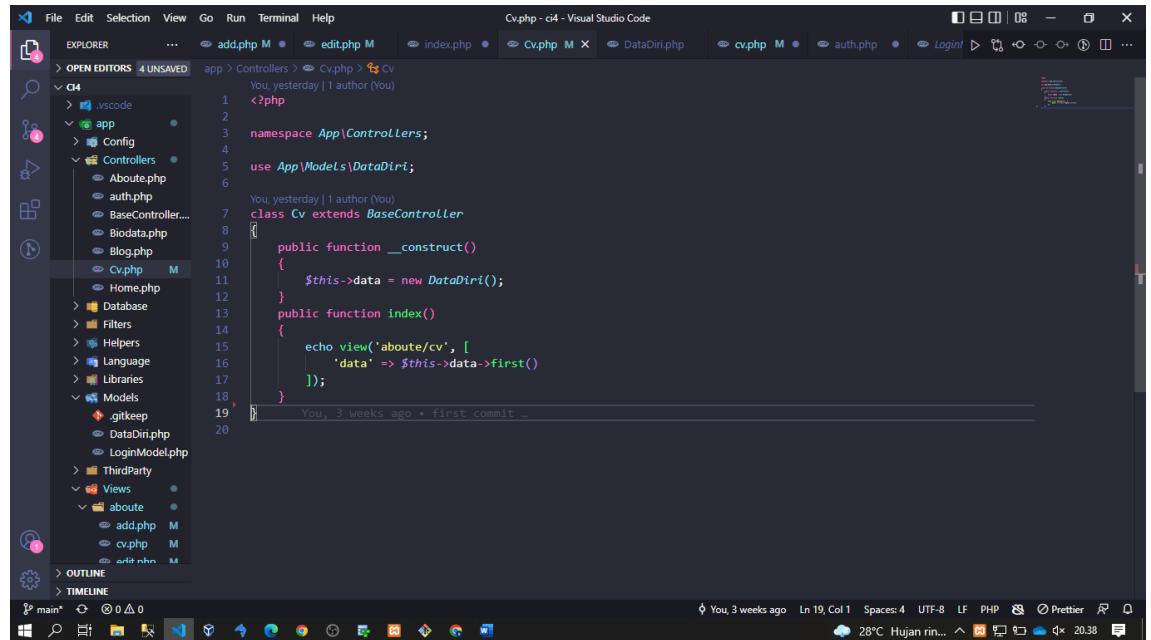
```

Ln 166, Col 33 Spaces: 4 UTF-8 CRLF PHP ⚙️ Prettier 🔍

```
File Edit Selection View Go Run Terminal Help • cv.php - c4 - Visual Studio Code
add.php M edit.php M index.php Cv.php M DataDir.php cv.php M auth.php LoginModel.php
app > Views > aboute > cv.php > html > body > div.container > div.container > div.row > div.col-12
185 <tr>
186 <td>IT Support</td>
187 <td> : </td>
188 <td>PT. FTF Global Indo</td>
189 </tr>
190 <tr>
191 <td>Freelance</td>
192 <td> : </td>
193 <td>Web Desain</td>
194 </tr>
195 <tr>
196 <td>Freelance</td>
197 <td> : </td>
198 <td>Blogging</td>
199 </tr>
200 </table>
201 </div>
202 </div>
203 </div>
204 </div>
205 <div class="container-fluid p-1 bg-dark">
206 <div class="row justify-content-center">
207 <div class="col-lg-12 col-xs-8">
208 <div class="text-warning text-center">
209 <h6 class="fontitalic">&copy; Copyright 2022
210 All Right Reserved. By Haldian</h6>
211 </div>
212 </div>
213 </div>
214 </div>
215 </div>
```

Ln 170, Col 23 Spaces: 4 UTF-8 CRLF PHP ⚙️ Prettier 🔍

- Selanjutnya kita buat controller dengan nama cv dengan script seperti gambar di bawah ini



```

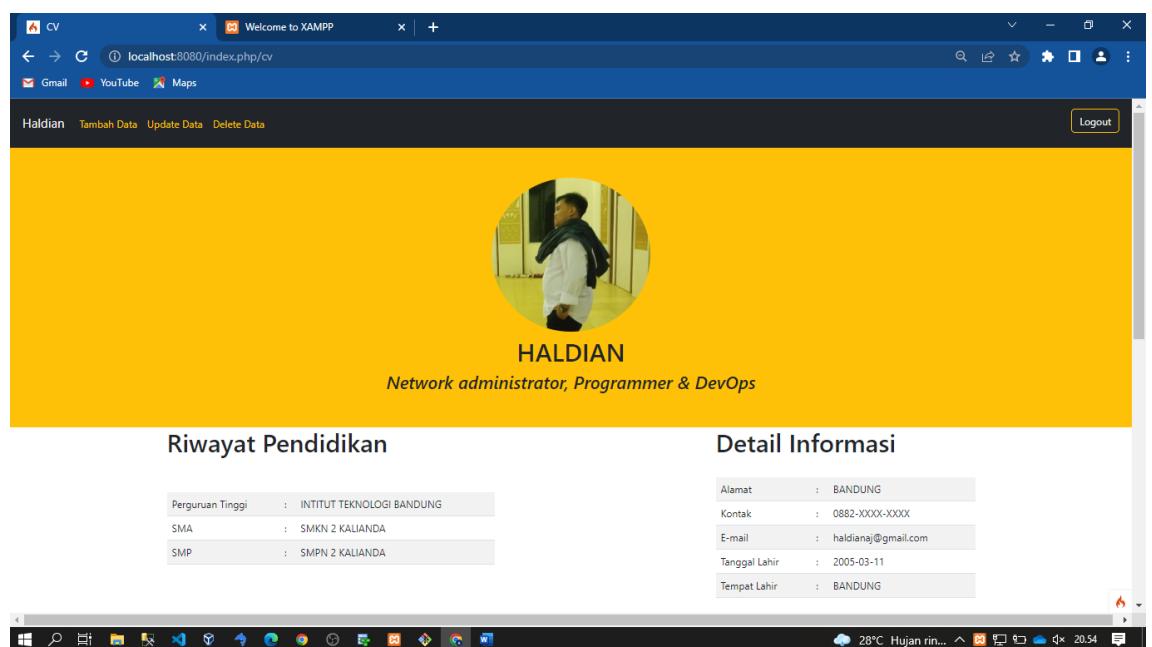
Cv.php - c4 - Visual Studio Code
File Edit Selection View Go Run Terminal Help
OPEN EDITORS 4 UNSAVED
app > Controllers > Cv.php > Cv
You, yesterday | 1 author (You)
1 <?php
2
3 namespace App\Controllers;
4
5 use App\Models\DataDiri;
6
7 You, yesterday | 1 author (You)
8 class Cv extends BaseController
9 {
10     public function __construct()
11     {
12         $this->data = new DataDiri();
13     }
14     public function index()
15     {
16         echo view('aboute/cv', [
17             'data' => $this->data->first()
18         ]);
19     }
20

```

You, 3 weeks ago Ln 19, Col 1 Spaces: 4 UTF-8 LF PHP Prettier 28°C Hujan rin... 20.38

## E. Uji Coba View CV

Selanjutnya kita untuk uji coba kita masuk ke webbrouser kita dengan mengetikan <http://localhost:8080/cv> maka akan seperti gambar di bawah ini dimana kita sudah membuat halaman view CV untuk di kembangkan membuat sebuah CRUD



The screenshot shows a web browser window titled "CV" with the URL "localhost:8080/index.php/cv". The page displays a profile picture of a person and the name "HALDIAN" below it. Below the profile picture, the text "Network administrator, Programmer & DevOps" is visible. At the top of the page, there is a navigation bar with links for "Haldian", "Tambah Data", "Update Data", "Delete Data", and "Logout". On the left side, there is a section titled "Riwayat Pendidikan" containing information about education levels: Perguruan Tinggi (INTITUT TEKNOLOGI BANDUNG), SMA (SMKN 2 KALIANDA), and SMP (SMPN 2 KALIANDA). On the right side, there is a section titled "Detail Informasi" containing personal details: Alamat (BANDUNG), Kontak (0882-XXXX-XXXX), E-mail (haldiana@gmail.com), Tanggal Lahir (2005-03-11), and Tempat Lahir (BANDUNG).

## F. Create and Read

1. Selanjutnya kita buat *view* dengan nama add dalam folder aboute kita yang dimana terintegrasi create and read yang mengambil models dari datadiri dengan script seperti gambar di bawah ini

```
<!DOCTYPE html>
<html Lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" in
<title>Add Data Diri</title>
</head>
<body>
    <div class="container">
        <div class="row">
            <div class="col-lg-12">
                <h1>Form Tambah Data</h1>
            </div>
        </div>
        <form action="cv/simpan" method="POST">
            <div class="row mt-3 form-floatin">
                <div class="col-lg-3">
                    <label for="Nama">Nama</label>
                </div>
                <div class="col-lg-6">
                    <input type="text" class="form-control" name="nama" placeholder="Nama">
                </div>
            </div>
            <div class="row mt-3">
                <div class="col-lg-3">
                    <label for="Perguruan Tinggi">Perguruan Tinggi</label>
                </div>
                <div class="col-lg-6">
                    <input type="text" class="form-control" name="pergruan_tinggi" placeholder="Perguruan Tinggi">
                </div>
            </div>
            <div class="row mt-3">
                <div class="col-lg-3">
                    <label for="SMA">SMA</label>
                </div>
                <div class="col-lg-6">
                    <input type="text" class="form-control" name="sma" placeholder="SMA">
                </div>
            </div>
            <div class="row mt-3">
                <div class="col-lg-3">
                    <label for="SMP">SMP</label>
                </div>
                <div class="col-lg-6">
                    <input type="text" class="form-control" name="smp" placeholder="SMP">
                </div>
            </div>
            <div class="row mt-3">
                <div class="col-lg-3">
                    <label for="Alamat">Alamat</label>
                </div>
                <div class="col-lg-6">
                    <input type="text" class="form-control" name="alamat" placeholder="Alamat">
                </div>
            </div>
        </form>
    </div>
</body>
</html>
```

The screenshot shows the Visual Studio Code interface with the file `about.php` open. The code is a form for adding a new entry. It includes fields for 'Kontak' (name), 'E-Mail' (email), 'Tanggal Lahir' (date of birth), and 'Tempat Lahir' (place of birth). The code uses Bootstrap's grid system with rows and columns.

```
<div class="row mt-3">
    <div class="col-lg-3">
        <label for="Kontak">Kontak</label>
    </div>
    <div class="col-lg-6">
        <input type="text" class="form-control" name="kontak" placeholder="Kontak">
    </div>

    <div class="row mt-3">
        <div class="col-lg-3">
            <label for="">E-Mail</label>
        </div>
        <div class="col-lg-6">
            <input type="email" class="form-control" name="email" placeholder="E-Mail">
        </div>
    </div>

    <div class="row mt-3">
        <div class="col-lg-3">
            <label for="">Tanggal Lahir</label>
        </div>
        <div class="col-lg-6">
            <input type="date" class="form-control" name="tanggal_lahir" placeholder="Tanggal Lahir">
        </div>
    </div>

    <div class="row mt-3">
        <div class="col-lg-3">
            <label for="">Tempat Lahir</label>
        </div>
    </div>
```

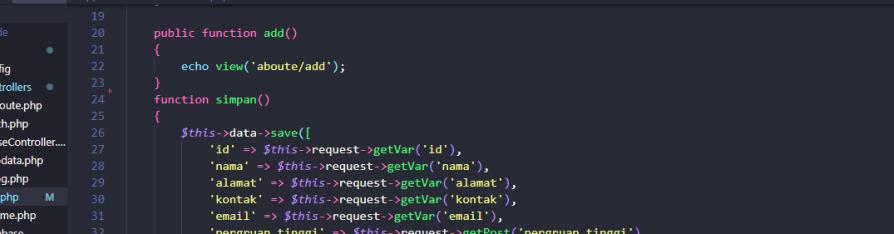
This screenshot shows the same `about.php` file as above, but with several lines of code removed from the middle of the form section. Lines 100 through 113 are missing, which correspond to the 'Tempat Lahir' (place of birth) field and its associated label and input.

```
<div class="row mt-3">
    <div class="col-lg-3">
        <label for="Tanggal Lahir">Tanggal Lahir</label>
    </div>
    <div class="col-lg-6">
        <input type="date" class="form-control" name="tanggal_lahir" placeholder="Tanggal Lahir">
    </div>

    <div class="row mt-3">
        <div class="col-lg-3">
            <label for="">Tempat Lahir</label>
        </div>
        <div class="col-lg-6">
            <input type="text" class="form-control" name="tempat_lahir" placeholder="Tempat Lahir">
        </div>
    </div>

    <div class="row mt-3">
        <div class="col-lg-9">
            <button class="btn btn-primary" type="submit">Simpan</button>
        </div>
    </div>
</form>
```

2. Selanjutnya pada controller CV kita buat method baru dengan nama simpan dan metod add yang menampilkan add data dengan script seperti gambar di bawah ini

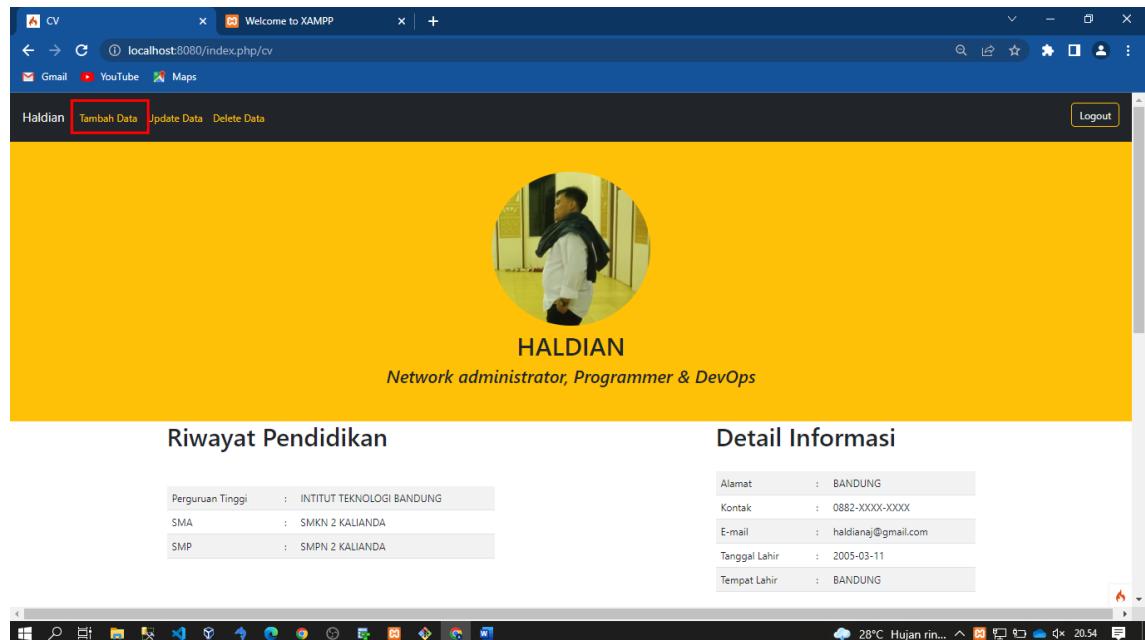


The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it lists the project structure. The `Cv.php` file is open in the editor, and other files like `add.php`, `edit.php`, `index.php`, `DataDiri.php`, `cv.php`, `auth.php`, and `Login.php` are shown as unsaved changes.
- Editor:** The main area contains the PHP code for the `Cv.php` controller. The code handles adding new data to a database table, specifically for a 'aboute' entity. It uses the `data->save()` method to insert data from request variables into the database table.
- Status Bar:** At the bottom, it shows the current file is `Cv.php`, line 41, column 1. It also indicates 4 unsaved changes. The status bar also includes icons for search, replace, and file operations.

### **G. Uji Coba Create atau Add Data**

1. Selanjutnya kita untuk uji coba kita masuk ke webbrouser kita dengan mengetikan <http://localhost:8080/cv> yang di mana pada halaman cv ini sudah saya buatakan buton Tambah Data seperti gambar kotak merah di bawah ini



2. Selanjutnya setelah kita klik button Tambah Data maka akan tampil halaman add seperti gambar di bawah ini

From Tambah Data

Nama	Haldian
Perguruan Tinggi	POLITEKNIK NEGRI LAMPUNG
SMA	SMKN 2 KALIANDA
SMP	SMPN 2 KALIANDA
Alamat	BELAMBANGAN
Kontak	0853-XXXX-XXXX
E-Mail	aldi@gmail.com
Tanggal Lahir	11/03/2001
Tempat Lahir	BELAMBANGAN

**simpan**



3. Selanjutnya kita simpan dan kita cek pada database jika tersimpan maka akan seperti gambar di bawah ini dimana saya hanya mengambil data dari dalam table yang ada di database hanya 1 dengan menggunakan *first* saja pada **controller cv** seperti gambar di bawah ini

Menampilkan baris 0 - 1 (total 2, Pencarian dilakukan dalam 0,0010 detik.)

SELECT \* FROM `datadiri`

	Tampilan semua	Jumlah baris:	25	Saring baris:	Cari di tabel ini	Sort by key:	Tidak ada					
+ Opsi	<input type="checkbox"/>	Ubah	Salin	Hapus	37	HALDIAN BANDUNG	0882-XXXX-XXXX	halidianaj@gmail.com	2005-03-11	BANDUNG	INITITUT TEKNOLOGI BANDUNG	SMKN 2 SMPN 2 KALIANDA KALIANDA
	<input type="checkbox"/>	Ubah	Salin	Hapus	39	Haldian BELAMBANGAN XXXX-XXXX	0853-XXXX-XXXX	aldi@gmail.com	2001-03-11	BELAMBANGAN	POLITEKNIK NEGRI LAMPUNG	SMKN 2 SMPN 2 KALIANDA KALIANDA

## H. Update Data

1. Selanjutnya kita buat **view** dengan nama edit yang dimana **view** ini di gunakan untuk melakukan update dengan script seperti gambar di bawah ini

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0evHe/X+R7k1ZDRuzKMqM+OrBnVFBLGDOitfPrl4tjfHxalutUpFmBp4vM0r" crossorigin="anonymous">
    <title>Add Data Diri</title>
</head>
<body>
    <div class="container">
        <div class="row">
            <div class="col-lg-12">
                <h1>From Update Data</h1>
            </div>
        </div>
        <form action="=$php echo site_url('cv/update'); ?" method="post">
            <div class="row mt-3">
                <div class="col-lg-3">
                    <label for="">Nama</label>
                </div>
                <div class="col-lg-6">
                    <input type="text" class="form-control" name="nama" placeholder="Nama" value="=$nama; ?&gt;"&gt;
                &lt;/div&gt;
                &lt;input type="hidden" name="id" value="<?=$id; ?&gt;"&gt;
            &lt;/div&gt;
        &lt;/form&gt;
    &lt;/div&gt;
&lt;/body&gt;
&lt;/html&gt;</pre  

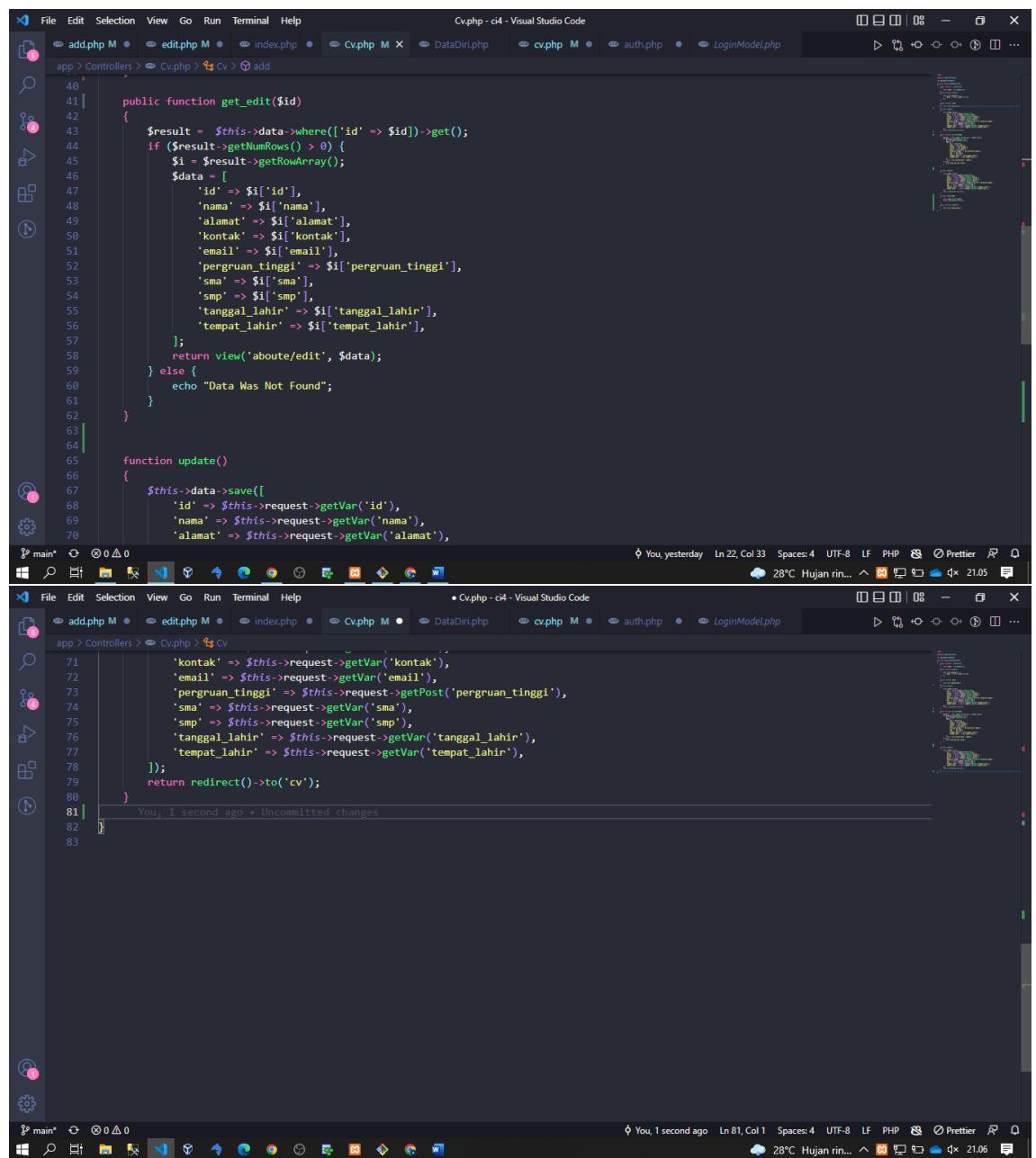

```
<div class="row mt-3">
    <div class="col-lg-3">
        <label for="">Perguruan Tinggi</label>
    </div>
    <div class="col-lg-6">
        <input type="text" class="form-control" name="pergruan_tinggi" placeholder="Perguruan Tinggi" value="=$pergruan_tinggi; ?&gt;"&gt;
    &lt;/div&gt;
&lt;/div&gt;
&lt;div class="row mt-3"&gt;
    &lt;div class="col-lg-3"&gt;
        &lt;label for=""&gt;SMA&lt;/label&gt;
    &lt;/div&gt;
    &lt;div class="col-lg-6"&gt;
        &lt;input type="text" class="form-control" name="sma" placeholder="SMA" value="<?=$sma; ?&gt;"&gt;
    &lt;/div&gt;
&lt;/div&gt;
&lt;div class="row mt-3"&gt;
    &lt;div class="col-lg-3"&gt;
        &lt;label for="floatingInput"&gt;SMP&lt;/label&gt;
    &lt;/div&gt;
    &lt;div class="col-lg-6"&gt;
        &lt;input type="text" class="form-control" name="smp" placeholder="SMP" value="<?=$smp; ?&gt;"&gt;
    &lt;/div&gt;
&lt;/div&gt;
&lt;div class="row mt-3"&gt;
    &lt;div class="col-lg-3"&gt;
        &lt;label for=""&gt;Alamat&lt;/label&gt;
    &lt;/div&gt;
&lt;/div&gt;</pre
```


```

```
File Edit Selection View Go Run Terminal Help • edit.php - c4 - Visual Studio Code
app > Views > aboute > edit.php > html > head > link
64      <div class="col-lg-6">
65          <input type="text" class="form-control" name="alamat" placeholder="Alamat" value="<?= $alamat; ?>">
66      </div>
67
68      <div class="row mt-3">
69          <div class="col-lg-3">
70              <label for="">Kontak</label>
71          </div>
72          <div class="col-lg-6">
73              <input type="text" class="form-control" name="kontak" placeholder="Kontak" value="<?= $kontak ?>">
74          </div>
75      </div>
76
77      <div class="row mt-3">
78          <div class="col-lg-3">
79              <label for="">E-Mail</label>
80          </div>
81          <div class="col-lg-6">
82              <input type="email" class="form-control" name="email" placeholder="E-Mail" value="<?= $email; ?>">
83          </div>
84      </div>
85
86      <div class="row mt-3">
87          <div class="col-lg-3">
88              <label for="">Tanggal Lahir</label>
89          </div>
90          <div class="col-lg-6">
91              <input type="date" class="form-control" name="tanggal_lahir" placeholder="Tanggal Lahir"
92                  value="<?= $tanggal_lahir; ?>">
93          </div>
94      </div>
```

```
File Edit Selection View Go Run Terminal Help • edit.php - c4 - Visual Studio Code
app > Views > aboute > edit.php > html > head > link
94      </div>
95  </div>
96
97      <div class="row mt-3">
98          <div class="col-lg-3">
99              <label for="">Tempat Lahir</label>
100         </div>
101         <div class="col-lg-6">
102             <input type="text" class="form-control" name="tempat_lahir" placeholder="Tempat Lahir"
103                 value="<?= $tempat_lahir; ?>">
104         </div>
105     </div>
106     <div class="row mt-3">
107         <div class="col-lg-9">
108             <button class="btn btn-primary" type="submit">update</button>
109         </div>
110     </div>
111 </div>
112 </form>
113
114 </div>
115
116 </body>
117 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/js/bootstrap.bundle.min.js"
118 integrity="sha384-pprn3073K6t1Gbjs2QrJaJGz5/SUslqktiwsUTF55Jfv3qYSDhgCecXm52nD2" crossorigin="anonymous"></script>
119
120 </html>
```

2. Selanjutnya kita buat **methode** dalam **controller cv** dengan script seperti gambar di bawah ini



```

File Edit Selection View Go Run Terminal Help Cv.php - c4 - Visual Studio Code
add.php M edit.php M index.php Cv.php M DataDir.php cv.php M auth.php LoginModel.php
app > Controllers > Cv.php > Cv.php > add
40
41     public function get_edit($id)
42     {
43         $result = $this->data->where(['id' => $id])->get();
44         if ($result->getNumRows() > 0) {
45             $i = $result->getRowArray();
46             $data = [
47                 'id' => $i['id'],
48                 'nama' => $i['nama'],
49                 'alamat' => $i['alamat'],
50                 'kontak' => $i['kontak'],
51                 'email' => $i['email'],
52                 'pergruan_tinggi' => $i['pergruan_tinggi'],
53                 'sma' => $i['sma'],
54                 'smp' => $i['smp'],
55                 'tanggal_lahir' => $i['tanggal_lahir'],
56                 'tempat_lahir' => $i['tempat_lahir'],
57             ];
58             return view('about/edit', $data);
59         } else {
60             echo "Data Was Not Found";
61         }
62     }
63
64
65     function update()
66     {
67         $this->data->save([
68             'id' => $this->request->getVar('id'),
69             'nama' => $this->request->getVar('nama'),
70             'alamat' => $this->request->getVar('alamat'),
71             'kontak' => $this->request->getVar('kontak'),
72             'email' => $this->request->getVar('email'),
73             'pergruan_tinggi' => $this->request->getPost('pergruan_tinggi'),
74             'sma' => $this->request->getVar('sma'),
75             'smp' => $this->request->getVar('smp'),
76             'tanggal_lahir' => $this->request->getVar('tanggal_lahir'),
77             'tempat_lahir' => $this->request->getVar('tempat_lahir'),
78         ]);
79         return redirect()->to('cv');
80     }
81
82
83

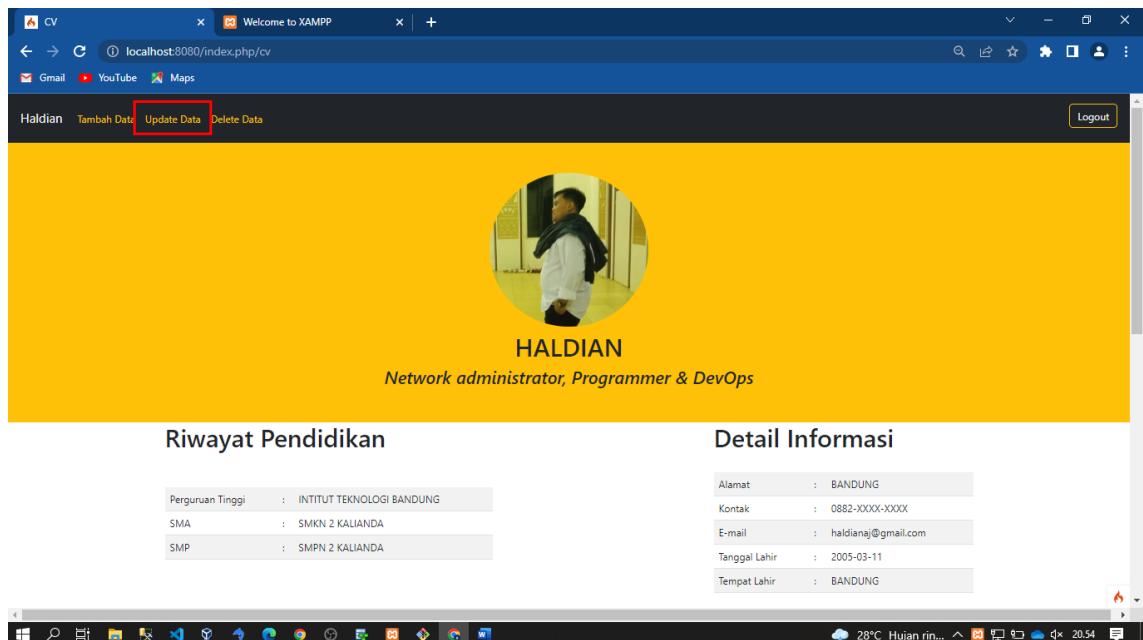
```

You, yesterday Ln 22, Col 33 Spaces: 4 UTF-8 LF PHP Prettier 21.05

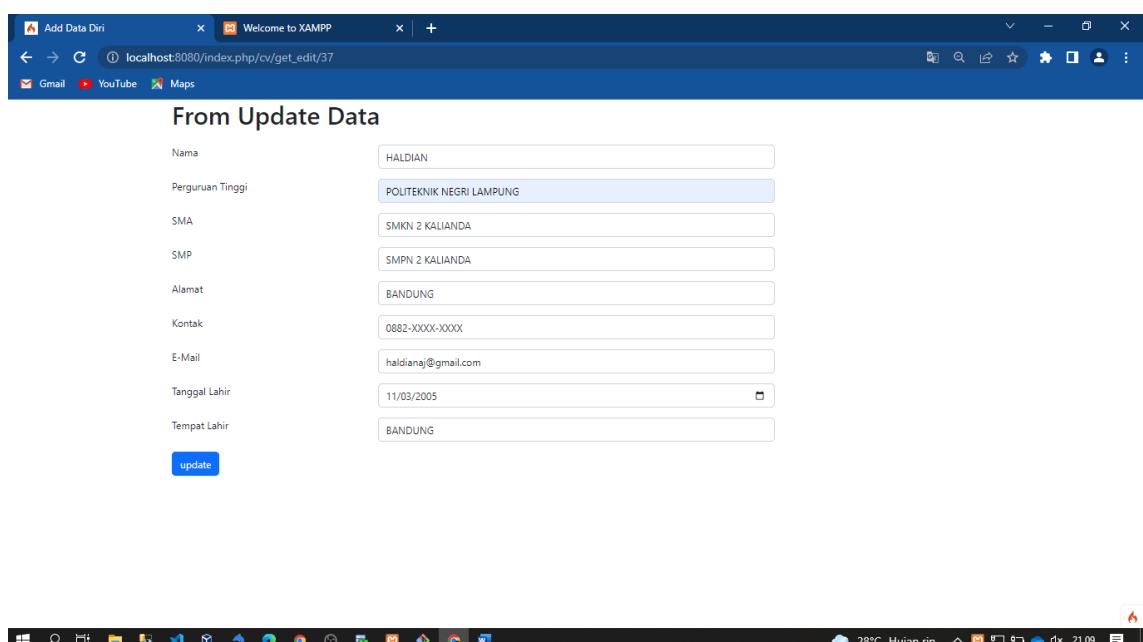
File Edit Selection View Go Run Terminal Help Cv.php - c4 - Visual Studio Code
add.php M edit.php M index.php Cv.php M DataDir.php cv.php M auth.php LoginModel.php
app > Controllers > Cv.php > Cv.php
71
72
73
74
75
76
77
78
79
80
81 You, 1 second ago Ln 81, Col 1 Spaces: 4 UTF-8 LF PHP Prettier 21.06

## I. Uji Coba Update Data

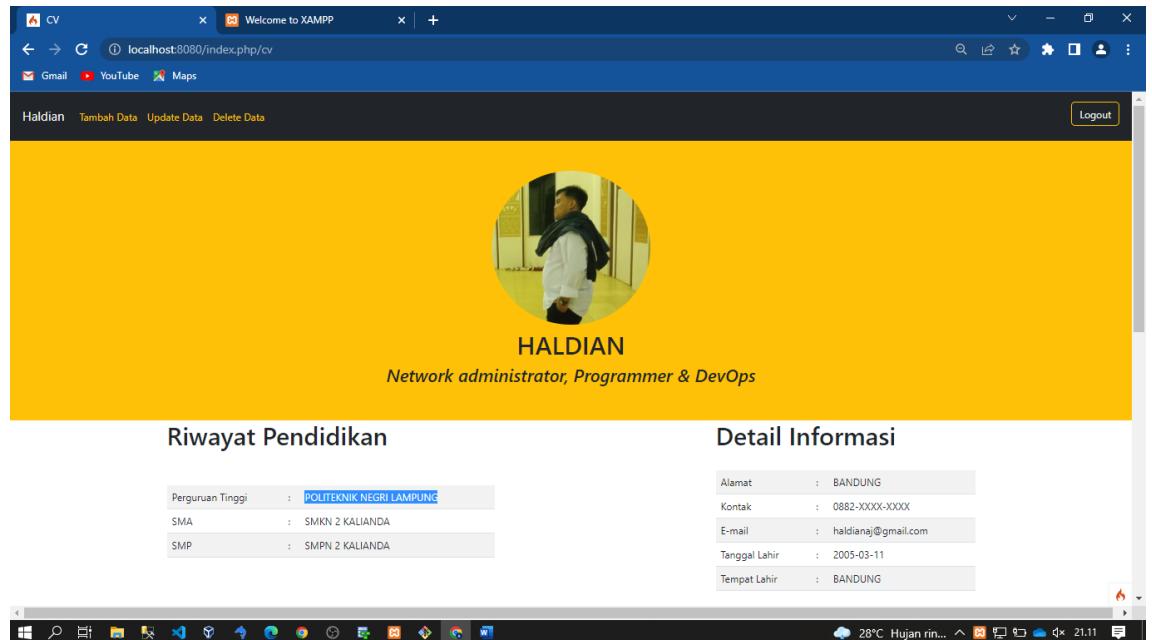
1. Selanjutnya kita untuk uji coba kita masuk ke webbrouser kita dengan mengetikan <http://localhost:8080/cv> yang di mana pada halaman cv ini sudah saya buatakan buton Update Data seperti gambar kotak merah di bawah ini



2. Setelah kita klik button Update Data maka akan tampil halaman data yang ingin kita update di sini saya coba Update nama perguruan tinggi menjadi politeknik negri lampung selanjutnya kita klik update



- Maka hasil setelah kita update data dari perguruan tinggi akan berubah menjadi politeknik negri lampung yang di mana sebelumnya institut teknologi bandung seperti gambar di bawah ini



## J. Delete Data

- Selanjutnya pada Delete data kita cukup menuliskan script delete pada pada methode delete yang berada pada controller cv seperti gambar di bawah ini

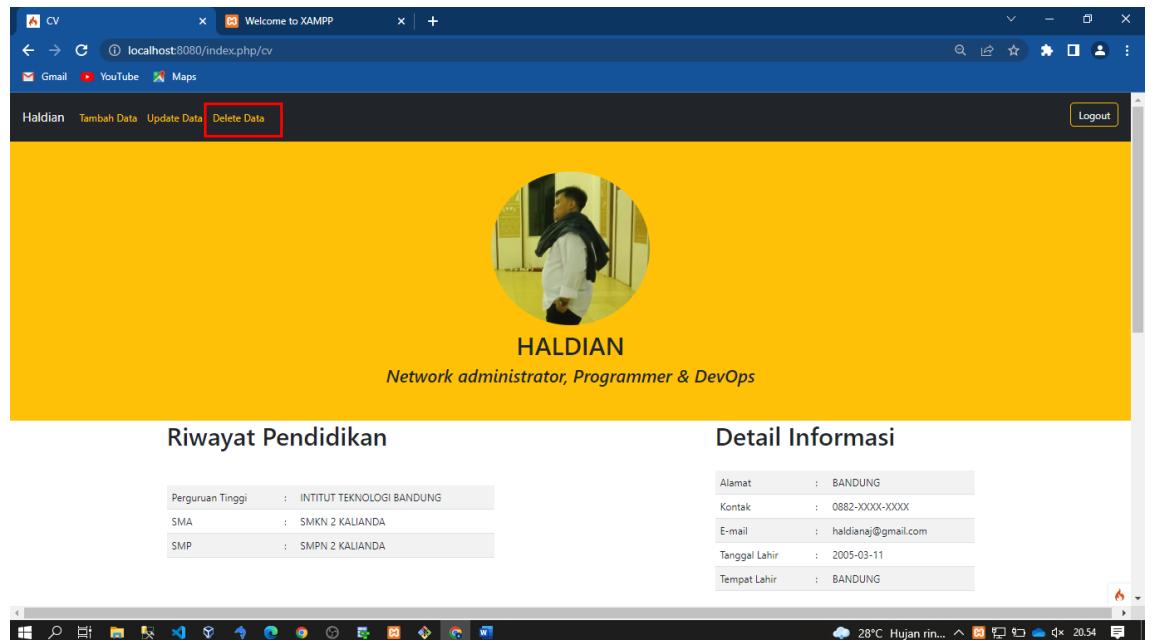
The screenshot shows the 'Cv.php' file in Visual Studio Code. The code editor displays the following PHP code:

```

    81 |         function delete($id)
    82 |     {
    83 |         $this->data->delete($id);
    84 |         return redirect()->to('cv');
    85 |
    86 |
    87 |
    88 |
  
```

The code defines a 'delete' method within a class, which calls the 'delete' method from the 'data' object and then performs a redirect to the 'cv' route.

- Selanjutnya kita klik button Delete Data yang di mana sudah saya buat pada halaman cv seperti gambardi bawah ini



- Selanjutnya kita cek pada database kita di mana di sini ada 2 data seperti gambar di bawah ini

**datadir**

|      | id | nama    | alamat      | kontak         | email               | tanggal_lahir | tempat_lahir | pergruan_tinggi           | sma             | smp             |
|------|----|---------|-------------|----------------|---------------------|---------------|--------------|---------------------------|-----------------|-----------------|
| Ubah | 37 | HALDIAN | BANDUNG     | 0862-XXXX-XXXX | haldianaj@gmail.com | 2005-03-11    | BANDUNG      | POLITEKNIK NEGERI LAMPUNG | SMKN 2 KALIANDA | SMPN 2 KALIANDA |
| Ubah | 39 | Haldian | BELAMBANGAN | 0853-XXXX-XXXX | aldi@gmail.com      | 2001-03-11    | BELAMBANGAN  | POLITEKNIK NEGERI LAMPUNG | SMKN 2 KALIANDA | SMPN 2 KALIANDA |

- Setelah kita klik button delete maka data akan terhapus dan data hanya mentisakan 1 data pada table datadiri kita yang berada pada database seperti gambar di bawah ini

The screenshot shows the phpMyAdmin interface connected to a MySQL database named 'cv'. The left sidebar lists databases like 'Baru', 'c4', and 'test'. The main area displays the 'datadiri' table with one row of data:

|  | id | nama    | alamat                     | kontak         | email      | tanggal_lahir | tempat_lahir             | perguruan Tinggi | sma             | smp |
|--|----|---------|----------------------------|----------------|------------|---------------|--------------------------|------------------|-----------------|-----|
|  | 39 | Haldian | BELAMBANGAN 0853-XXXX-XXXX | aldi@gmail.com | 2001-03-11 | BELAMBANGAN   | POLITEKNIK NEGRI LAMPUNG | SMKN 2 KALIANDA  | SMPN 2 KALIANDA |     |

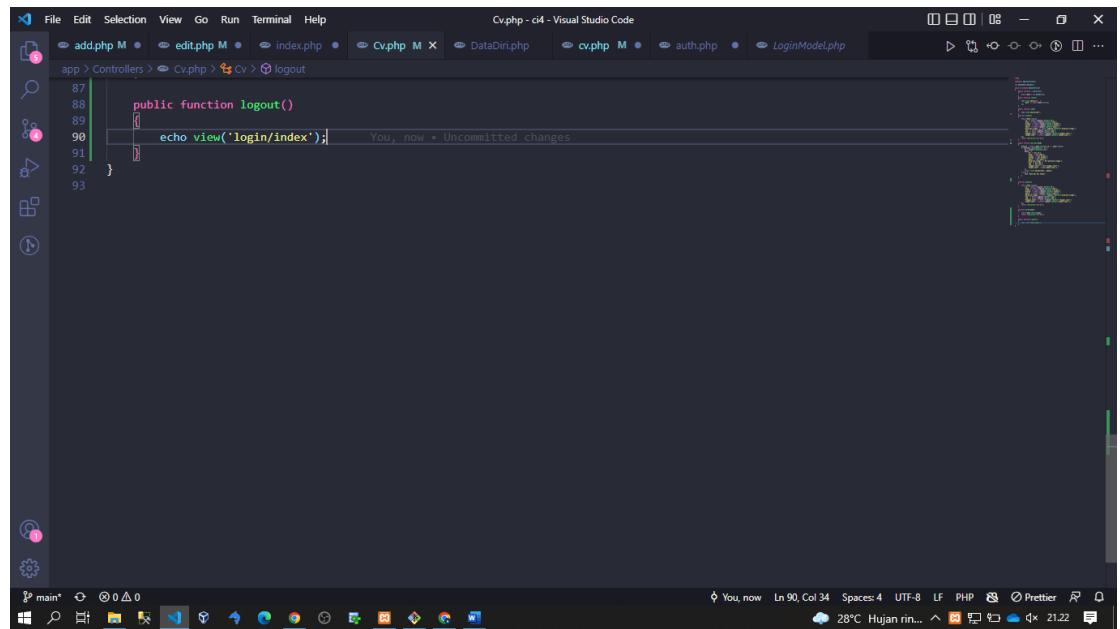
- Selanjutnya jika kita masuk ke halaman cv kita maka data yang pertama hilang kemudian di gantikan dengan data yang ke dua karna kita mengambil data dengan metode first data pada controller kita

The screenshot shows the CV application running on a Windows desktop. The main page features a large circular profile picture of a person, the name "Haldian", and the title "Network administrator, Programmer & DevOps". Below this, there are two sections: "Riwayat Pendidikan" and "Detail Informasi", each displaying a table of data.

| Riwayat Pendidikan                          | Detail Informasi        |
|---|-------------------------|
| Perguruan Tinggi : POLITEKNIK NEGRI LAMPUNG | Alamat : BELAMBANGAN    |
| SMA : SMKN 2 KALIANDA                       | Kontak : 0853-XXXX-XXXX |
| SMP : SMPN 2 KALIANDA                       | E-mail : aldi@gmail.com |

## K. Logout

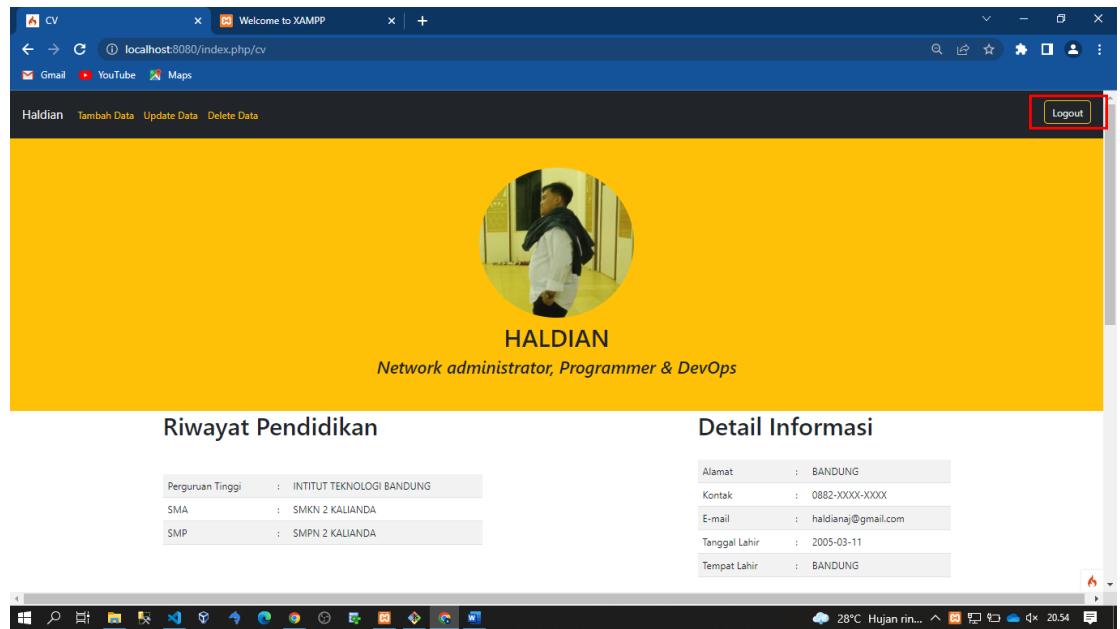
1. Selanjutnya di sini kita buat **methode logout pada controller cv** yang di mana **methode** ini mengarahkan ke halaman **login** jika button pada tombol **logout** di klik seperti gambar di bawah ini



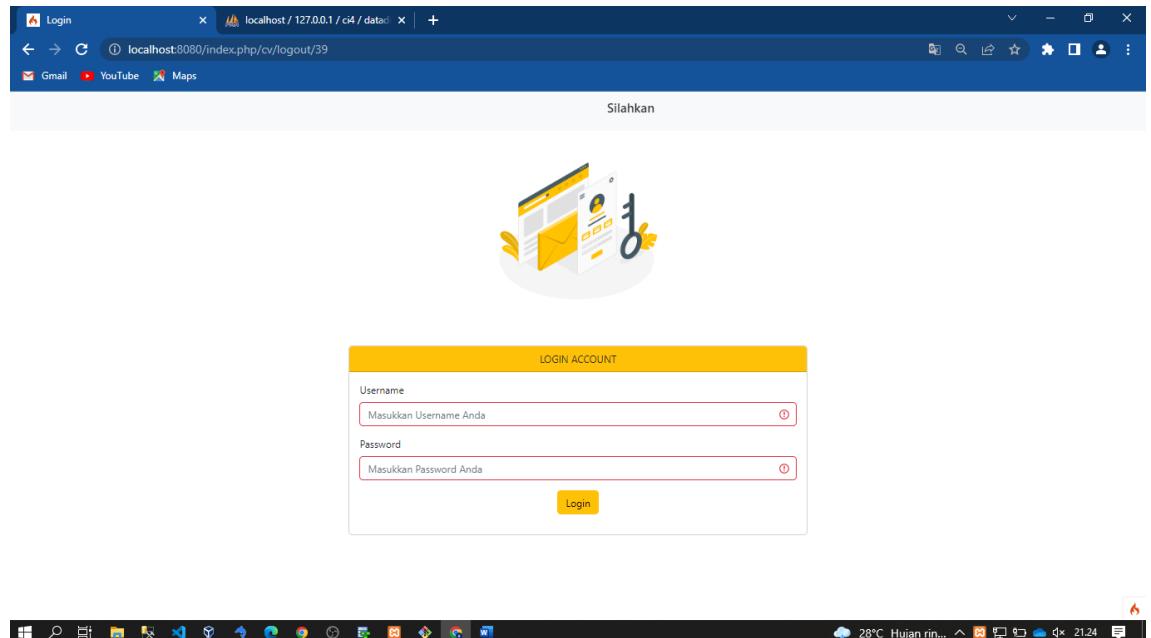
```
File Edit Selection View Go Run Terminal Help
Cv.php - c4 - Visual Studio Code
app > Controllers > Cv.php > Cv > logout
public function logout()
{
    echo view('login/index');
}
You, now = Uncommitted changes
87
88
89
90
91
92
93
```

## L. Uji Coba Logout

1. Selanjutnya kita coba klik button logout yang ada seperti gambar di bawah ini

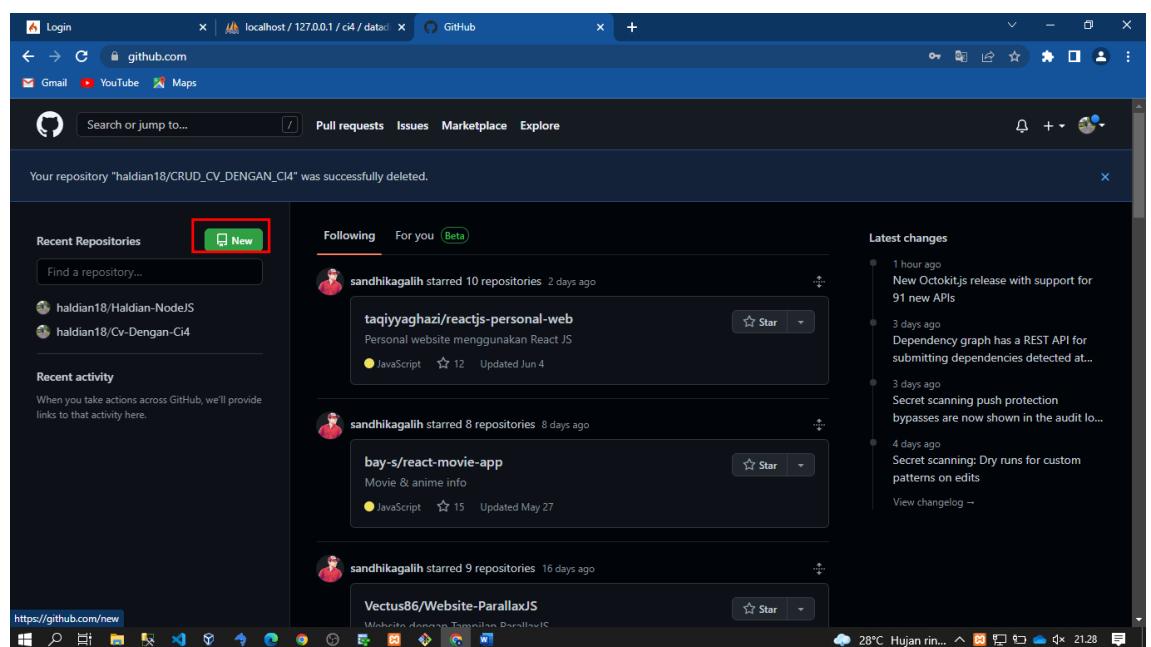


2. Maka kita akan di arahkan ke halaman login seperti gambar di bawah ini

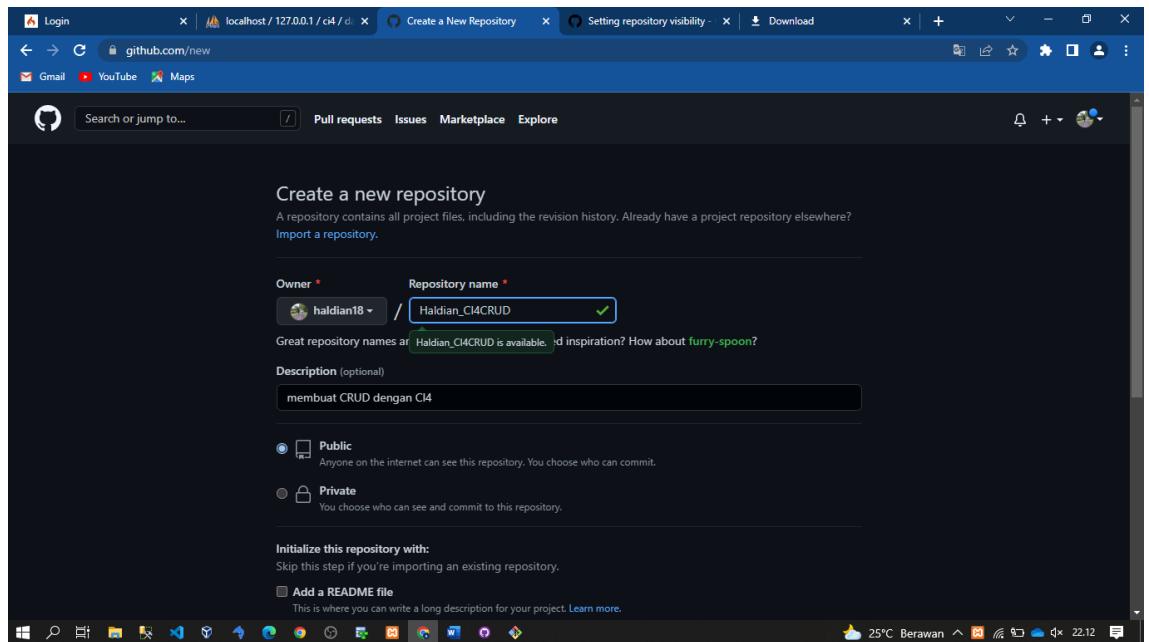


## M.Upload Github

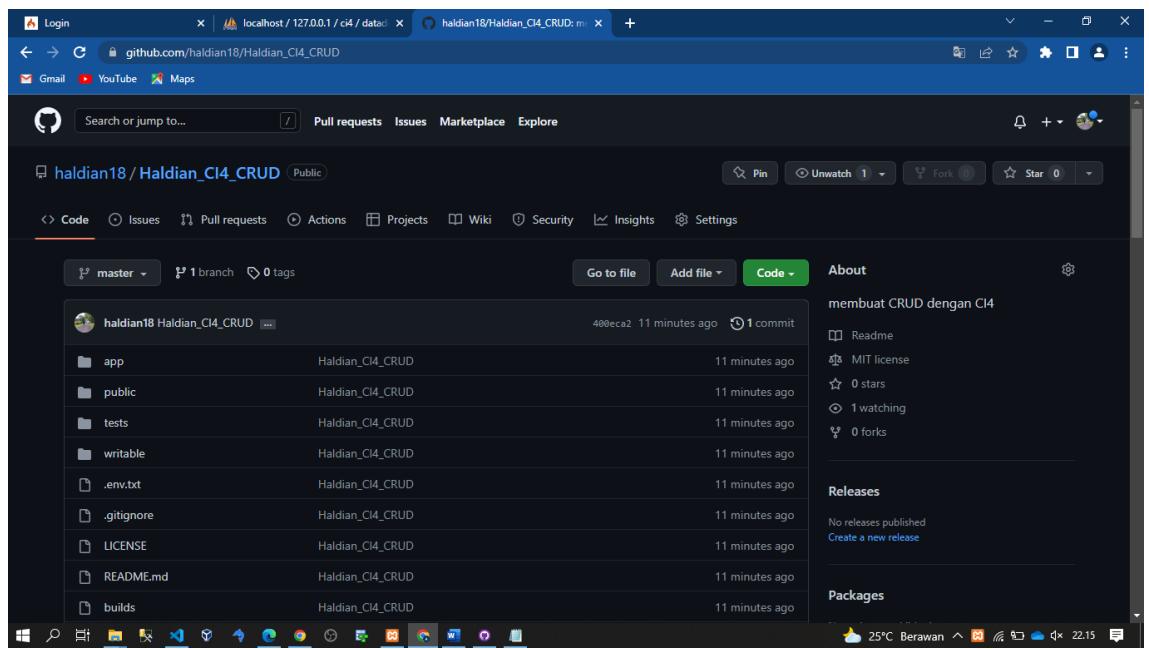
1. Pertama kita masuk ke akun github kita lalu kita klik new seperti gambar di bawah ini



2. Selanjutnya kita beri nama repositorinya Haldian\_CI4\_CRUD dan descriptsinya membuat CRUD dengan CI4 seperti gambar di bawah ini



3. Selanjutnya kita upload maka setelah kita upload folder dan file kita sudah berada di dalam github seperti gambar di bawah ini



4. Berikut ini Link Githubnya

[https://github.com/haldian18/Haldian\\_CI4\\_CRUD](https://github.com/haldian18/Haldian_CI4_CRUD)

## E. Daftar Pustaka

1. Daqiqil, Ibnu. Framework Codeigniter : Sebuah Panduan dan Best Practice. 2011.
2. Tutorislpoint. Codeigniter. 2015. [www.tutorialspoint.com](http://www.tutorialspoint.com)