

Nama : Iwan Sanusi

NIM : 22.240.0080

Kelas : 3P43

## LANGKAH LANGKAH MEMBUAT CRUD UNTUK MENGELOLA DATA BUKU MENGGUNAKAN CODEIGNITER

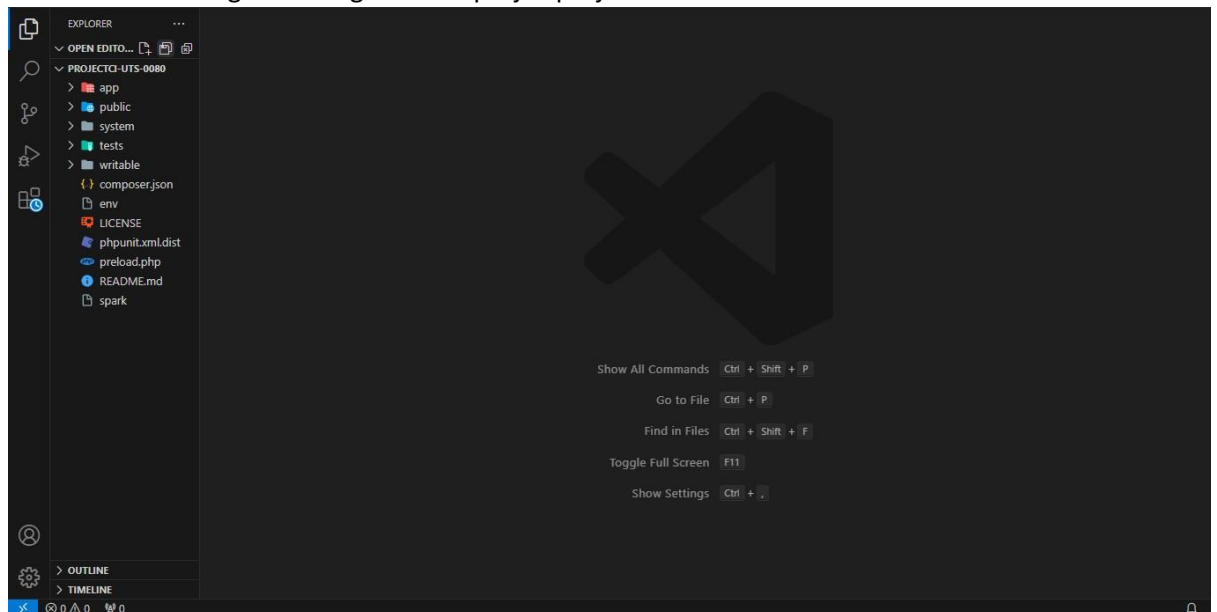
1. Membuat database db\_utsci\_0080 dan membuat tabel tb buku\_0080 dengan struktur seperti berikut



The screenshot shows the phpMyAdmin interface for a database named db\_utsci\_0080. The 'Table structure' tab is selected for the table tb buku\_0080. The table has 8 columns with the following details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	bukukode	varchar(30)	latin1_swedish_ci		No	None			Change Drop More
2	bukujudul	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
3	bukukategori	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
4	bukuhalaman	int(11)			No	None			Change Drop More
5	bukupenerbit	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
6	bukuisbn	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
7	bukuharga	int(11)			No	None			Change Drop More
8	bukusampul	varchar(255)	latin1_swedish_ci		No	None			Change Drop More

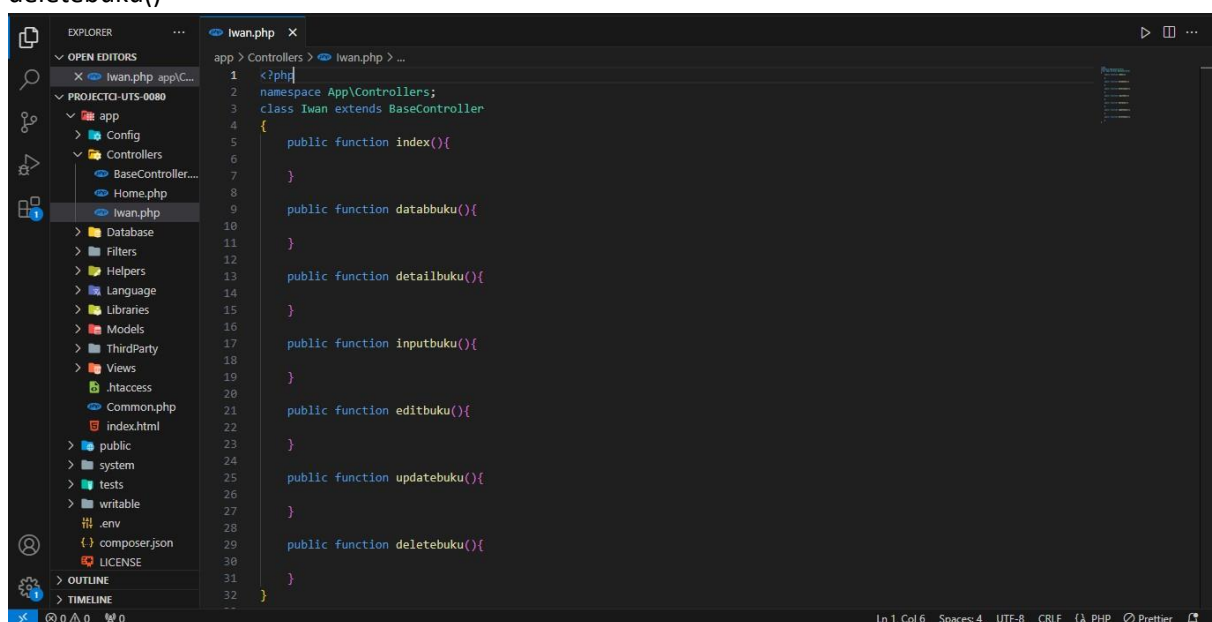
2. Buat folder codeinginter dengan nama proyek projectci-uts-0080



3. Atur konfigurasi untuk terhubung ke dalam database dan konfigurasi lain nya pada file .env

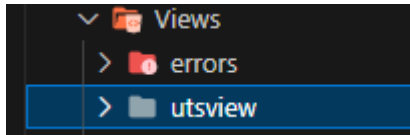
```
13  #-----
14  # ENVIRONMENT
15  #-----
16
17  CI_ENVIRONMENT = development
18
19  #-----
20  # APP
21  #-----
22
23  app.baseUrl = ' http://localhost:8080'
24  # If you have trouble with `.` , you could also use `_.`
25  # app.baseUrl = ''
26  # app.forceGlobalSecureRequests = false
27  # app.CSPEnabled = false
28
29  #-----
30  # DATABASE
31  #-----
32
33  database.default.hostname = localhost
34  database.default.database = db_utsci_0080
35  database.default.username = root
36  database.default.password =
37  database.default.DBDriver = MySQLi
38  database.default.DBPrefix =
39  database.default.port = 3306
40
```

4. Membuat controller dengan nama file Iwan.php, kemudian di dalam controller iwan.php tambahkan function index(), databuku(), inputbuku(), editbuku(), updatebuku(), dan deletebuku()



```
1  <?php
2  namespace App\Controllers;
3  class Iwan extends BaseController
4  {
5      public function index(){
6      }
7
8      public function databuku(){
9      }
10
11     public function detailbuku(){
12     }
13
14     public function inputbuku(){
15     }
16
17     public function editbuku(){
18     }
19
20     public function updatebuku(){
21     }
22
23     public function deletebuku(){
24     }
25 }
26
27
28
29
30
31
32
```

5. Membuat folder utsview pada views yang nantinya digunakan untuk menampilkan halaman



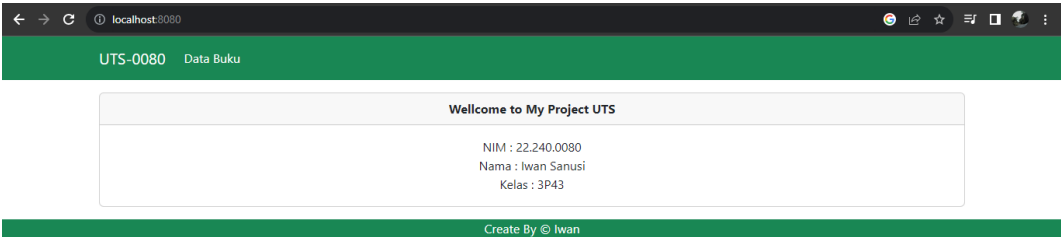
Di dalam folder utsview:

- a. Membuat file mainview.php untuk bagian template utama yang nantinya digunakan untuk template pada halaman lain

```
app > Views > utsview > mainview.php > html > body > nav.navbar.navbar-expand-lg.navbar-dark.bg-success > div.container > a.navbar-brand
1 <!doctype html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1">
6 <title>CRUD Buku</title>
7 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet"
  integrity="sha384-T3c6CoIi6uLrA9TneEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN" crossorigin="anonymous">
8 </head>
9 <body>
10 <!-- Navbar -->
11
12 <nav class="navbar navbar-expand-lg navbar-dark bg-success">
13 <div class="container">
14 <a class="navbar-brand" href="{<?> site_url('/') ?>}">UTS-0080</a>
15 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"
  aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
16 <span class="navbar-toggler-icon"></span>
17 </button>
18 <div class="collapse navbar-collapse" id="navbarNav">
19 <ul class="navbar-nav">
20 <li class="nav-item">
21 <a class="nav-link active" aria-current="page" href="{<?> site_url('/buku/databuku') ?>}">Data Buku</a>
22 </li>
23 </ul>
24 </div>
25 </div>
26 </nav>
27
28 <!-- End Navbar -->
29
30 <div class="container py-3">
31 <!-- Content -->
32
33 <div class="card">
34 <div class="card-header text-center">
35 <?> $this->renderSection('title'); ?>
36 </div>
37 <div class="card-body">
38 <?> $this->renderSection('content'); ?>
39 </div>
40 </div>
41 </div>
42
43 <!-- End Content -->
44
45 <!-- Footer -->
46 <footer>
47 <div>
48 <p class="bg-success text-white text-center">Create By <span>&COPY; Iwan</span></p>
49 </div>
50 </footer>
51 <!-- End Footer -->
52
53
54 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
  integrity="sha384-C6RzsynM9kWDrmMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL" crossorigin="anonymous"></script>
55 </body>
56 </html>
```

- b. Membuat file berandaview.php untuk membuat tampilan halaman beranda

```
app > Views > utsview > berandaview.php > ...
1  <?= $this->extend('utsview/mainview') ?>
2
3  <?= $this->section('title') ?>|
4  <b>Wellcome to My Project UTS</b>
5  <?= $this->endsection() ?>
6
7
8  <?= $this->section('content') ?>
9  <div class="text-center">
10     NIM : 22.240.0080 <br>
11     Nama : Iwan Sanusi <br>
12     Kelas : 3P43 <br>
13 </div>
14 <?= $this->endsection() ?>
```



- c. Membuat file databukuvview.php untuk membuat tampilan halaman data buku

```
app > Views > utsview > databukuvview.php > ...
1  <?= $this->extend('utsview/mainview') ?>
2
3  <?= $this->section('title') ?>
4  <b>Data Buku</b>
5  <?= $this->endsection() ?>
6
7  <?= $this->section('content') ?>
8  <a href="<?= site_url('/buku/inputbuku') ?>" class="btn btn-primary">Tambah Data</a>
9  <hr>
10 <!-- Alert Data berhasil Di input -->
11 <?php if (session()->getFlashdata('inputberhasil')) : ?>
12     <div class="alert alert-success alert-dismissible fade show" role="alert">
13         <?= session()->getFlashdata('inputberhasil') ?>
14         <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
15     </div>
16 <?php endif; ?>
17 <!-- Alert Gagal berhasil Di input karena duplikat kode buku -->
18 <?php if (session()->getFlashdata('duplikatkodebuku')) : ?>
19     <div class="alert alert-danger alert-dismissible fade show" role="alert">
20         <?= session()->getFlashdata('duplikatkodebuku') ?>
21         <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
22     </div>
23 <?php endif; ?>
24
25 <!-- Alert Data berhasil Di edit -->
26 <?php if (session()->getFlashdata('editberhasil')) : ?>
27     <div class="alert alert-success alert-dismissible fade show" role="alert">
28         <?= session()->getFlashdata('editberhasil') ?>
29         <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
30     </div>
31 <?php endif; ?>
32 <!-- Alert untuk hapus data -->
33 <?php if (session()->getFlashdata('hapusberhasil')) : ?>
34     <div class="alert alert-success alert-dismissible fade show" role="alert">
35         <?= session()->getFlashdata('hapusberhasil') ?>
36         <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
37     </div>
38 <?php endif; ?>
39
40 <table class="table table-bordered table-striped">
41     <thead>
42         <tr class="text-center">
43             <th scope="col">No</th>
44             <th scope="col">Judul Buku</th>
45             <th scope="col">ISBN</th>
46             <th scope="col">Aksi</th>
47         </tr>
48     </thead>
49     <tbody>
50         <?php if (empty($databuku)) : ?>
51             <tr>
52                 <td colspan="4" class="text-center">Data Kosong</td>
53             </tr>
54         <?php else : ?>
55             <?php
56                 $no = 1;
57                 foreach ($databuku as $row) :
58                     <?>
59                     <tr>
60                         <td class="text-center"><?= $no++ ; ?></td>
```

```

61         <td><?= $row['bukujudul'] ?></td>
62         <td><?= $row['bukuisbn'] ?></td>
63         <td class="text-center">
64             <a href="<?= site_url('buku/detailbuku/' . $row['bukukode']) ?>" class="btn btn-success">Detail</a>
65             <a href="<?= site_url('buku/editbuku/' . $row['bukukode']) ?>" class="btn btn-warning">Edit</a>
66             <a href="<?= site_url('buku/deletebuku/' . $row['bukukode']) ?>" class="btn btn-danger">Hapus</a>
67         </td>
68     </tr>
69 <?php endforeach ?>
70 <?php endif; ?>
71 </tbody>
72 </table>
73 <?= $this->endsection() ?>

```

← → ↻ localhost:8080/index.php/buku/databuku

UTS-0080 Data Buku

Data Buku

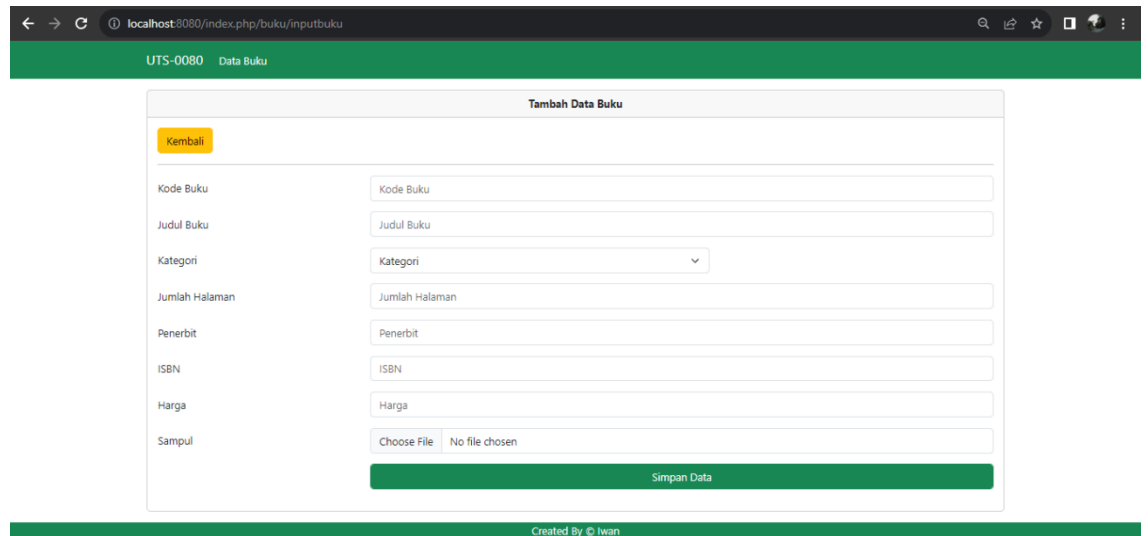
Tambah Data

No	Judul Buku	ISBN	Aksi
1	Negeri 5 Menara	978-979-22-4861-6	<a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a>
2	Biografi Gus Dur	978-623-7378-21-1	<a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a>

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- d. Membuat file inputbukuvview.php untuk membuat tampilan halaman input data buku

```
app > Views > utsview > inputbukuvview.php > ...
1  <?= $this->extend('utsview/mainview') ?>
2
3  <?= $this->section('title') ?>
4  |  <b>Tambah Data Buku</b>
5  <?= $this->endsection() ?>
6
7  <?= $this->section('content') ?>
8  <button class="btn btn-warning" type="button" onclick="window.location='/buku/databuku'">Kembali</button>
9  <hr>
10
11 <!-- Alert Data Sampul Gagal Di Input -->
12 <?php if (session()->getFlashdata('inputsampulgagal')) : ?>
13 |   <div class="alert alert-danger alert-dismissible fade show" role="alert">
14 |   |   <?= session()->getFlashdata('inputsampulgagal') ?>
15 |   |   <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
16 |   </div>
17 <?php endif; ?>
18
19 <?=form_open_multipart('/buku/simpandatabuku')?>
20 <div class="mb-3 row">
21 |   <label for="" class="col-sm-3 col-form-label">Kode Buku</label>
22 |   <div class="col-sm-9">
23 |   |   <input type="text" class="form-control" name="kodebuku" id="" placeholder="Kode Buku" required>
24 |   </div>
25 </div>
26
27 <div class="mb-3 row">
28 |   <label for="" class="col-sm-3 col-form-label">Judul Buku</label>
29 |   <div class="col-sm-9">
30 |   |   <input type="text" class="form-control" name="judulbuku" id="" placeholder="Judul Buku" required>
31 |   </div>
32 </div>
33 <div class="mb-3 row">
34 |   <label for="" class="col-sm-3 col-form-label">ISBN</label>
35 |   <div class="col-sm-9">
36 |   |   <input type="text" class="form-control" name="isbnbuku" id="" placeholder="ISBN" required>
37 |   </div>
38 </div>
39
40 <div class="mb-3 row">
41 |   <label for="" class="col-sm-3 col-form-label">Harga</label>
42 |   <div class="col-sm-9">
43 |   |   <input type="number" class="form-control" name="hargabuku" id="" placeholder="Harga" required>
44 |   </div>
45 </div>
46
47 <div class="mb-3 row">
48 |   <label for="" class="col-sm-3 col-form-label">Sampul</label>
49 |   <div class="col-sm-9">
50 |   |   <input class="form-control" type="file" name="sampul" size="20" required>
51 |   </div>
52 </div>
53
54 <div class="mb-3 row">
55 |   <div class="col-sm-3"></div>
56 |   <div class="col-sm-9">
57 |   |   <input type="submit" class="btn btn-success form-control" value="Simpan Data">
58 |   </div>
59 </div>
60 <?= $this->endsection() ?>
61 </div>
```



- e. Membuat file detailbukuview.php untuk membuat tampilan halaman detail data buku

```

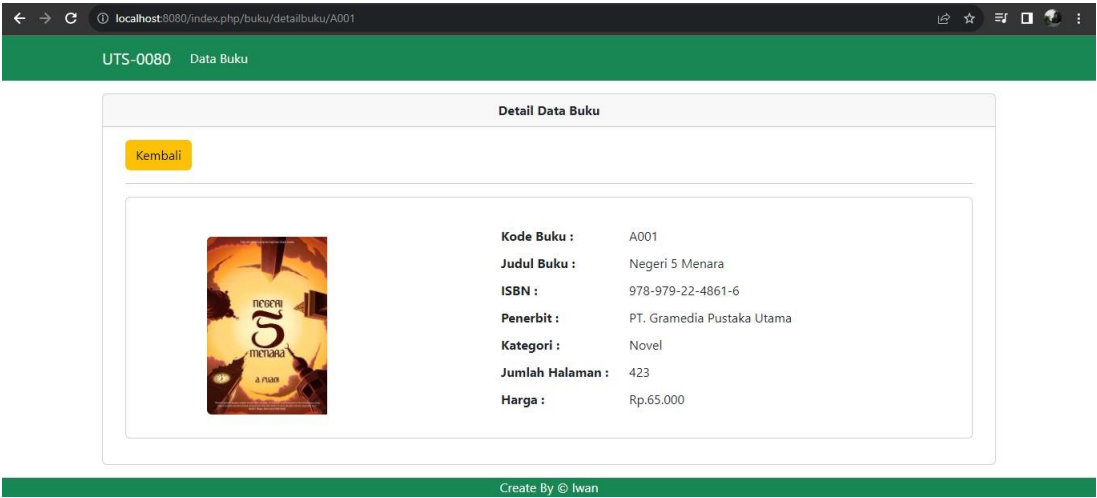
app > Views > utsvview > detailbukuview.php > ...
1  <?= $this->extend('utsview/mainview') ?>
2  |
3  <?= $this->section('title') ?>
4  <b>Detail Data Buku</b>
5  <?= $this->endsection() ?>
6
7  <?= $this->section('content') ?>
8  <div class="container">
9      <a href="<?= site_url('/buku/databuku') ?>" class="btn btn-warning">Kembali</a>
10 <hr>
11 <div class="card mb-3">
12     <div class="row g-0">
13         <div class="col-md-4 d-flex align-items-center justify-content-center">
14             
16         </div>
17         <div class="col-md-6">
18             <div class="card-body">
19                 <ul class="list-unstyled">
20                     <li>
21                         <strong>Kode Buku :</strong> <span><?= $databuku['bukukode'] ?></span>
22                     </li>
23                     <li>
24                         <strong>Judul Buku :</strong> <span><?= $databuku['bukujudul'] ?></span>
25                     </li>
26                     <li>
27                         <strong>ISBN :</strong> <span><?= $databuku['bukuisbn'] ?></span>
28                     </li>
29                     <li>
30                         <strong>Penerbit :</strong> <span><?= $databuku['bukupenerbit'] ?></span>

```

```

31         <li>
32             <strong>Kategori :</strong> <span><?= $databuku['bukukategori'] ?></span>
33         </li>
34         <li>
35             <strong>Jumlah Halaman :</strong> <span><?= $databuku['bukuhalaman'] ?></span>
36         </li>
37         <li>
38             <strong>Harga :</strong> <span>Rp.<?= number_format($databuku['bukuharga'], 0, ',', '.') ?></span>
39         </li>
40     </ul>
41 </div>
42 </div>
43 </div>
44 </div>
45 </div>
46
47 <style>
48     ul.list-unstyled {
49         padding: 0;
50         margin: 20px;
51         margin-left: 100px;
52     }
53
54     ul.list-unstyled li {
55         margin-bottom: 10px;
56         display: flex;
57         align-items: center;
58     }
59
60     ul.list-unstyled strong {
61         width: 150px;
62         display: inline-block;
63     }
64
65     ul.list-unstyled span {
66         margin-left: 10px;
67     }
68 </style>
69 <?= $this->endsection() ?>

```





f. Membuat file editbukuaview.php untuk membuat tampilan halaman edit data buku

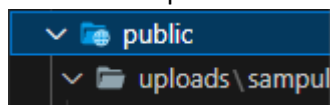
```
app > Views > utsvview > editbukuview.php > div.mb-3.row > div.col-sm-9 > input#.form-control
1 <?= $this->extend('utsview/mainview') ?>
2
3 <?= $this->section('title') ?>
4 <b>Edit Data Buku</b>
5 <?= $this->endsection() ?>
6
7 <?= $this->section('content') ?>
8 <button class="btn btn-warning" type="button" onclick="window.location='/buku/databuku'">Kembali</button>
9 <hr>
10
11 <!-- Alert Data Sampul Gagal Di Edit -->
12 <?php if (session()->getFlashdata('editsampulgagal')) : ?>
13 <div class="alert alert-danger alert-dismissible fade show" role="alert">
14 <?= session()->getFlashdata('editsampulgagal') ?>
15 <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
16 </div>
17 <?php endif; ?>
18 <!-- Alert Data Gagal Di Edit -->
19 <?php if (session()->getFlashdata('editgagal')) : ?>
20 <div class="alert alert-danger alert-dismissible fade show" role="alert">
21 <?= session()->getFlashdata('editgagal') ?>
22 <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
23 </div>
24 <?php endif; ?>
25
26 <?=form_open_multipart('/buku/updatebuku')?>
27 <input type="hidden" name="_method" value="PUT">
28 <div class="mb-3 row">
29 <label for="" class="col-sm-3 col-form-label">Kode Buku</label>
30 <div class="col-sm-9">
31 <input type="text" class="form-control" name="kodebuku" id="" placeholder="Kode Buku" value="<?= $editkode ?>"
   readonly require>
32 </div>
33 </div>
34
35 <div class="mb-3 row">
36 <label for="" class="col-sm-3 col-form-label">Judul Buku</label>
37 <div class="col-sm-9">
38 <input type="text" class="form-control" name="judulbuku" id="" placeholder="Judul Buku" value="<?= $editjudul ?>"
   require>
39 </div>
40 </div>
41
42 <div class="mb-3 row">
43 <label for="" class="col-sm-3 col-form-label">Kategori</label>
44 <div class="col-sm-5">
45 <select class="form-select" name="kategoribuku" require>
46 <option value="" disabled selected hidden>Kategori</option>
47 <option value="Novel" <?= ($editkategori == 'Novel') ? 'selected' : '' ?>>Novel</option>
48 <option value="Komik" <?= ($editkategori == 'Komik') ? 'selected' : '' ?>>Komik</option>
49 <option value="Majalah" <?= ($editkategori == 'Majalah') ? 'selected' : '' ?>>Majalah</option>
50 <option value="Kamus" <?= ($editkategori == 'Kamus') ? 'selected' : '' ?>>Kamus</option>
51 <option value="Biografi" <?= ($editkategori == 'Biografi') ? 'selected' : '' ?>>Biografi</option>
52 </select>
53 </div>
54 </div>
55
56 <div class="mb-3 row">
57 <label for="" class="col-sm-3 col-form-label">Jumlah Halaman</label>
58 <div class="col-sm-9">
59 <input type="number" class="form-control" name="jumlahhalamanbuku" id="" placeholder="Jumlah Halaman" value="<?=
   $edithalaman ?>" required>
60 </div>
61 </div>
```



6. Membuat model dengan nama file Model0080

```
app > Models > Model0080.php > Model0080
1  <?php
2
3  namespace App\Models;
4
5  use CodeIgniter\Model;
6
7  class Model0080 extends Model
8  {
9      protected $table            = 'tbbuku_0080';
10     protected $primaryKey       = 'bukukode';
11     protected $allowedFields    = ['bukukode', 'bukujudul', 'bukukategori', 'bukuhalaman', 'bukupenerbit', 'bukuisbn',
12                                   'bukuharga', 'bukusampul'];
13 }
14
```

7. Sebelum membuat function, terlebih dulu membuat folder untuk nantinya menampung data gambar(sampul) yang diupload oleh user, buat folder dengan nama uploads\sampul di dalam folder public



8. selanjutnya mengisi kode program dari function yang sudah dibuat diawal tadi untuk tiap tiap fungsi (seperti untuk insert, update, delete, dan read, dll) pada file Iwan.php

a. Function Menampilkan Halaman Index

```
public function index()
{
    return view('utsview/berandaview');
}
```

b. Function Menampilkan Halaman Data Buku

```
public function databuku()
{
    $buku = new Model0080();
    $getdata = $buku->findAll();

    $data = [
        'databuku' => $getdata
    ];
    return view('utsview/databukuvview', $data);
}
```

c. Function Menampilkan Halaman Detail Buku

```
public function detailbuku($bukukode)
{
    $buku = new Model0080();
    $data['databuku'] = $buku->find($bukukode);
    return view('utsview/detailbukuvview', $data);
}
```

d. Function Menampilkan Halaman Input Buku

```
public function inputbuku()
{
    helper('form');
    return view('utsview/inputbukuvview');
}
```

e. Function Menyimpan Inputan Data Buku

```
public function simpan databuku()
{
    $buku = new Model0080();
    $validationRules = [
        'sampul' => 'uploaded[sampul]|mime_in[sampul,image/jpg,image/jpeg,image/png]',
        'kodebuku' => 'is_unique[tbbuku_0080.bukukode]',
    ];

    if (!$this->validate($validationRules)) {
        // Pesan Untuk Kode Buku yang sama
        if ($this->validator->hasError('kodebuku')) {
            session()->setFlashdata('duplikatkodebuku', 'Data Gagal Ditambah, Pastikan Kode Buku Yang di inputkan tidak sama');
            return redirect()->to('/buku/databuku');
        }

        // Pesan Gagal untuk sampul
        if ($this->validator->hasError('sampul')) {
            session()->setFlashdata('inputsampulgagal', 'Gagal melakukan Input sampul. Pastikan file gambar (jpg, jpeg, png)');
            return redirect()->to('/buku/inputbuku');
        }
    }
    $sampul = $this->request->getFile('sampul');
    $sampulname = $sampul->getRandomName();
    $sampul->move(ROOTPATH . 'public/uploads/sampul', $sampulname);
    $buku->insert([
        'bukukode' => $this->request->getVar('kodebuku'),
        'bukujudul' => $this->request->getVar('judulbuku'),
        'bukukategori' => $this->request->getVar('kategoribuku'),
        'bukuhalaman' => $this->request->getVar('jumlahhalamanbuku'),
        'bukupenerbit' => $this->request->getVar('penerbitbuku'),
        'bukuisbn' => $this->request->getVar('isbnbuku'),
        'bukuharga' => $this->request->getVar('hargabuku'),
        'bukusampul' => 'uploads/sampul/' . $sampulname,
    ]);

    session()->setFlashdata('inputberhasil', 'Data Berhasil Ditambah');
    return redirect()->to('/buku/databuku');
}
```

f. Function Menampilkan Halaman Edit Buku

```
public function editbuku($bukukode)
{
    helper('form');
    $buku = new Model0080();
    $select = $buku->find($bukukode);

    if($select){
        $data = [
            'editkode' => $bukukode,
            'editjudul' => $select['bukujudul'],
            'editkategori' => $select['bukukategori'],
            'edithalaman' => $select['bukuhalaman'],
            'editpenerbit' => $select['bukupenerbit'],
            'editisbn' => $select['bukuisbn'],
            'editharga' => $select['bukuharga'],
        ];
        return view('utsvIEW/editbukuVIEW', $data);
    }
}
```

g. Function Menyimpan Inputan Edit Data Buku

```
public function updatebuku()
{
    $bukuModel = new Model0080();

    $kodebuku = $this->request->getVar('kodebuku');

    // Ambil data buku yang akan diupdate
    $bukuedit = $bukuModel->find($kodebuku);

    // Validasi input
    $validationRules = [
        'sampul' => 'mime_in[sampul,image/jpg,image/jpeg,image/png]|max_size[sampul,1024]'
    ];
    if (!$this->validate($validationRules)) {
        session()->setFlashdata('editsampulgagal', 'Gagal melakukan update sampul. Pastikan file gambar (jpg, jpeg, png)');
        return redirect()->to("buku/editbuku/{$kodebuku}");
    }

    if ($this->validate($validationRules)) {
        // Update data buku
        $data = [
            'bukukode' => $this->request->getVar('kodebuku'),
            'bukujudul' => $this->request->getVar('judulbuku'),
            'bukukategori' => $this->request->getVar('kategoribuku'),
            'bukuhalaman' => $this->request->getVar('jumlahhalamanbuku'),
            'bukupenerbit' => $this->request->getVar('penerbitbuku'),
            'bukuisbn' => $this->request->getVar('isbnbuku'),
            'bukuharga' => $this->request->getVar('hangabuku'),
        ];

        $sampul = $this->request->getFile('sampul');
        if ($sampul->isValid()) {
            // Pindahkan file sampul ke direktori penyimpanan
            $newSampulName = $sampul->getRandomName();
            $sampul->move(ROOTPATH . 'public/uploads/sampul', $newSampulName);

            // Update path sampul di data
            $data['bukusampul'] = 'uploads/sampul/' . $newSampulName;

            // Hapus gambar sampul lama jika ada
            $this->hapusSampulLama($bukuedit['bukusampul']);
        } else {
            // Jika sampul tidak diunggah, biarkan path tetap seperti sebelumnya
            $data['bukusampul'] = $bukuedit['bukusampul'];
        }

        $bukuModel->update($kodebuku, $data);

        session()->setFlashdata('editberhasil', 'Data Berhasil Di edit');
        return redirect()->to("buku/databuku");
    } else {
        // Jika validasi gagal, kembalikan ke halaman edit
        session()->setFlashdata('editgagal', 'Data Gagal Di Update');
        return redirect()->to("buku/editbuku/{$kodebuku}");
    }
}
```

h. Function Menampilkan Delete Buku

```
public function deletebuku($bukukode)
{
    $buku = new Model0080();
    $hapusbuku = $buku->find($bukukode);
    if($hapusbuku){
        if (!empty($hapusbuku['bukusampul'])) {
            // Path lengkap ke file sampul
            $fullPathSampul = FCPATH . $hapusbuku['bukusampul'];

            // Hapus file sampul jika ada
            if (is_file($fullPathSampul)) {
                unlink($fullPathSampul);
            }
        }
        $buku->delete($bukukode);
        session()->setFlashdata('hapusberhasil', 'Data berhasil Dihapus');
        return redirect()->to('buku/databuku');
    }
}
```

i. Function untuk Menghapus sampul lama apabila sampul diedit dengan file yang baru

```
private function hapusSampulLama($sampulPath)
{
    if (!empty($sampulPath) && file_exists(ROOTPATH . 'public/' . $sampulPath)) {
        unlink(ROOTPATH . 'public/' . $sampulPath);
    }
}
```

9. Untuk membuat function yang tadi dibuat dapat berfungsi, maka harus membuat beberapa route yang digunakan untuk penjaluran pada file Routes.php

```
app > Config > Routes.php
1  <?php
2  use App\Controllers\Iwan;
3  use CodeIgniter\Router\RouteCollection;
4
5  /**
6   * @var RouteCollection $routes
7   */
8  // $routes->get('/', 'Home::index');
9
10 $routes->get('/', 'Iwan::index');
11 $routes->get('buku/databuku', 'Iwan::databuku');
12 $routes->get('buku/inputbuku', 'Iwan::inputbuku');
13 $routes->post('buku/simpandatabuku', 'Iwan::simpandatabuku');
14 $routes->get('/buku/detailbuku/{:any}', 'Iwan::detailbuku/{:any}');
15 $routes->get('/buku/editbuku/{:any}', 'Iwan::editbuku/{:any}');
16 $routes->put('/buku/updatebuku', 'Iwan::updatebuku');
17 $routes->get('/buku/deletebuku/{:any}', 'Iwan::deletebuku/{:any}');
```

10. Selesai.