

Kada komponente mak iha kódigu ida hanesan livru ida. Abaixu mak kódigu totalidade ho komentáriu sira ne'ebé iha nia aas liu hanesan informasaun ne'ebé tau iha livru.

1. Model (app/Models/MahasiswaModel.php):

```
2. <?php
3.

    namespace App\Models;

6. use CodeIgniter\Model;
8. class MahasiswaModel extends Model
10.
11.
       protected $table = 'mahasiswa';
12.
13.
       protected $allowedFields = ['nama', 'nim', 'jurusan'];
14.
15.
16.
17.
       protected $validationRules = [
           'nama' => 'required',
18.
           'nim' => 'required|numeric',
19.
           'jurusan' => 'required'
20.
21.
       ];
22.}
23.
```



2. Kontrolador (app/Controllers/Mahasiswa.php):

```
namespace App\Controllers;
use App\Models\MahasiswaModel;
use CodeIgniter\Controller;
class Mahasiswa extends Controller
    public function index()
        $model = new MahasiswaModel();
        $data['mahasiswa'] = $model->findAll();
        return view('mahasiswa/index', $data);
    public function create()
        return view('mahasiswa/create');
    public function edit($id)
        $model = new MahasiswaModel();
        $data['mahasiswa'] = $model->find($id);
        return view('mahasiswa/edit', $data);
```



```
public function save()
        $model = new MahasiswaModel();
        if ($this->request->getMethod() === 'post' && $this->validate($model-
>validationRules)) {
            $model->save($this->request->getPost());
           return redirect()->to(base_url('mahasiswa'))->with('success',
'Estudante hasai ho sukses!');
        } else {
formulariu
            return redirect()->to(base_url('mahasiswa/create'))->withInput()-
>with('errors', $this->validator->getErrors());
   public function update()
        $model = new MahasiswaModel();
        if ($this->request->getMethod() === 'post' && $this->validate($model-
>validationRules)) {
            $id = $this->request->getPost('id');
            $model->update($id, $this->request->getPost());
            return redirect()->to(base_url('mahasiswa'))->with('success',
'Estudante atualiza ho sukses!');
        } else {
```





3. Vista Kriasaun (app/Views/mahasiswa/create.php):

```
<!DOCTYPE html>
<html lang="tet">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Kriasaun Estudante</title>
</head>
    <h1>Kriasaun Estudante</h1>
    <?php if (session()->getFlashData('errors')) : ?>
        <div class="alert alert-danger">
            <?php foreach (session()->getFlashData('errors') as $error) : ?>
                <?= esc($error) ?><br>
            <?php endforeach ?>
        </div>
    <?php endif; ?>
    <form action="<?= base url('mahasiswa/save'); ?>" method="post">
        <label for="nama">Naran:</label>
        <input type="text" name="nama" required>
        <label for="nim">NIM:</label>
        <input type="text" name="nim" required>
        <label for="jurusan">Jurusan:</label>
        <input type="text" name="jurusan" required>
        <button type="submit">Simpan
    </form>
</body>
</html>
```



4. Vista Edição (app/Views/mahasiswa/edit.php):

```
<!DOCTYPE html>
<html Lang="tet">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Edita Estudante</title>
</head>
   <h1>Edita Estudante</h1>
   <?php if (session()->getFlashData('errors')) : ?>
        <div class="alert alert-danger">
            <?php foreach (session()->getFlashData('errors') as $error) : ?>
                <?= esc($error) ?><br>
            <?php endforeach ?>
        </div>
    <?php endif; ?>
    <form action="<?= base_url('mahasiswa/update'); ?>" method="post">
        <input type="hidden" name="id" value="<?= $mahasiswa['id']; ?>">
        <label for="nama">Naran:</label>
        <input type="text" name="nama" value="<?= $mahasiswa['nama']; ?>"
required>
        <label for="nim">NIM:</label>
        <input type="text" name="nim" value="<?= $mahasiswa['nim']; ?>"
required>
        <label for="jurusan">Jurusan:</label>
        <input type="text" name="jurusan" value="<?= $mahasiswa['jurusan']; ?>"
required>
        <button type="submit">Atualiza</putton>
   </form>
</body>
</html>
```



5. Vista Lista (app/Views/mahasiswa/index.php):

```
<!DOCTYPE html>
<html lang="tet">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Dadus Estudante</title>
</head>
   <h1>Dadus Estudante</h1>
   <?php if (session()->getFlashData('success')) : ?>
       <div class="alert alert-success">
          <?= session()->getFlashData('success') ?>
       </div>
   <?php endif; ?>
   <a href="<?= base url('mahasiswa/create'); ?>">Kriar Estudante</a>
   Naran
              NIM
              Jurusan
              Aksaun
          </thead>
          <?php foreach ($mahasiswa as $mhs) : ?>
              <?= $mhs['nama']; ?>
                  <?= $mhs['nim']; ?>
                  <?= $mhs['jurusan']; ?>
                  <a href="<?= base_url('mahasiswa/edit/' . $mhs['id']);</pre>
?>">Edita</a>
                     <a href="<?= base_url('mahasiswa/delete/' .
$mhs['id']); >> onclick="return confirm('Hapara estudante ida?')">Hapara</a>
```



```
<!-- Tama ligasaun Bootstrap JS, jQuery, no fail JavaScript personaliza iha
ne'e -->

</pody>

<
```

Hau espera katak ho kódigu ho komentáriu sira hanesan ida ne'e, ita bele hatene oinsá kódigu mak funsiona no oinsá ita bele personaliza ba ita nia projeitu. Rona mos, dokumentasaun husi CodeIgniter 4 no Bootstrap atu hetan informasaun liu tan. Se iha pergunta ka asuntu espesífiku, favor hatan ba hau.