LAPORAN TUGAS PWL

Jobsheet 8

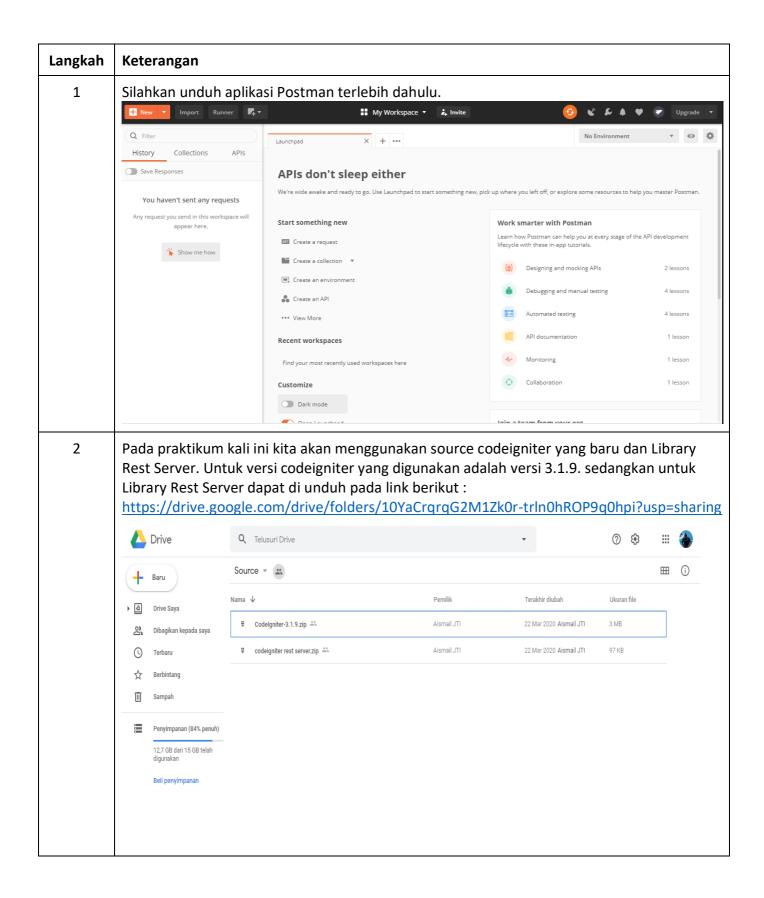


Disusun Oleh:

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PROGRAM STUDI TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG

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\$config['index_page'] = 'index.php';

Menjadi seperti berikut :

```
$config['base_url'] = 'http://localhost/code-kedelapan/';
        $config['index_page'] = '';
Dan file autoload.php
         $autoload['libraries'] = array();
         $autoload['helper'] = array();
Menjadi
         $autoload['libraries'] = array('database');
        $autoload['helper'] = array('url');
Dan database.php seperti berikut:
         $db['default'] = array(
             'username' => 'root',
             'password' => '',
             'dbdriver' => 'mysqli',
```

Selanjutnya buatlah database **rest_server** pada phpmyadmin dan masukkan data dummy. 5 Untuk data dummy dapat dibuat sebagai berikut: Databases 🖳 Create database 🔞 Create rest_server utf8_general_ci 🖟 Structure 📳 SQL 🔍 Search 📵 Query 🔜 Export 逼 Import 🥒 Operations 🚇 Privileges 🖓 Routines 🕙 Events 💸 Triggers 🥰 Designer Run SQL query/queries on database rest_server: CREATE TABLE "mahasiswa" (
 "id' int(11) NOT NULL,
 nrp 'char(9) NOT NULL,
 nrp 'char(9) NOT NULL,
 nama' warchar(259) NOT NULL,
 "email' warchar(259) DEFAULT NULL,
 "jurusan' warchar(64) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latini; Clear Format Get auto-saved query ■ Bind parameters <a>] 🕝 Show this query here again 🗌 Retain query box 🗎 Rollback when finished 🕝 Enable foreign key checks CREATE TABLE `mahasiswa` (`id` int(11) NOT NULL, `nrp` char(9) NOT NULL, `nama` varchar(250) NOT NULL, `email` varchar(250) DEFAULT NULL, `jurusan` varchar(64) NOT NULL) ENGINE=InnoDB DEFAULT CHARSET=latin1; INSERT INTO `mahasiswa` (`id`, `nrp`, `nama`, `email`, `jurusan`) VALUES (1, '043040001', 'Doddy Ferdiansyah', 'doy@gmail.com', 'Teknik Mesin'), (2, '023040123', 'Erik', 'erik@gmail.com', 'Teknik Industri'), (3, '043040321', 'Rommy Fauzi', 'rommy@gmail.com', 'Teknik Planologi'), (4, '033040023', 'Fajar Darmawan ', 'fajar@yahoo.com', 'Teknik Informatika'), (5, '113040321', 'Ferry Mulyanto', 'ferry@yahoo.com', 'Manajemen'); ALTER TABLE `mahasiswa` ADD PRIMARY KEY ('id'); ALTER TABLE `mahasiswa` MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=33;

6	Selanjutnya extract file Library Rest Server, buka folder application dan duplikasi file dan folder tersebut kedalam folder application pada project Code-kedelapan . Klik Replace files jika ada notifikasi duplikat.
	Name
	cache config controllers core helpers hooks language libraries logs migrations models third_party views htaccess
	Replace or Skip Files — 🗆 🗙
	Copying 129 items from application to application The destination has 44 files with the same names
	✓ Replace the files in the destination
	→ Skip these files
	Let me decide for each file
	Fewer details
	Setelah proses duplikasi file selesai, pastikan file-file yang kita sudah konfigurasi di awal tetap terkonfigurasi.

Selanjutnya buka project http://localhost/Code-kedelapan/. Jika berhasil, tampilan akan berubah menjadi seperti ini:

Welcome to Codelgniter!

REST Server Tests

The page you are looking at is being generated dynamically by Codelgniter.

If you would like to edit this page you'll find it located at

application/views/welcome_message.php

The corresponding controller for this page is found at

application/controllers/Welcome.php

If you are exploring Codelgniter for the very first time, you should start by reading the User Guide.

Page rendered in 0.5917 seconds. Codelgniter Version 3.1.9

8 Tahap instalasi Library Rest Server selesai

```
Langkah
         Keterangan
   1
         Buatlah file Mahasiswa.php pada controller/api. Selanjutnya tuliskan kode berikut:
           🕶 Mahasiswa.php 🗡
            application > controllers > 👼 Mahasiswa.php > PHP Intelephense > 😭 Mahasiswa > 😭 index_get
                   defined('BASEPATH') or exit('No direct script access allowed');
                  require APPPATH . 'libraries/REST_COntroller.php';
                   require APPPATH . 'libraries/Format.php';
                   class Mahasiswa extends REST_Controller
                       public function construct()
                           parent:: construct();
             12
                           $this->load->model('Mahasiswa_model', 'mahasiswa');
                       public function index_get()
                       { { |
                               $id = $this->get('id');
                               if ($id === null) {
                                    $mahasiswa = $this->mahasiswa->getMahasiswa();
                               } else {
                                    $mahasiswa = $this->mahasiswa->getMahasiswa($id);
                               if ($mahasiswa) {
                                    $this->response([
                                        'status' => true,
                                        'data' => $mahasiswa
                                    ], REST_Controller::HTTP_OK);
                                    $this->response([
                                        'message' => 'id not found'
                                    ], REST_Controller::HTTP_NOT_FOUND);
         Selanjutnya Buatlah file Mahasiswa_model.php pada model. Selanjutnya tuliskan kode
   2
         berikut:
```

```
🥯 Mahasiswa_model.php 🗵
                application > models > 😁 Mahasiswa_model.php > ...
                          class Mahasiswa_model extends CI_Model
                                public function getMahasiswa($id = null)
                                       if ($id === null) {
                                             return $this->db->get('mahasiswa')->result_array();
                                             return $this->db->get_where('mahasiswa', ['id' => $id])->result_array();
3
            Buka aplikasi postman, masukkan alamat <a href="http://localhost/Code-kedelapan/api/mahasiswa">http://localhost/Code-kedelapan/api/mahasiswa</a>
            dengan metode GET. dan jika berhasil maka tampilannya akan seperti ini:
            Postman
File Edit View Help
                         Import Runner 📭 🔻 🔻

    ♣ ♥ ⑥ Upgrade ▼

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              Q Filte
                                                                                                                                  No Environment 🔻 💿 🌼
                                                                         GET http://localhost/code-kedelapa...● + •••
               History
                        Collections
                                      APIs
                                                                                                                                                        Save *
             Save Responses
                                     Clear all
              ▼ Today
                                               □ Q
                                                               "id": "2",
"nrp": "023040123",
"nama": "Erik",
"email": "erik@gmail.com",
"jurusan": "Teknik Industri"
                                                               "id": "3",
"nrp": "043040321",
"nama": "Rommy Fauzi",
"email": "rommy@gmail.com",
"jurusan": "Teknik Planologi"
                                                               "id": "4",
"nrp": "033040023".
                                                                                                                      ⊕ Bootcamp Build Browse • ?
             II 9 E
            Kita juga dapat melakukan pencarian berdasarkan id, hasilnya akan seperti ini:
                                                                                                                                                          O
              ⊕ N
                                                                                                                                    & & A
                         Import Runner

■ My Workspace ▼
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                                                                                                                                  No Environment 🔻 💿 🌼
                                                                        GET http://localhost/code-kedelapa... • + •••
               History
                       Collections
                                      APIS
                                                                                                                                                   Comments 0
                                              Untitled Request
             Save Respo
                                               GET w http://localhost/code-kedelapan/api/Mahasiswa/?id=1
                                                                                                                                                         Save *
                Today
                                               Query Params
                                                                                                                            DESCRIPTION
                                                                                                                                                      ••• Bulk Edit
                                               ✓ id
                                                                                                                        Status: 200 OK Time: 147ms Size: 390 B Save Response ▼
                                              Body Cookies Headers (7) Test Results
                                               Pretty Raw Preview Visualize JSON ▼ =
                                                                                                                                                           □ Q
                                                                                                                                                               Т
                                                         "status": true,
"data": [
                                                              "id": "1",
"nrp": "043040001",
"nama": "Doddy Ferdiansyah",
"email": "doy@gmail.com",
"jurusan": "Teknik Mesin"
                                                  10
11
12
```

■ 9 **■**

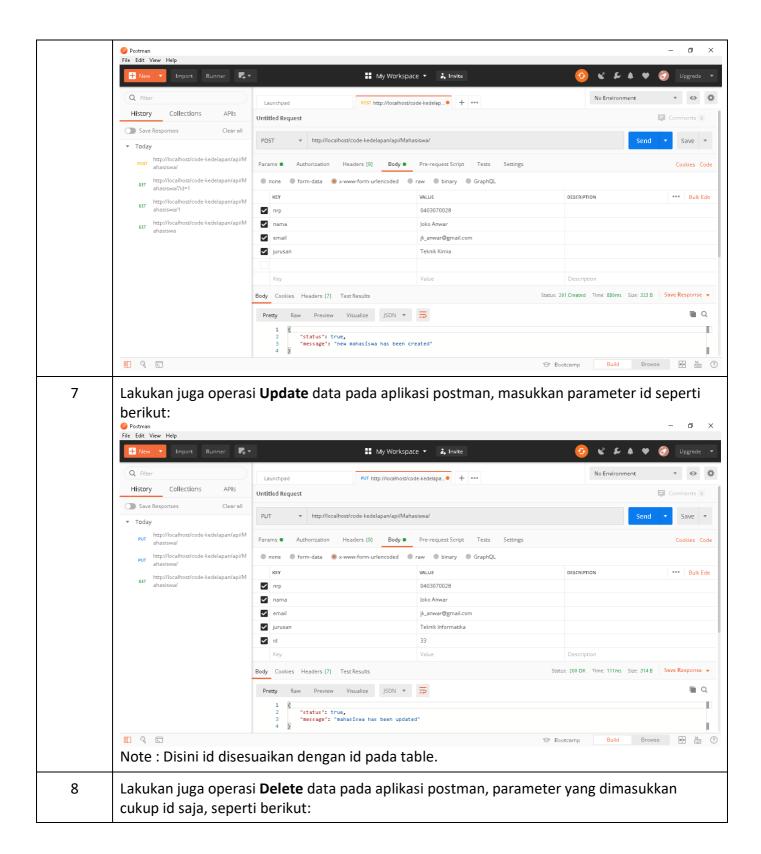
⊖ Bootcamp Build Browse • ?

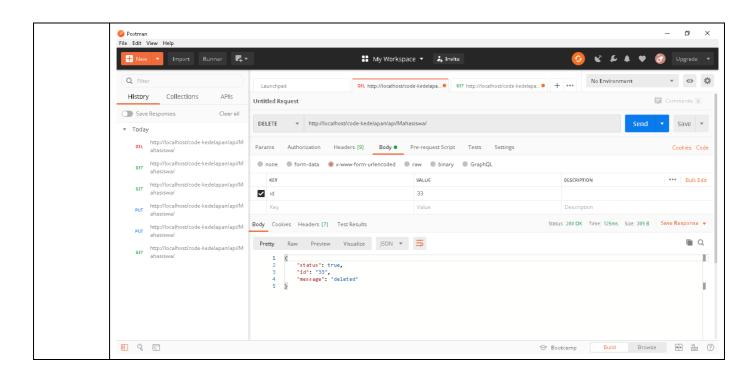
4 Untuk fungsi lain **Create**, **Update** dan **Delete**. Lanjutkan kode berikut pada file **mahasiswa.php**:

```
public function index_delete()
             $id = $this->delete('id');
42
             if ($id === null) {
                 $this->response([
                     'status' => false,
                     'message' => 'provide an id!'
                 ], REST Controller::HTTP BAD REQUEST);
                 if ($this->mahasiswa->deleteMahasiswa($id) > 0) {
                     $this->response([
                          'status' => true,
                          'id' => $id,
                         'message' => 'deleted'
                     ], REST Controller::HTTP OK);
                  } else {
                     $this->response([
                         'message' => 'id not found!'
                     ], REST_Controller::HTTP_BAD_REQUEST);
         public function index_post()
             $data = [
                  'nrp' => $this->post('nrp'),
                  'nama' => $this->post('nama'),
                  'email' => $this->post('email'),
                  'jurusan' => $this->post('jurusan'),
             ];
             if ($this->mahasiswa->createMahasiswa($data) > 0) {
                 $this->response([
                     'status' => true,
                      'message' => 'new mahasiswa has been created'
76
                  ], REST_Controller::HTTP_CREATED);
                 $this->response([
                     'status' => false,
                      'message' => 'failed to create new data!'
                 ], REST_Controller::HTTP_BAD_REQUEST);
```

```
public function index_put()
                       $id = $this->put('id');
                       data = [
                            'nrp' => $this->post('nrp'),
                           'nama' => $this->post('nama'),
                           'email' => $this->post('email'),
                           'jurusan' => $this->post('jurusan')
                       ];
                       if ($this->mahasiswa->updateMahasasiswa($data, $id) > 0) {
                           $this->response([
                               'status' => true,
                               'message' => 'new mahasiswa has been updated'
         100
                           ], REST Controller::HTTP OK);
                       } else {
                           $this->response([
                               'message' => 'failed to update data!'
                           ], REST_Controller::HTTP_BAD_REQUEST);
5
      Dan lanjutkan kode pada file Mahasiswa_model.php:
                 public function deleteMahasiswa($id)
                     $this->db->delete('mahasiswa', ['id' => $id]);
                     return $this->db->affected_rows();
                 public function createMahasiswa($data)
         21
                     $this->db->insert('mahasiswa', $data);
         22
                     return $this->db->affected_rows();
                 public function updateMahasiswa($data, $id)
                     $this->db->update('mahasiswa', $data, ['id' => $id]);
                     return $this->db->affected rows();
```

Selanjutnya lakukan operasi **Create** data pada aplikasi postman, untuk operasi **Create**, **Update** dan **Delete**, arahkan parameter ke **Body** dan **x-www-form-urlencoded** seperti berikut:





-- Selamat Mengerjakan –