# LAPORAN PRAKTIKUM PEMROGRAMAN WEB LANJUT

# Jobsheet 8 (Implementasi Resful API)

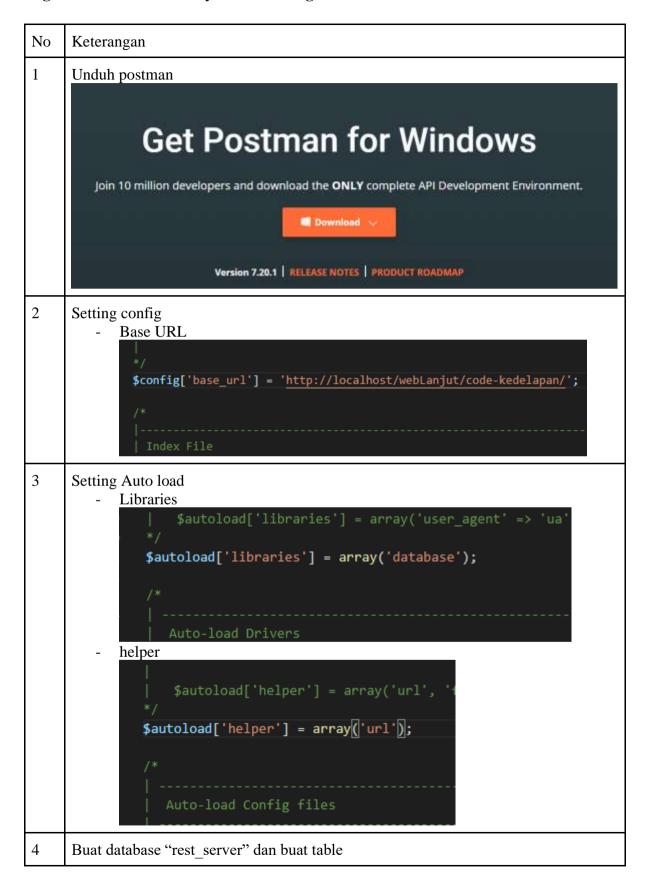


## Oleh:

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# PROGRAM STUDI TEKNIK INFORMATIKA JURUSSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG FEBRUARI 2020

Bagian 1: Instalasi Library Restful codeigniter



- 5 Replace ke folder aplication
- 6 Menampilkan "localhost/webLanjut/code-kedelapan/rest server "

#### **REST Server Tests**

### <u>Home</u>

See the article <a href="http://net.tutsplus.com/tutorials/php/working-with-restful-services-in-codeigniter-2/">http://net.tutsplus.com/tutorials/php/working-with-restful-services-in-codeigniter-2/</a>

The master project repository is <a href="https://github.com/chriskacerguis/codeigniter-restserver">https://github.com/chriskacerguis/codeigniter-restserver</a>

Click on the links to check whether the REST server is working.

- 1. Users defaulting to JSON
- 2. Users get it in CSV
- 3. User #1 defaulting to JSON (users/id/1)
- 4. User #1 defaulting to JSON (users/1)
- 5. User #1 get it in XML (users/id/1.xml)
- 6. User #1 get it in XML (users/id/1/format/xml)
- 7. User #1 get it in XML (users/id/1?format=xml)
- 8. User #1 get it in XML (users/1.xml)
- 9. Users get it in JSON (AJAX request)
- 10. Users get it in HTML (users.html)
- 11. Users get it in HTML (users/format/html)
- 12. <u>Users</u> get it in HTML (users?format=html)

Bagian 2: Membuat Aplikasi CRUD Restful Codeigniter

```
No
     Keterangan
1
     Membuat folder API di dalam controler dan membuat file Mahasiswa.php
     defined('BASEPATH') OR exit('No direct script access allowed');
     require APPPATH . 'libraries/Format.php';
         public function construct()
             $this->load->model('Mahasiswa model','mahasiswa');
         public function index get()
             $id = $this->get('id');
             if ($id == null) {
                 $mahasiswa = $this->mahasiswa->qetMahasiswa();
                 $mahasiswa = $this->mahasiswa->getMahasiswa($id);
             if($mahasiswa){
                 $this->response([
                     'data' => $mahasiswa
                 ], REST Ccontroller::HTTP OK);
                 $this->response([
                 ], REST Controller::HTTP NOT FOUND);
```

2 Membuat file Mahasiswa\_model.php 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 Copy link ke postman "localhost/webLanjut/code-kedelapan/api/Mahasiswa" Send \* Save \* B 0 Prenty Raw Preview Visualize (SON \* 55 "status": true, "data": [ "in": "1",
"erp": "043840801",
"hama": "Doody Fartianayah",
"eseil": "daySgmail.com",
"jurusah": "Texnik Nesin" 18 11 12 13 14 15 16 17 18 19 22 23 24 25 26 27 "id": "2",
"my": "033040122",
"domo": "Erik",
"email": Terik@mail.com",
"juruten": "Teknik Industri" "id": "3",
"erp": "843848321",
"mame": "Rommy Pauri",
"esail": "rommy@gmail.com",
"jurusan": "Texnik Planning "10": "4", "terp": "033040023", 4 Menambahkan fungsi Create, Update, dan Delete function index delete() { \$id = \$this->delete('id'); if (\$id === null) { \$this->response([ ], REST Controller::HTTP BAD REQUEST);

```
} else {
        if ($this->mahasiswa->deleteMahasiswa($id) > 0) {
            $this->response([
            ], REST Controller::HTTP OK);
            $this->response([
            ], 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([
        ], REST Controller::HTTP CREATED);
        $this->response([
            'status' => false,
        ], REST Controller::HTTP BAD REQUEST);
public function index put(){
   $id = $this->put('id');
    $data = [
```

```
'nrp' => $this->put('nrp'),
    'nama' => $this->put('nama'),
    'email' => $this->put('email'),
    'jurusan' => $this->put('jurusan'),

];

if ($this->mahasiswa->updateMahasiswa($data, $id) > 0) {
    $this->response([
        'status' => true,
        'message' => 'new mahasiswa has been updated'
    ], REST_Controller::HTTP_OK);
} else {
    $this->response([
        'status' => false,
        'message' => 'failed to update data'
    ], REST_Controller::HTTP_BAD_REQUEST);
}
}
```

5 Menambahkan Fungsi di Mahasiswa\_model.php

```
public function deleteMahasiswa($id){
    $this->db->delete('mahasiswa', ['id' => $id]);
    return $this->db->affected_rows();
}

public function createMahasiswa($data){
    $this->db->insert('mahasiswa', $data);
    return $this->db->affected_rows();
}

public function updateMahasiswa($data, $id){
    $this->db->update('mahasiswa', $data, ['id' => $id]);
    return $this->db->affected_rows();
}
```

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



