

PRAKTIKUM 10

MEMBANGUN REST SERVER

1. Buat file baru simpan di folder **application/api** dengan nama file Mahasiswa.php, ketikkan kode berikut:

```
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
require APPPATH . '/libraries/REST_Controller.php';
class Mahasiswa extends REST_Controller {
    function __construct() {
        parent::__construct();
        $this->load->model('model_mahasiswa');
    }
    function index_get() {
        $id = $this->get('id');
        if ($id === NULL){
            $mahasiswa=$this->model_mahasiswa->getmahasiswa();
        }else{
            $mahasiswa=$this->model_mahasiswa->getmahasiswa($id);
        }
        if ($mahasiswa) {
            $this->response([
                'status' => True,
                'data' => $mahasiswa
            ], REST_Controller::HTTP_OK);
        }else{
            $this->response([
                'status' => False,
                'message' => 'id not found'
            ], REST_Controller::HTTP_NOT_FOUND);
        }
    }
    public function index_delete(){
        $id = $this->delete('id');
        if ($id==NULL) {
            $this->response([
                'status' => False,
                'message' => 'provide id'
            ], REST_Controller::HTTP_BAD_REQUEST);
        }else{
            if ($this->model_mahasiswa->deletemahasiswa($id)>0) {
                $this->response([
                    'status' => True,
                    'id' => $id,
                    'message'=>'deleted'
                ], REST_Controller::HTTP_NO_CONTENT);
            }else{
                $this->response([
                    'status' => False,
                    '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->model_mahasiswa->createmahasiswa($data)>0) {
                $this->response([
                    'status' => True,
                    'message' => 'add mahasiswa sukses'
                ], REST_Controller::HTTP_CREATED);
            }else{
                $this->response([
                    'status' => False,
                    'message' => 'Failed'
                ], 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 ($this->model_mahasiswa->updatemahasiswa($data,$id)>0) {
                $this->response([
                    'status' => True,
                    'message' => 'update mahasiswa sukses'
                ], REST_Controller::HTTP_NO_CONTENT);
            }else{
                $this->response([
                    'status' => False,
                    'message' => 'Failed'
                ], REST_Controller::HTTP_BAD_REQUEST);
            }
        }
    }
}

```

?>

Buat file baru simpan di folder model dengan nama file model_mahasiswa.php, ketikkan kode berikut:

```
<?php
class Model_mahasiswa extends CI_Model
{
    public function getmahasiswa($id=null){
        if ($id==null) {
            return $this->db->get('mahasiswa')->result_array();
        }else{
            return $this->db->get_where('mahasiswa',['id'=>$id])->result_array();
        }
    }
    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();
    }
}

?>
```