

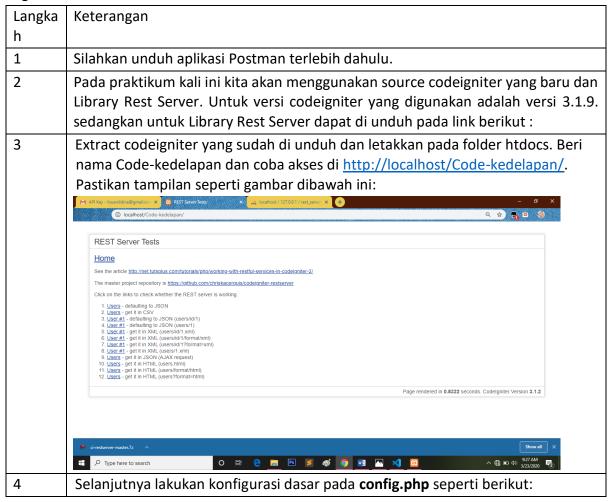
## LAPORAN PRAKTIKUM Web Lanjut

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Kelas : TI 2B

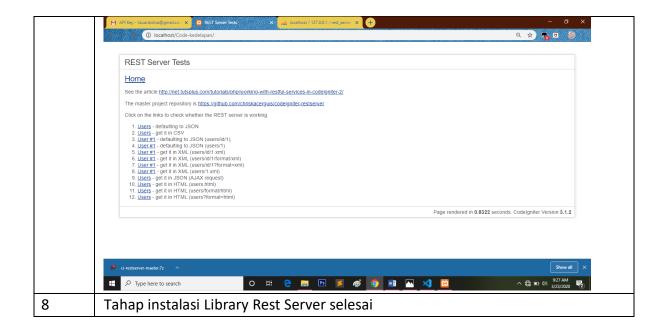
Isi Laporan : Jobsheet-8 : Implementasi Restful Api

## Bagian 1

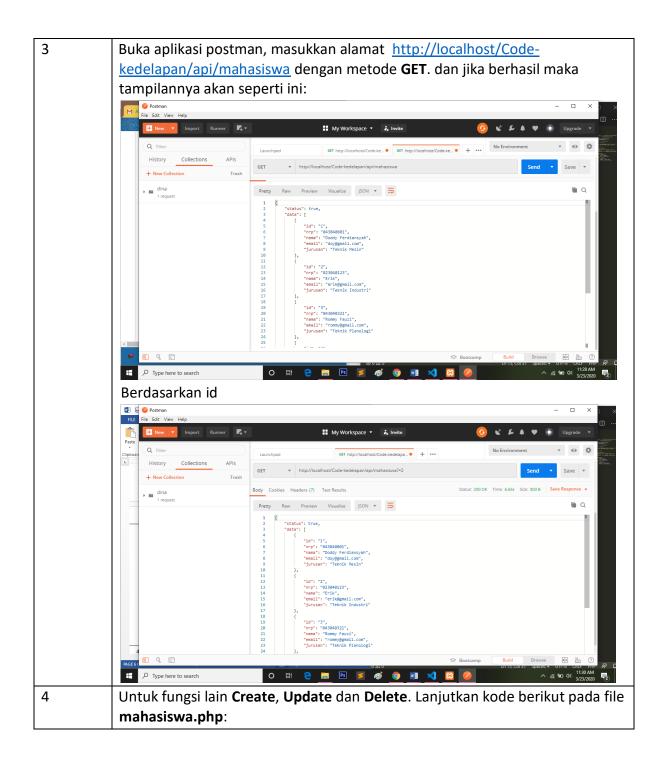


```
$config['base_url'] = 'http://localhost/Code-kedelapan/';
           Autoload
             $autoload['libraries'] = array('database');
            $autoload['helper'] = array('url');
           Database
           $db['default'] = array(
                 'dsn' => '',
'hostname' => 'localhost',
                 'username' => 'root',
'password' => '',
'database' => 'rest_server',
'dbdriver' => 'mysqli',
'dbprefix' => '',
                 'pconnect' => FALSE,
                 'db_debug' => (ENVIRONMENT !== 'production'),
'cache_on' => FALSE,
                'cache_on' => FALSE,
'cachedir' => '',
'char_set' => 'utf8',
'dbcollat' => 'utf8_general_ci',
'swap_pre' => '',
'encrypt' => FALSE,
'compress' => FALSE,
                 'stricton' => FALSE,
                 'failover' => array(),
                 'save_queries' => TRUE
            );
5
           Selanjutnya buatlah database rest server pada phpmyadmin dan masukkan
           data dummy. Untuk data dummy dapat dibuat sebagai berikut:
              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 Me
            sin'),
           (2, '023040123', 'Erik', 'erik@gmail.com', 'Teknik Industri'),
           (3, '043040321', 'Rommy Fauzi', 'rommy@gmail.com', 'Teknik Planol
           ogi'),
           (4, '033040023', 'Fajar Darmawan ', 'fajar@yahoo.com', 'Teknik In
           formatika'),
           (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;
         Selanjutnya extract file Library Rest Server, buka folder application dan
6
         duplikasi file dan folder tersebut kedalam folder application pada project Code-
         kedelapan. Klik Replace files jika ada notifikasi duplikat.
           Name
                                            Name
              cache
                                             cache
              config
                                              config
              controllers
                                             controllers
              core
                                              core
              helpers
                                              helpers
            hooks
                                             hooks
            language
                                             language
            libraries
                                              libraries
            logs
                                              logs
            models
                                             migrations
                                              models
            third_party
                                              third_party
            views
                                             views
           .htaccess
                                             htaccess.
           index 🌀
                                            index.html
7
         Selanjutnya buka project http://localhost/Code-kedelapan/. Jika berhasil,
         tampilan akan berubah menjadi seperti ini:
```



```
Langkah
             Keterangan
1
             Buatlah file Mahasiswa.php pada controller/api. Selanjutnya tuliskan kode
             berikut:
                    <?php
                    defined('BASEPATH') OR exit('No direct script access allowed');
                    require APPPATH . '/libraries/REST_Controller.php';
                      e Restserver\Libraries\REST_Controller;
                   use Restserver\Libraries\Format;
                    class Mahasiswa extends REST_Controller
                        function __construct()
                            parent:: construct();
                            $this->load->model('Mahasiswa_model','mahasiswa');
                        function index_get()
                            $id = $this->get('id');
                            if ($id === null){
    $mahasiswa = $this->mahasiswa->getMahasiswa();
                                $mahasiswa = $this->mahasiswa->getMahasiswa($id);
                            if($mahasiswa){
                                $this->response([
                                     'status' => true,
'data' => $mahasiswa
                                ], REST_Controller::HTTP_OK);
                            }else{
                                $this->response([
    'status' => false,
    'message' => 'id not found'
                                ], REST_Controller::HTTP_NOT_FOUND);
2
             Selanjutnya Buatlah file Mahasiswa_model.php pada model. Selanjutnya
              tuliskan kode berikut:
                    <?php
                    defined('BASEPATH') OR exit('No direct script access allowed');
                   class Mahasiswa_model extends CI_Model {
              5 ▼
                        public function getMahasiswa($id=null){
                             if ($id === null) {
    return $this->db->get('mahasiswa')->result_array();
} else {
              10
                                 return $this->db->get_where('mahasiswa', ['id' => $id])
              11
                                      ->result array();
```



```
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);
                             lse {
$this->response([
                                  'status' => false,
'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){
                         $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();
6
              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:

