

Jurusan Teknologi Informasi Politeknik Negeri Malang

Jobsheet-6: Pengenalan JSON, penggunaan postman, Public API, Restful API, cURL

Mata Kuliah Pemrograman Web Lanjut

Pengampu: Tim Ajar Pemrograman Web Lanjut

Februari 2020

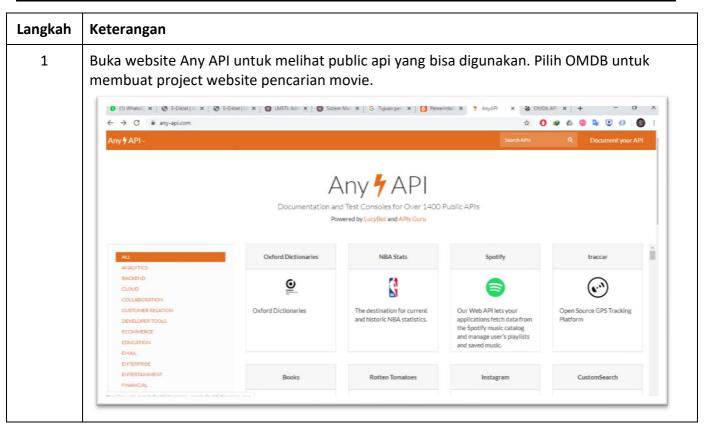
Nama : Alfan Noufal Nasruddin

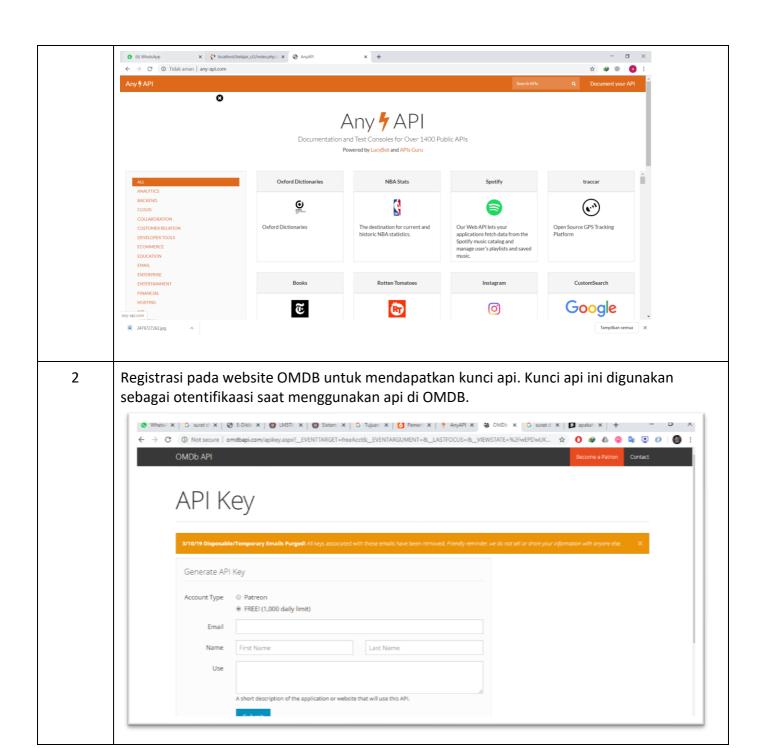
Kelas : TI-2A

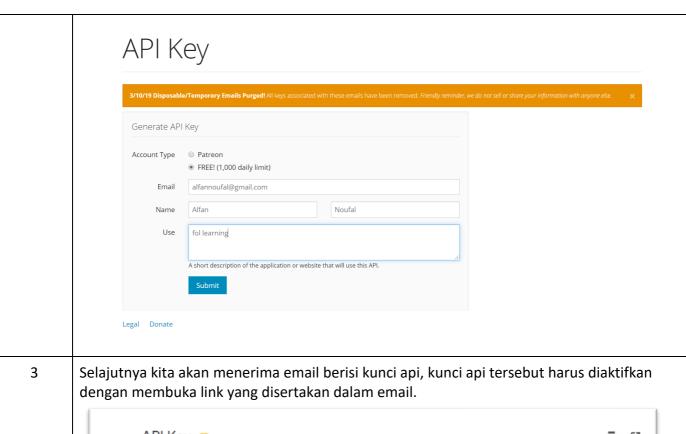
NIM : 1841720059

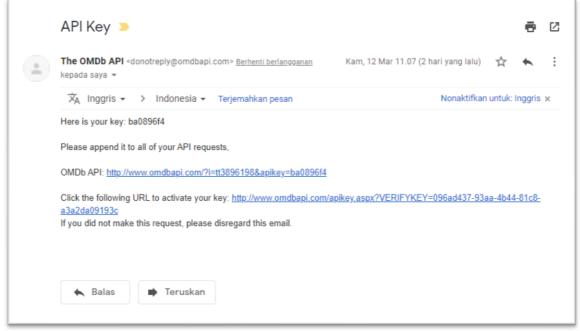
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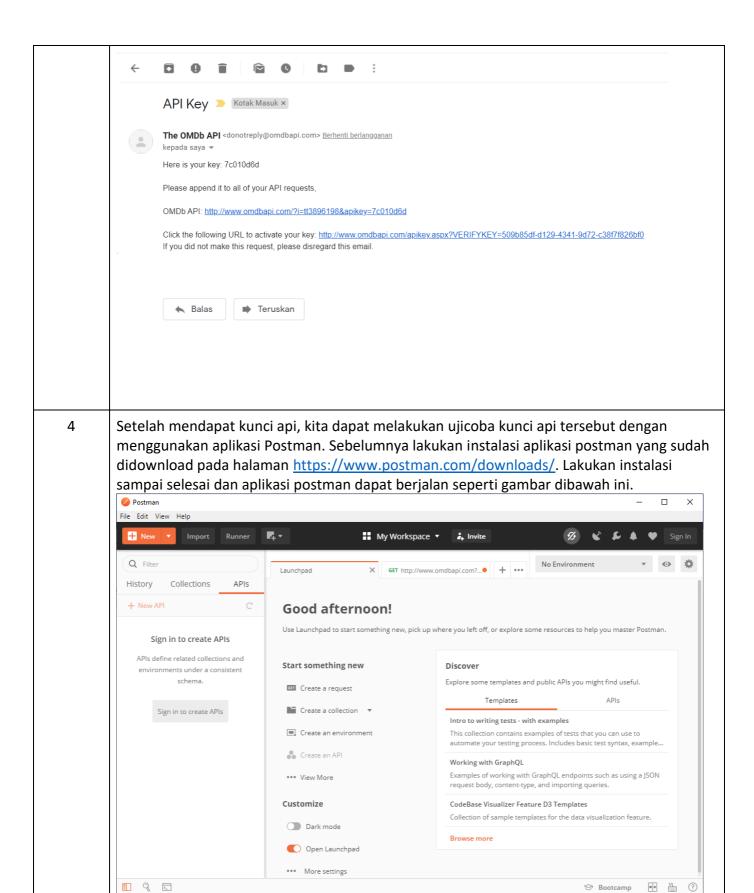
<u>Praktikum – Bagian 1: Registrasi Account di layanan Public API dan Test API menggunakan Postman</u>

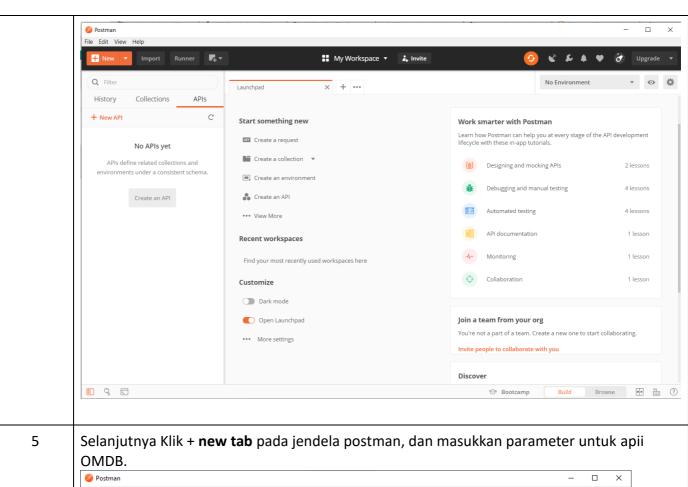


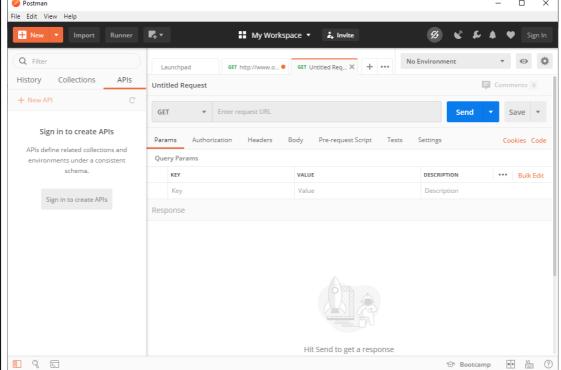


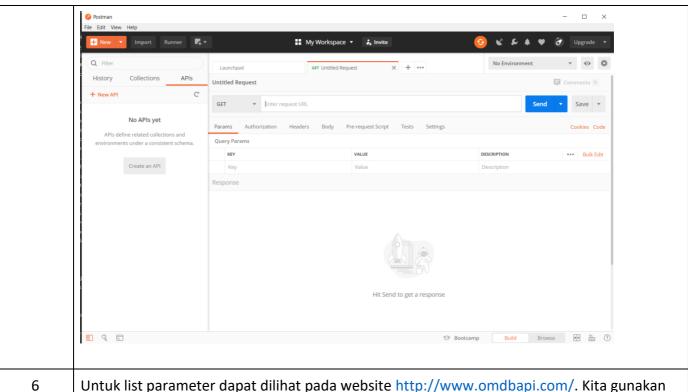




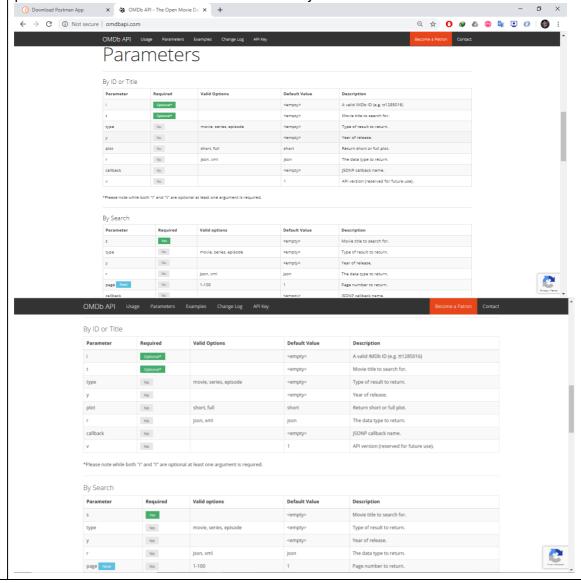








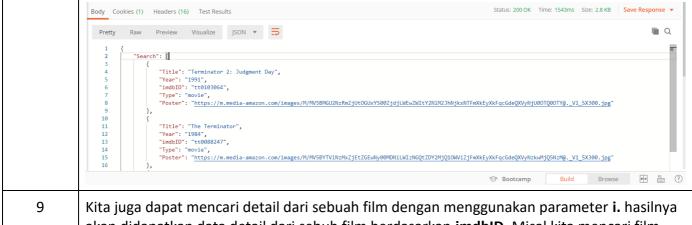
Untuk list parameter dapat dilihat pada website http://www.omdbapi.com/. Kita gunakan parameter **s** untuk mencari film berdasarkan judul film.



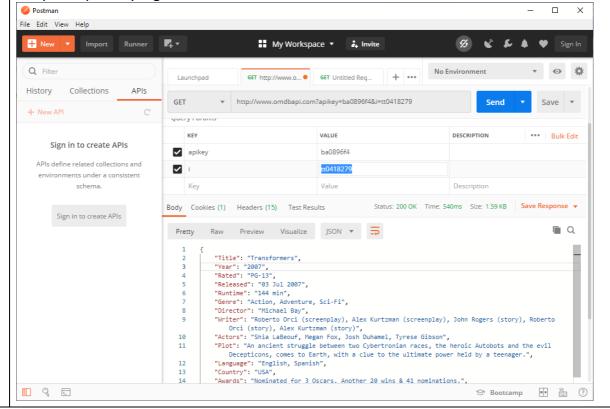
7 Masukan parameter key dan value berupa api key, value berupa key, code pencarian s dan judul film yang akan dicari, misalnya terminator. http://www.omdbapi.com?apikey=ba0896f4&s=terminator GET Send Authorization Headers (8) Body Pre-request Script Settings Query Params VALUE DESCRIPTION ba0896f4 apikey ~ terminator Key Value Description GET ▼ http://www.omdbapi.com?apikey=7c010d6d&s=terminator Send Save ▼ Params • Authorization Headers Body Pre-request Script Tests Settings Query Params KEY VALUE DESCRIPTION ••• Bulk Edit apikey 7c010d6d **✓** s terminator Key Value Description Response 8 Jika parameter sesuai, akan didapatkan hasil berupa respon JSON dari website OMDB seperti gambar ini. Preview Visualize JSON ▼ 5 ■ Q Pretty Raw "Search": ["Title": "Terminator 2: Judgment Day", "Year": "1991", "imdbID": "tt0103064", 6 "Type": "movie", "Poster": "https://m.media-amazon.com/images/M/
MV5BMGU2NzRmZjUtOGUxYS00ZjdjLWEwZWItY2N1M2JhNjkxNTFmXkEyXkFqcGdeQXVyNjU00TQ00TY@. 8 _V1_SX300.jpg" 10 "Title": "The Terminator", "Year": "1984", 12 "imdbID": "tt0088247", 13 "Type": "movie", "Poster": "https://m.media-amazon.com/images/M/
MV5BYTViNzMxZjEtZGEwNy00MDNiLWIzNGQtZDY2MjQ10WViZjFmXkEyXkFqcGdeQXVyNzkwMjQ5NzM@. 15 _V1_SX300.jpg 16 }, 17 "Title": "Terminator 3: Rise of the Machines", 18 19 "Year": "2003",

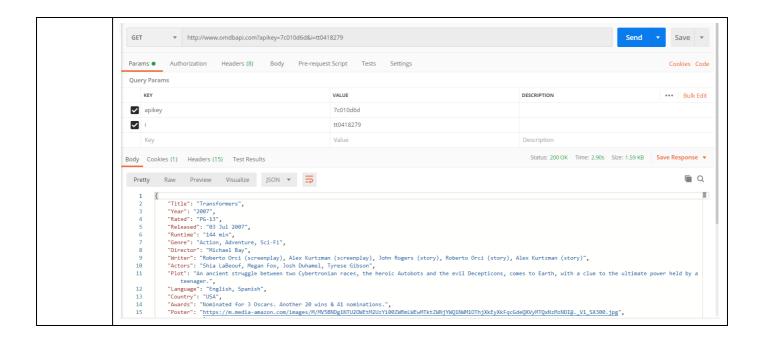
20

"imdbID": "tt0181852",
"Type": "movie",

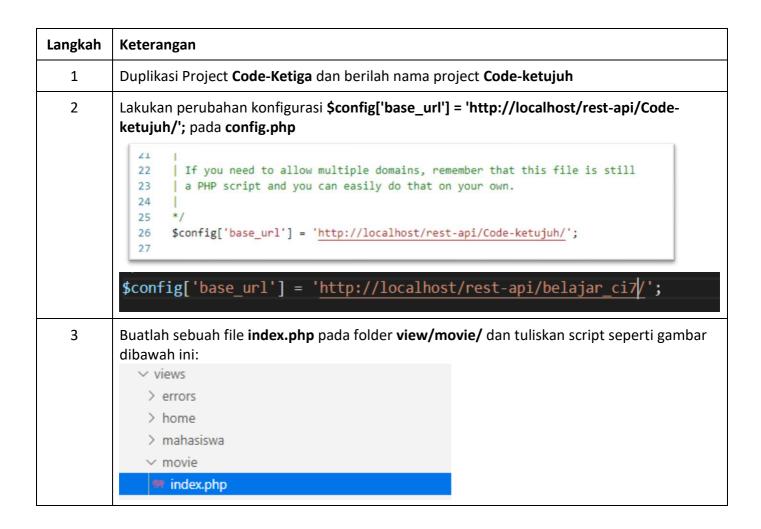


Kita juga dapat mencari detail dari sebuah film dengan menggunakan parameter i. hasilnya akan didapatkan data detail dari sebuh film berdasarkan imdbID. Misal kita mencari film dengan ID tt0418279. Maka akan ditampilkan informasi detail dari film tersebut. Selanjutnya kita bisa memasukkan JSON kedalam aplikasi codeigniter untuk membuat tampilan aplikasi yang lebih menarik.





Praktikum – Bagian 2: Membuat Aplikasi Movie List Code Igniter Menggunakan Public API



```
application > views > movie > 💝 index.php
 1
      <div class="container mt-3">
 2
         <div class="row justify-content-center">
 3
           <div class="col-md-8">
             <div class="input-group mb-3">
 4
              <input type="text" id="search-text" class="form-control" placeholder="Input Movie Title"</pre>
 5
               aria-label="Recipient's username" aria-describedby="button-addon2">
               <div class="input-group-append">
 6
 7
                fa-search"></i></button>
               </div>
 8
             </div>
 10
          </div>
         </div>
 11
 12
         <hr>>
 13
         <div class="row" id="movie-list">
14
15
16
         </div>
        </div>
 17
 18
       <!-- Modal -->
 19
        <div class="modal fade" id="exampleModal" tabindex="-1" role="dialog"</pre>
 20
        aria-labelledby="exampleModalLabel" aria-hidden="true">
         <div class="modal-dialog modal-lg" role="document">
 21
 22
           <div class="modal-content">
 23
             <div class="modal-header">
              <h5 class="modal-title" id="exampleModalLabel">Movie Details</h5>
 24
               <button type="button" class="close" data-dismiss="modal" aria-label="Close">
26
               <span aria-hidden="true">&times;</span>
 27
               </button>
 28
             </div>
 29
             <div class="modal-body">
30
31
             </div>
             <div class="modal-footer">
32
33
             <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
34
             </div>
35
           </div>
36
         </div>
37
       </div>
            <(-- Modal -->|
<div class="modal fade" id="exampleModal" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel"</pre>
      v Class= Moual Fade the Commyreness
aria-hidden="true">

<div class="modal-dialog modal-lg" role="document">

         <div class="modal-co
```

Buatlah sebuah file controller **Movie.php** pada folder **controller** dan tuliskan script seperti gambar dibawah ini:

4

```
controllers
          M Home.php
          > index.html
          Mahasiswa.php
          Movie.php
          Melcome.php
        application > controllers > 🦬 Movie.php
               <?php
           2
           3
               defined('BASEPATH') OR exit('No direct script access allowed');
          4
           5
               class Movie extends CI Controller {
           6
           7
                   public function index()
          8
                       $this->load->view('template/header');
          9
                       $this->load->view('movie/index');
          10
          11
                       $this->load->view('template/footer');
          12
          13
          14
         15
         16
               /* End of file Movie.php */
         17
         18
                        ndex.php
                                        Movie.php X
        enfig.php
         application > controllers > 💏 Movie.php
                <?php
                defined('BASEPATH') OR exit('No direct script access allowed');
                class Movie extends CI Controller {
                    public function index()
                        $this->load->view('template/header');
                        $this->load->view('movie/index');
                        $this->load->view('template/footer');
          11
               /* End of file Movie.php */
5
```

Selanjutnya buat file javascript **script.js** pada folder **assets/js/** kemudian tuliskan script seperti gambar dibawah ini:

```
assets
   > css
   ∨ js
    JS bootstrap.bundle.js
    JS bootstrap.bundle.js.map
    JS bootstrap.bundle.min.js
    JS bootstrap.bundle.min.js.map
    JS bootstrap.js
    JS bootstrap.js.map
    JS bootstrap.min.js
    JS bootstrap.min.js.map
   JS script.js
assets > js > JS script.js > ...
 1 $('#search-text').on('keyup', function(e){
         if(e.keyCode == 13)
              searchMovies();
  4
  5
      })
  6
  8 $('#btn-search').on('click', function(e){
 9
         searchMovies();
    })
 10
 11
     $('#movie-list').on('click', '#btn-details', function(e){
 13
          $.ajax({
 14
              url: 'http://www.omdbapi.com',
 15
              type:'GET',
              dataType:'json',
 16
 17
              data:{
                  'apikey' : 'ba0896f4', //API Key
 18
 19
                  'i' : $(this).data('id') //Parameter i untuk pencarian film berdasarkan id film / omdbID
 20
 21
              success: function(result){
                  if(result.Response === "True"){
 22
                      $('.modal-body').html('');
 23
                      $('.modal-body').append(
 24
                          <div class="container-fluid">
 25
 26
                              <div class="row">
 27
                                 <div class="col-md-4">
 28
                                     <img src="` + result.Poster + `" class="img-fluid">
                                  </div>
 29
                                 <div class="col-md-8">
 30
```

```
31
                                 <h4>`+ result.Title +`</h4>
 32
 33
                                   Released : `+ result.Released +`
                                   Genre : `+ result.Genre +`
 34
                                   Writer : `+ result.Writer +`
 35
                                   Actors : `+ result.Actors +`
 36
                                   Production : `+ result.Production +`
 37
                                  li>
 38
                                  Plot : `+ result.Plot +`
 39
                                 </div>
 40
 41
                          </div>
 42
                       </div>
 43
 44
 45
 46
         });
 47
     1)
 48
 49
 50
     function searchMovies(){
 51
         $.ajax({
            url: 'http://www.omdbapi.com',
 52
 53
            type: 'GET',
 54
            dataType:'json',
 55
            data:{
                'apikey' : 'ba0896f4', //API Key
 56
                's' : $('#search-text').val() //Parameter s pencarian film berdasarkan judul
 57
58
59
           success: function(result){
60
               let movies = result.Search;
              $('#movie-list').html('');
61
62
               if(result.Response == "True"){
63
                  $.each(movies, function(i, data){
                     $('#movie-list').append(`<div class="col-md-4 mb-3">
64
65
                        <div class="card" style="width: 18rem;">
                        <img src=""+ data.Poster +" class="card-img-top" height="300px">
66
                        <div class="card-body"><h5 class="card-title">`+ data.Title +`</h5>
67
                        Year : `+ data.Year +`
68
                        <a href="#" class="btn btn-primary" id="btn-details" data-id="`+ data.imdbID</pre>
69
                        data-toggle="modal" data-target="#exampleModal">Show Details</a>
70
71
                        </div></div></div>
72
73
                  })
74
               }else{
75
                  $('#movie-list').append(`
                     <div class="col-sm-12 text-center">
76
77
                        <h1>`+ result.Error +`</h1>
                     </div>
78
                  `);
79
80
81
82
83
        $('#search-text').val("");
84
∨ BELA... 👸 🛅 🔘
  > application

✓ assets \ js

  JS script.js
```

```
#search-text').on('keyup
if (e.keyCode == 13) {
            searchMovies();
$('#btn-search').on('click', function (e) {
      searchMovies();
     $.ajax([]
unl: 'http://www.omdbapi.com',
type: 'GET',
dataType: 'json',
           data: {
    'apikey': '7c010d6d', //API Key
    'i': $(this).data('id') //Parameter i untuk pencarian film berdasarkan id film / omdbID
            </div>
</div>
</div class="col-md-8">

<h4>` + result.Title + `</h4>
cli class="list-group-item">seleased : ` + result.Released + `
cli class="list-group-item">Seleased : ` + result.Released + `
cli class="list-group-item">Seleased : ` + result.Genre + `
cli class="list-group-item">Whiter : + result.Genre + `
cli class="list-group-item">Actors : ` + result.Actors + `
cli class="list-group-item">Production : ` + result.Production + `
cli class="list-group-item">Production : ` + result.Production + `

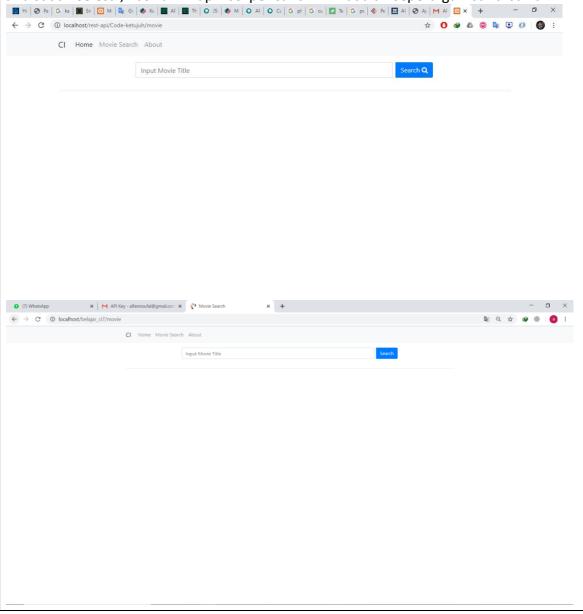
      function searchMovies() {
                 $('#search-text').val("");
```

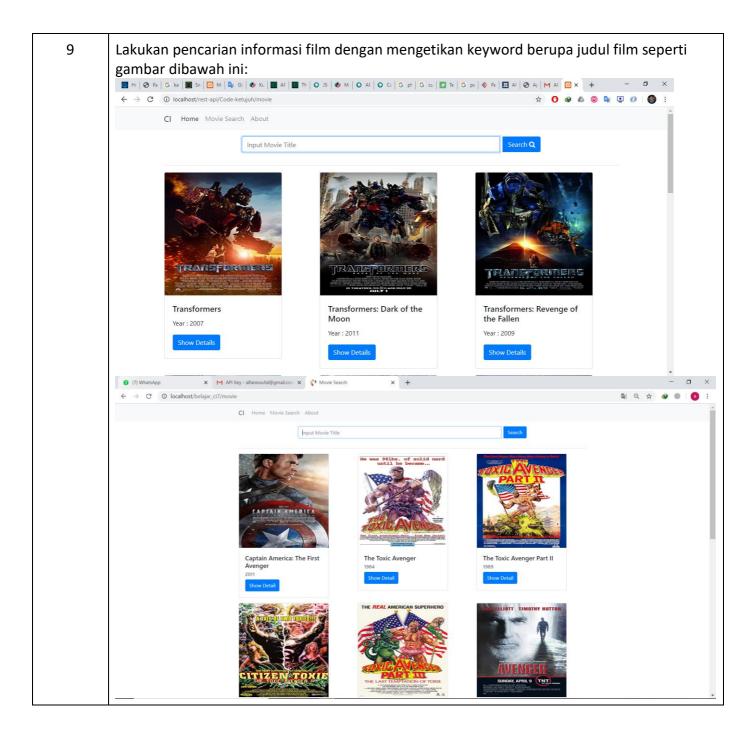
6 Tambahkan script pada **footer.php** pada folder **template** seperti gambar dibawah ini:

7 Tambahkan juga script pada **header.php** pada folder **template** seperti gambar dibawah ini:

```
application > views > template > * header.php
  1
      <!doctype html>
      <html lang="en">
  2
  3
       <head>
  4
          <!-- Required meta tags -->
          <meta charset="utf-8">
  5
  6
          <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  8
          <!-- Bootstrap CSS -->
          <link rel="stylesheet" href="<?= base_url(); ?>assets/css/bootstrap.css">
  9
 10
          <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/</pre>
          font-awesome.min.css">
          k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.
 11
          css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkF0JwJ8ERdknLPM0"
          crossorigin="anonymous">
 12
 13
         <!-- <title>Hello, world!</title> -->
 14
         <title>Movie Search</title>
        </head>
 15
 16
        <body>
        <nav class="navbar navbar-expand-lg navbar-light bg-light">
 17
 18
        <div class="container">
         <a class="navbar-brand" href="#">CI</a>
 19
          <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav"</pre>
 20
          aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
           <span class="navbar-toggler-icon"></span>
          </button>
 22
 23
          <div class="collapse navbar-collapse" id="navbarNav">
 24
             25
 26
                 <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
             27
 28
             29
                <a class="nav-link" href="movie">Movie Search</a>
 30
             31
                <a class="nav-link" href="#">About</a>
 32
 33
 34
             35
          </div>
 36
        </div>
 37
 38
     </nav>
```

8 Jika sudah selesai, hasil akhir aplikasi pencarian film adalah seperti gambar dibawah ini:





-- Selamat Mengerjakan –