



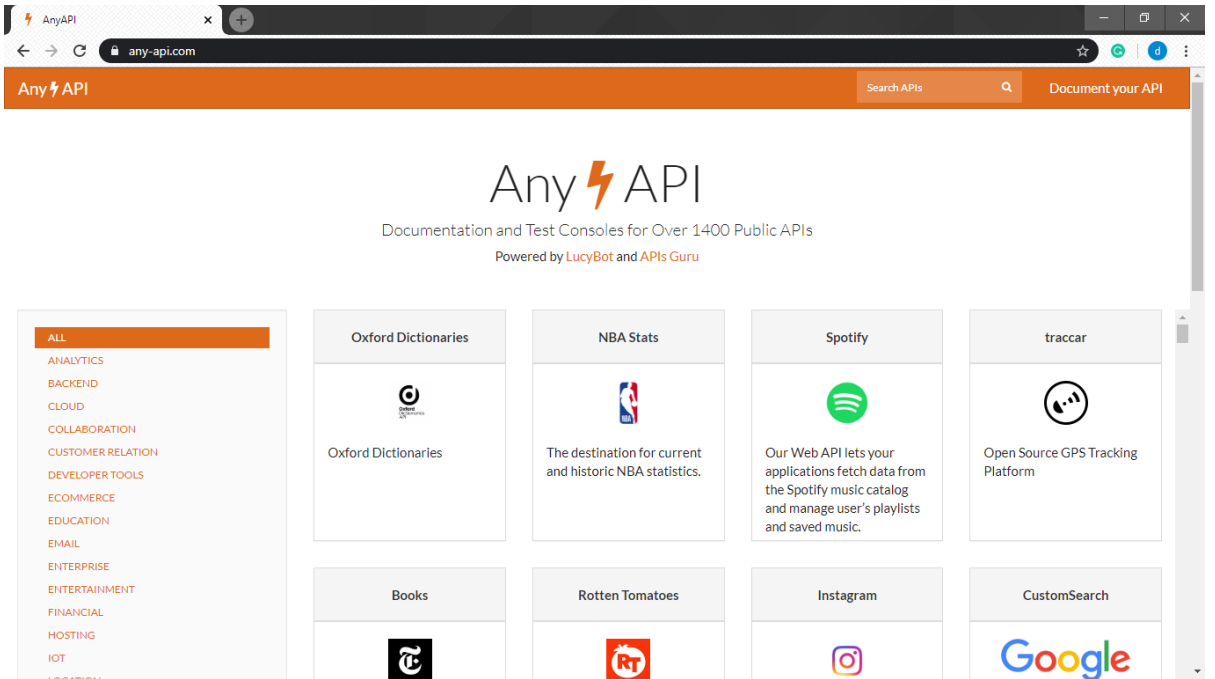
Jurusan Teknologi Informasi Politeknik Negeri Malang
Jobsheet-6: Pengenalan JSON, penggunaan postman, Public API, Restful API, cURL
Mata Kuliah Pemrograman Web Lanjut
Pengampu: Tim Ajar Pemrograman Web Lanjut
Februari 2020

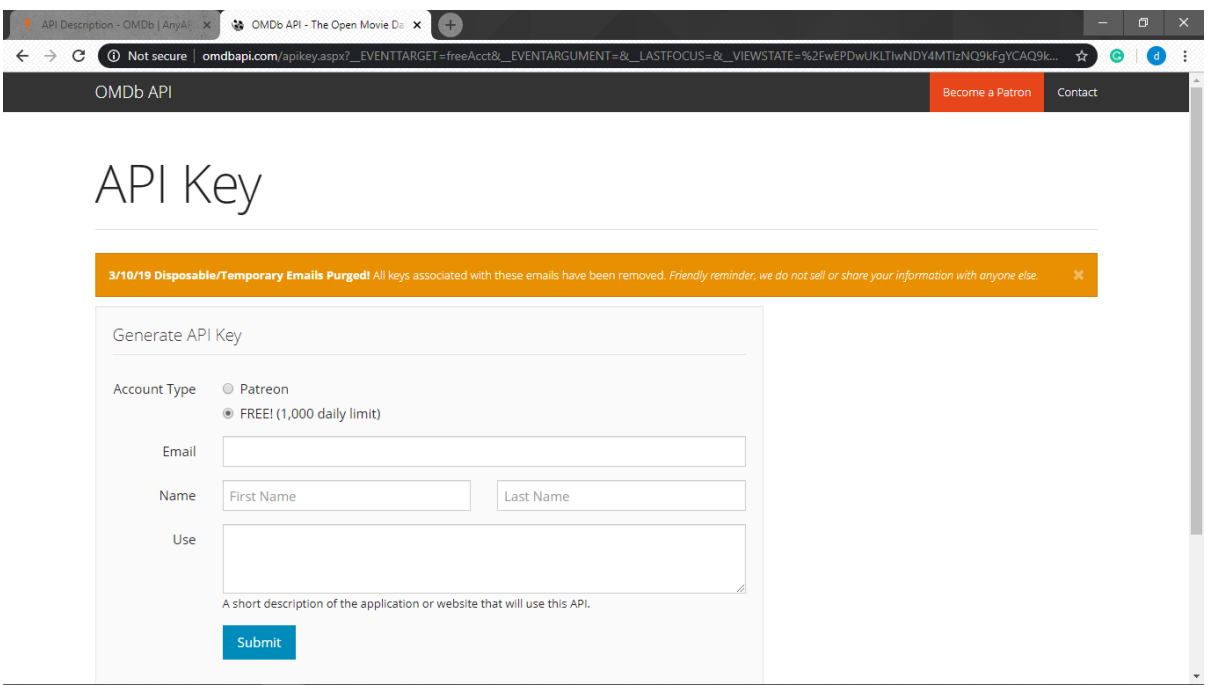
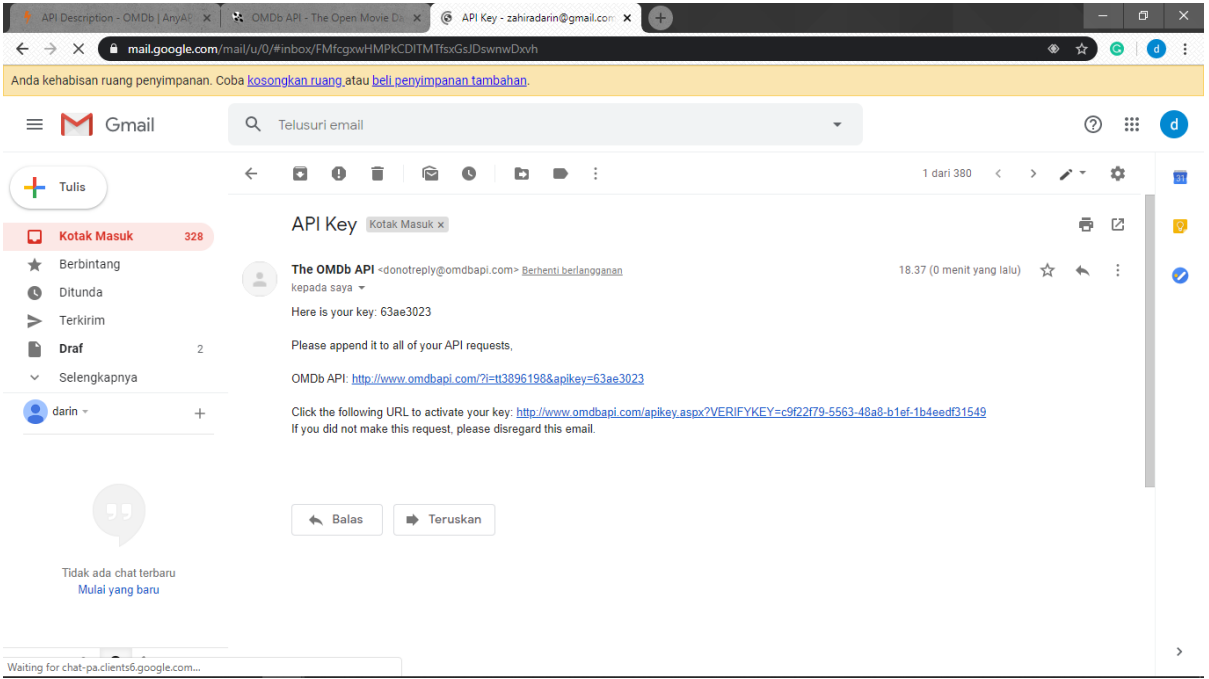
NAMA : Darin Zahira Aflah

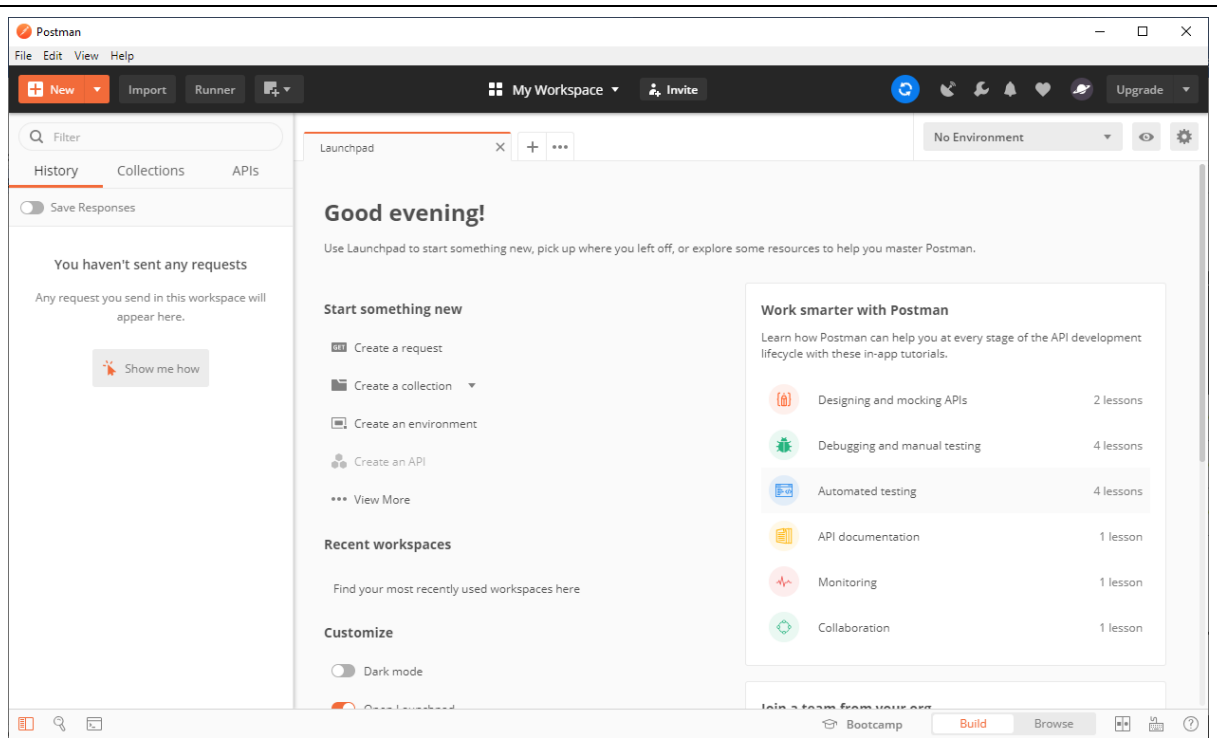
Kelas : TI2A

NIM : 1841720033

Praktikum – Bagian 1: Registrasi Account di layanan Public API dan Test API menggunakan Postman

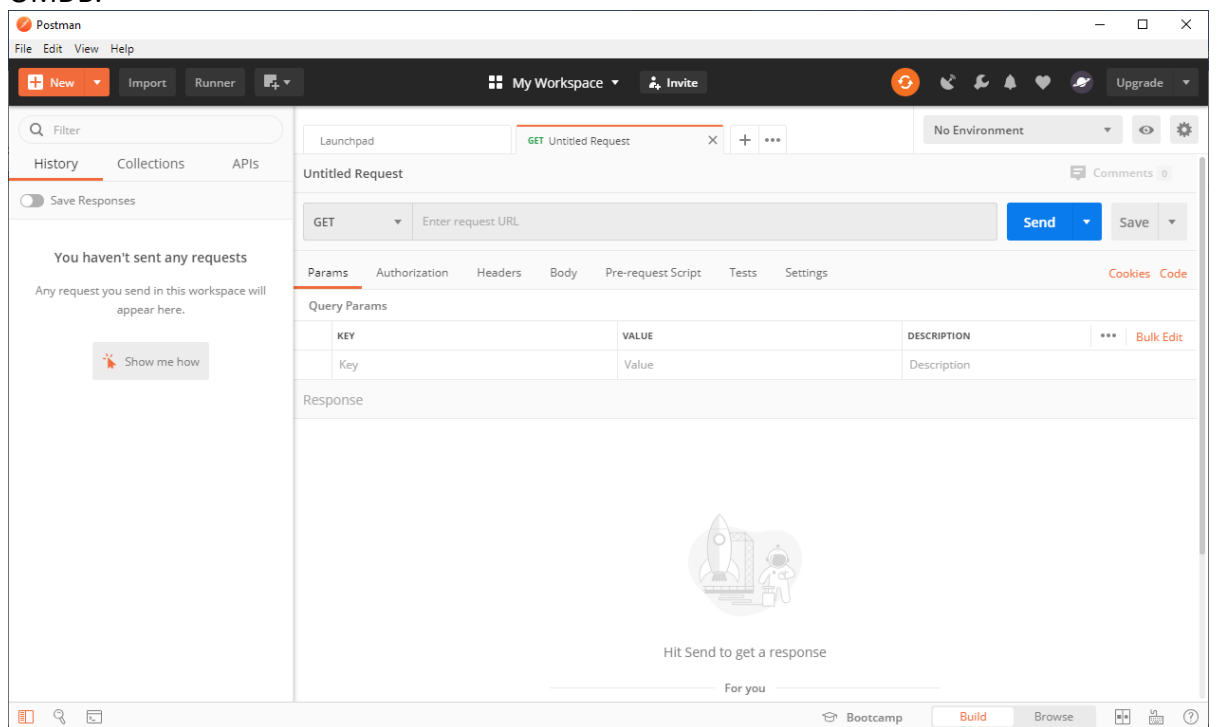
Langkah	Keterangan
1	<p>Buka website Any API untuk melihat public api yang bisa digunakan. Pilih OMDb untuk membuat project website pencarian movie.</p> 
2	<p>Registrasi pada website OMDb untuk mendapatkan kunci api. Kunci api ini digunakan sebagai otentifikasi saat menggunakan api di OMDb.</p>

	
3	<p>Selajutnya kita akan menerima email berisi kunci api, kunci api tersebut harus diaktifkan dengan membuka link yang disertakan dalam email.</p> 
4	<p>Setelah mendapat kunci api, kita dapat melakukan ujicoba kunci api tersebut dengan menggunakan aplikasi Postman. Sebelumnya lakukan instalasi aplikasi postman yang sudah didownload pada halaman https://www.postman.com/downloads/. Lakukan instalasi sampai selesai dan aplikasi postman dapat berjalan seperti gambar dibawah ini.</p>



5

Selanjutnya Klik + **new tab** pada jendela postman, dan masukkan parameter untuk api OMDB.



6

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

API Description - OMDb | AnyA... x OMDb API - The Open Movie Da... x API Key - zahradann@gmail.co... x OMDb API - The Open Movie Da... x

Not secure omdbapi.com

OMDb API Usage Parameters Examples Change Log API Key Become a Patron Contact

Parameters

By ID or Title

Parameter	Required	Valid Options	Default Value	Description
i	Optional*		<empty>	A valid IMDb ID (e.g. tt1285016)
t	Optional*		<empty>	Movie title to search for.
type	No	movie, series, episode	<empty>	Type of result to return.
y	No		<empty>	Year of release.
plot	No	short, full	short	Return short or full plot.
r	No	json, xml	json	The data type to return.
callback	No		<empty>	JSONP callback name.
v	No		1	API version (reserved for future use).

*Please note while both "i" and "t" are optional at least one argument is required.

By Search

Postman-win64-7...exe Show all

7

Masukan parameter key dan value berupa **api key**, value berupa **key**, code pencarian **s** dan judul film yang akan dicari, misalnya **terminator**.

Postman

File Edit View Help

New Import Runner My Workspace Invite No Environment Upgrade

Filter

History Collections APIs

Save Responses Clear all

Today

GET http://www.omdbapi.com/?i=tt3896198&apikey=63ae3023&s=terminator

GET http://www.omdbapi.com/?apikey=tt3896198&s=terminator

Launchpad GET http://www.omdbapi.com/?i=tt... + ...

Untitled Request

GET http://www.omdbapi.com/?i=tt3896198&apikey=63ae3023&s=terminator

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
i	tt3896198	
apikey	63ae3023	
s	terminator	
Key	Value	Description

Body Cookies (1) Headers (15) Test Results Status: 200 OK Time: 853ms Size: 2.65 KB Save Response

Pretty Raw Preview Visualize JSON

```

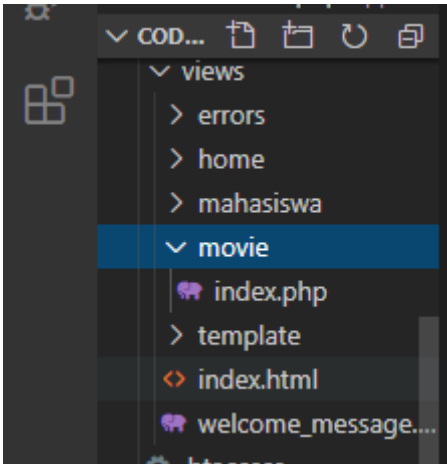
1 {
2   "Search": [
3     {
4       "Title": "Terminator 2: Judgment Day",
5       "Year": "1991",
6       "IMDbID": "tt0103084",
7       "Type": "movie",
8       "Poster": "https://m.media-amazon.com/images/M/
9         MV5BNGU2NzRmZjU0OGUyS00zjdjLWUwZWY2Y2I1M2JhbnJkcnRfMTFmXkE5XkFqGdeQXVyNjU0OTQ0OTY@_V1_SX300.jpg"
10    }
11  ]
12 }
```

Bootcamp Build Browse

8

Jika parameter sesuai, akan didapatkan hasil berupa respon JSON dari website OMDb seperti gambar ini.

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

Langkah	Keterangan
1	Duplikasi Project Code-Ketiga dan berilah nama project Code-ketujuh
2	<p>Lakukan perubahan konfigurasi <code>\$config['base_url'] = 'http://localhost/rest-api/Code-ketujuh/';</code> pada config.php</p> <pre>21 22 If you need to allow multiple domains, remember that this file is still 23 a PHP script and you can easily do that on your own. 24 25 */ 26 \$config['base_url'] = 'http://localhost/code-ketujuh/'; 27</pre>
3	<p>Buatlah sebuah file index.php pada folder view/movie/ dan tuliskan script seperti gambar dibawah ini:</p> 

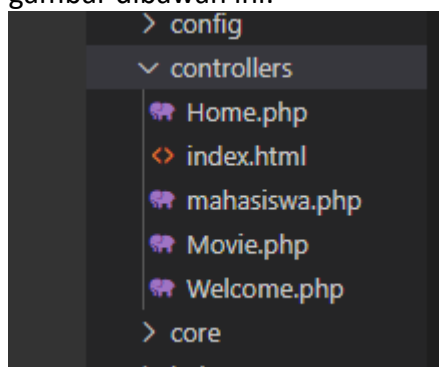
```

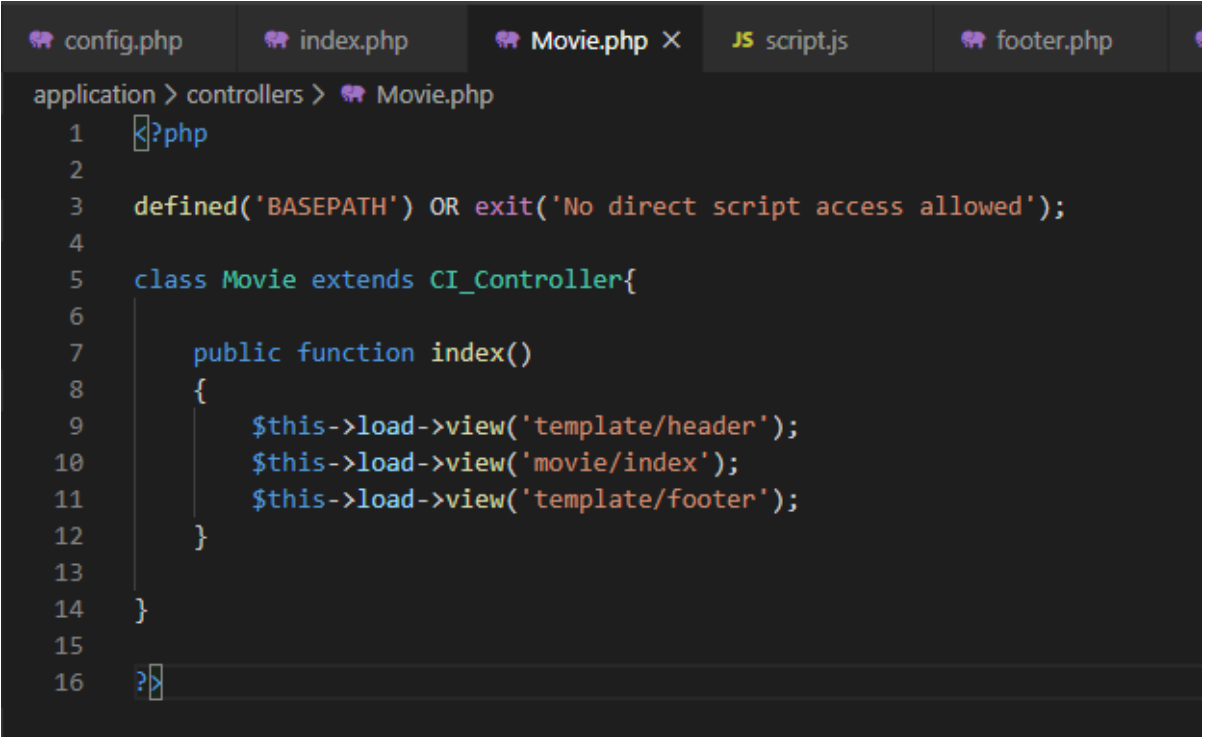
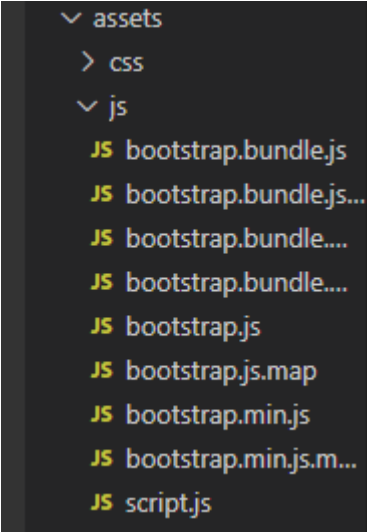
config.php index.php X Movie.php JS script.js footer.php header.php
application > views > movie > index.php
1 <div class="container mt-3">
2   <div class="row justify-content-center">
3     <div class="col-md-8">
4       <div class="input-group mb-3">
5         <input type="text" id="search-text" class="form-control"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

```

4

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



	 <pre> config.php index.php Movie.php X JS script.js footer.php application > controllers > Movie.php 1 <?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 { 9 \$this->load->view('template/header'); 10 \$this->load->view('movie/index'); 11 \$this->load->view('template/footer'); 12 } 13 14 } 15 16 ?> </pre>
5	<p>Selanjutnya buat file javascript script.js pada folder assets/js/ kemudian tuliskan script seperti gambar dibawah ini:</p>  <pre> assets ├── css ├── js │ ├── bootstrap.bundle.js │ ├── bootstrap.bundle.js... │ ├── bootstrap.bundle.... │ ├── bootstrap.bundle.... │ ├── bootstrap.js │ ├── bootstrap.js.map │ ├── bootstrap.min.js │ ├── bootstrap.min.js.m... │ └── script.js </pre>


```

config.php index.php Movie.php JS script.js x footer.php header.php
assets > js > JS script.js > searchMovies
1  $('#search-text').on('keyup', function(e){
2      if(e.keyCode == 13)
3      {
4          searchMovies();
5      }
6  })
7
8  $('#btn-search').on('click', function(e){
9      searchMovies();
10 })
11 $('#movie-list').on('click', '#btn-details', function(e){
12     $.ajax({
13         url: 'http://www.omdbapi.com',
14         type: 'GET',
15         dataType: 'json',
16         data: {
17             'apikey' : '46280940', //API Key
18             'i' : $(this).data('id') //parameter i untuk pencarian film berdasarkan id film /omdbID
19         },
20         success: function(result){
21             if(result.Response === "True"){
22                 $('#modal-body').html('');
23                 $('#modal-body').append(`
24                     <div class="row">
25                         <div class="col-md-4">
26                             <img src="" + result.Poster +`" class="img-fluid">
27                         </div>
28                         <div class="col-md-8">
29                             <ul class="list-group">
30                                 <li class="list-group-item"><h4>`+ result.Title +`</h4></li>
31                                 <li class="list-group-item">Released : `+ result.Release +`</li>
32                                 <li class="list-group-item">Genre : `+ result.Genre +`</li>
33                                 <li class="list-group-item">Writer : `+ result.Writer +`</li>
34                                 <li class="list-group-item">Actors : `+ result.Actors +`</li>
35                                 <li class="list-group-item">Production : `+ result.Production +`</li>
36                                 <li class="list-group-item">Plot : `+ result.Plot +`</li>
37                             </ul>
38                         </div>
39                     </div>
40                 `);
41             }
42         }
43     });
44 })
45 });
46 })
47
48 function searchMovies(){
49     $.ajax({
50         url: 'http://www.omdbapi.com',
51         type: 'GET',
52         dataType: 'json',
53         data: {
54             'apikey' : '46280940', //API Key
55             's' : $('#search-text').val()
56         },
57         success: function(result){
58             let movies = result.Search;
59             $('#movie-list').html('');
60             if(result.Response == "True"){
61                 $.each(movies, function(i, data){
62                     $('#movie-list').append(`<div class="col-md-4 mb-3">
63                         <div class="card" style="width: 18rem;">
64                             <img src="" + data.Poster +`" class="card-img-top" height="300px">
65                             <div class="card-body"><h5 class="card-title">`+ data.Title +`</h5>
66                             <p class="card-text">Year : `+ data.Year +`</p>

```

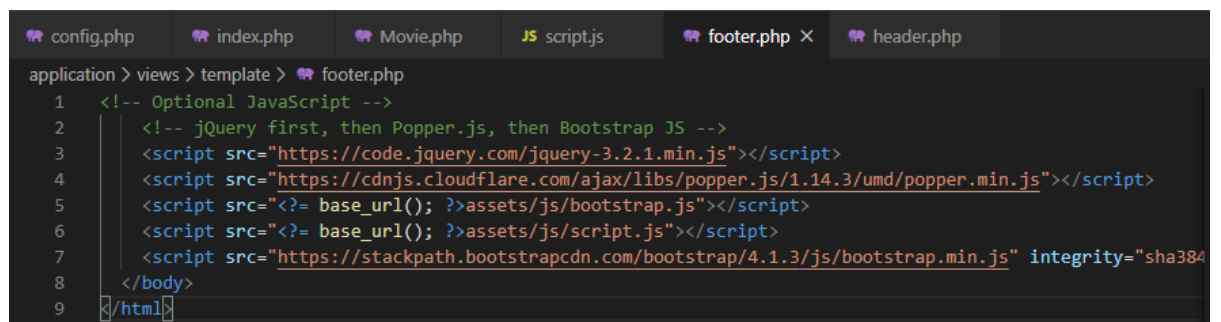
```

66         <p class="card-text">Year : `+ data.Year +`</p>
67         <a href="#" class="btn btn-primary" id="btn-details" data-id="+ data.imdbID +`
68         data-toggle="modal" data-target="#exampleModal">Show Details</a>
69     </div></div></div>
70     `);
71     })
72     }else{
73         $('#movie-list').append(`
74         <div class="col-sm-12 text-center">
75             <h1>` + result.Error + `</h1>
76         </div>
77         `);
78     }
79 }
80 });
81
82 $('#search-text').val("");
83 }

```

6

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



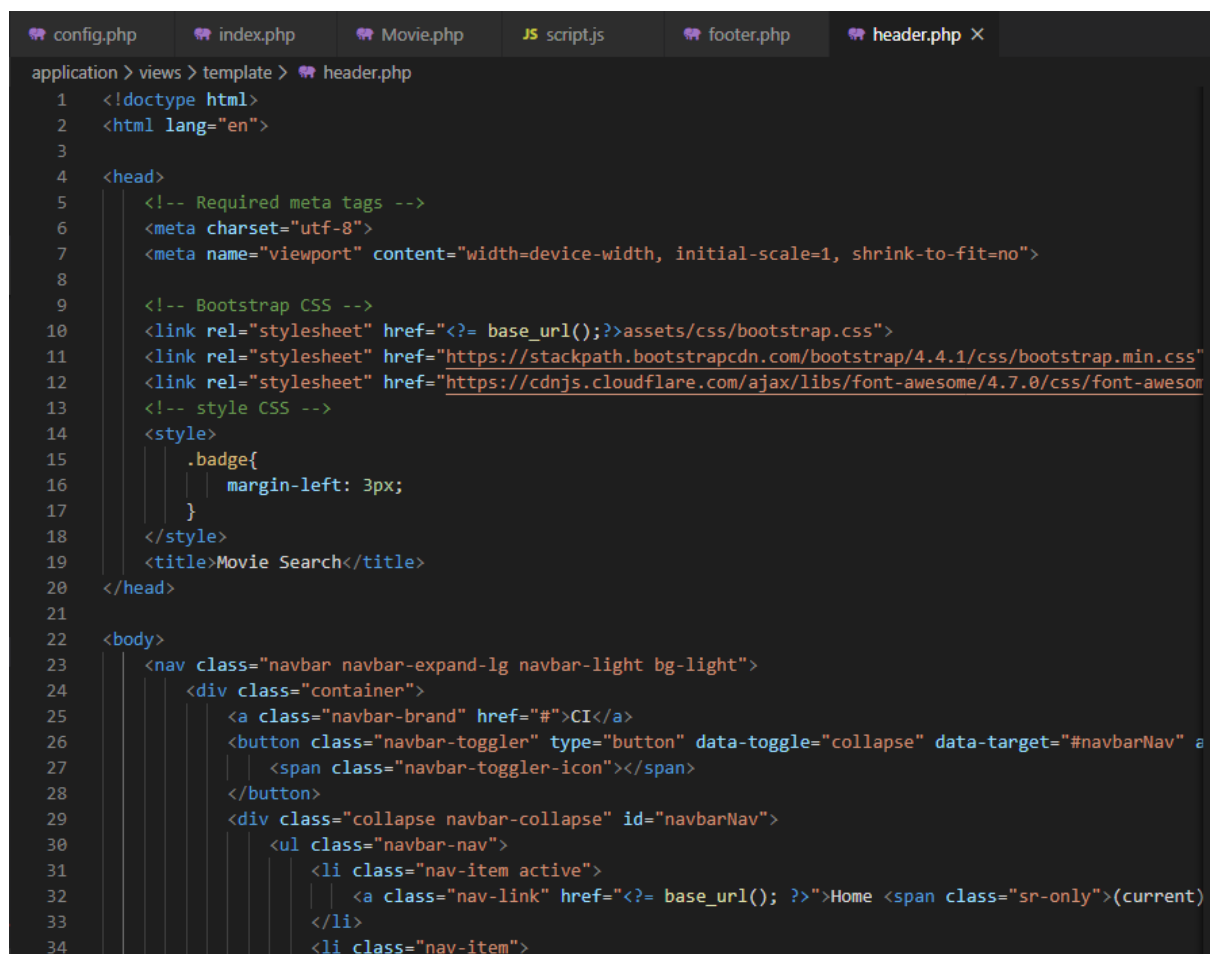
```

application > views > template > footer.php
1  <!-- Optional JavaScript -->
2  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
3  <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
4  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"></script>
5  <script src="<?= base_url(); ?>assets/js/bootstrap.js"></script>
6  <script src="<?= base_url(); ?>assets/js/script.js"></script>
7  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384
8  </body>
9  </html>

```

7

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



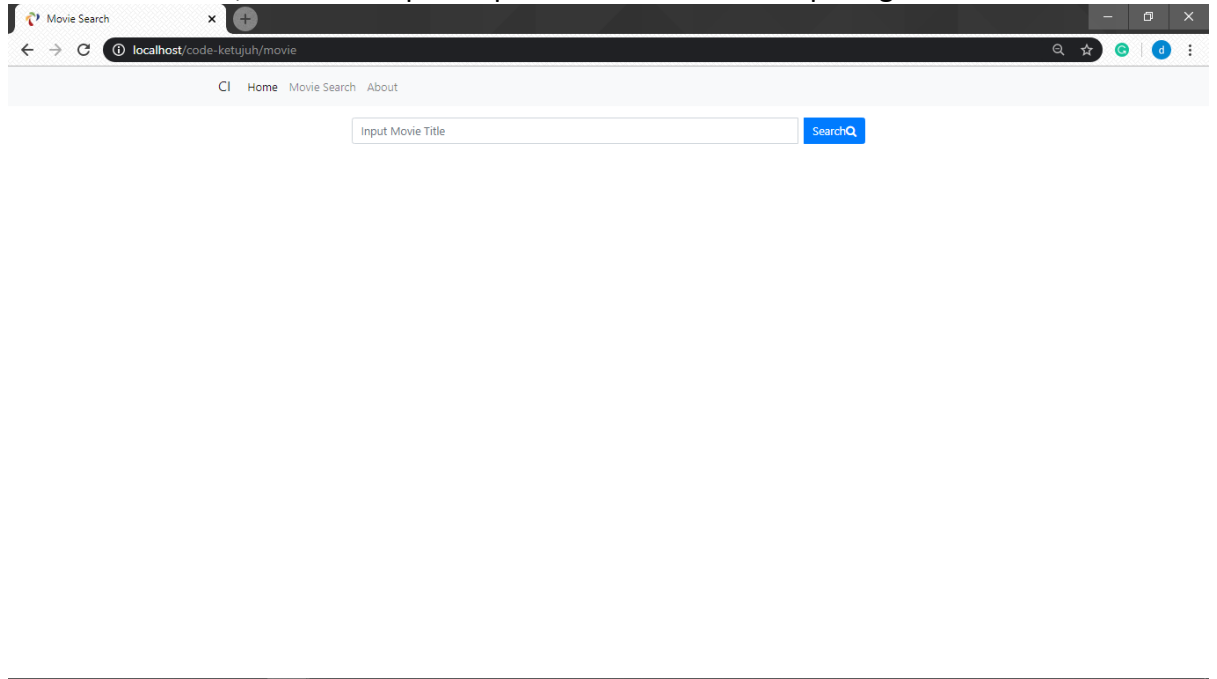
```

application > views > template > header.php
1  <!doctype html>
2  <html lang="en">
3
4  <head>
5      <!-- Required meta tags -->
6      <meta charset="utf-8">
7      <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
8
9      <!-- Bootstrap CSS -->
10     <link rel="stylesheet" href="<?= base_url(); ?>assets/css/bootstrap.css">
11     <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
12     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
13     <!-- style CSS -->
14     <style>
15         .badge{
16             margin-left: 3px;
17         }
18     </style>
19     <title>Movie Search</title>
20 </head>
21
22 <body>
23     <nav class="navbar navbar-expand-lg navbar-light bg-light">
24         <div class="container">
25             <a class="navbar-brand" href="#">CI</a>
26             <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" a
27             <span class="navbar-toggler-icon"></span>
28             </button>
29             <div class="collapse navbar-collapse" id="navbarNav">
30                 <ul class="navbar-nav">
31                     <li class="nav-item active">
32                         <a class="nav-link" href="<?= base_url(); ?>">Home <span class="sr-only">(current)
33                     </li>
34                     <li class="nav-item">

```

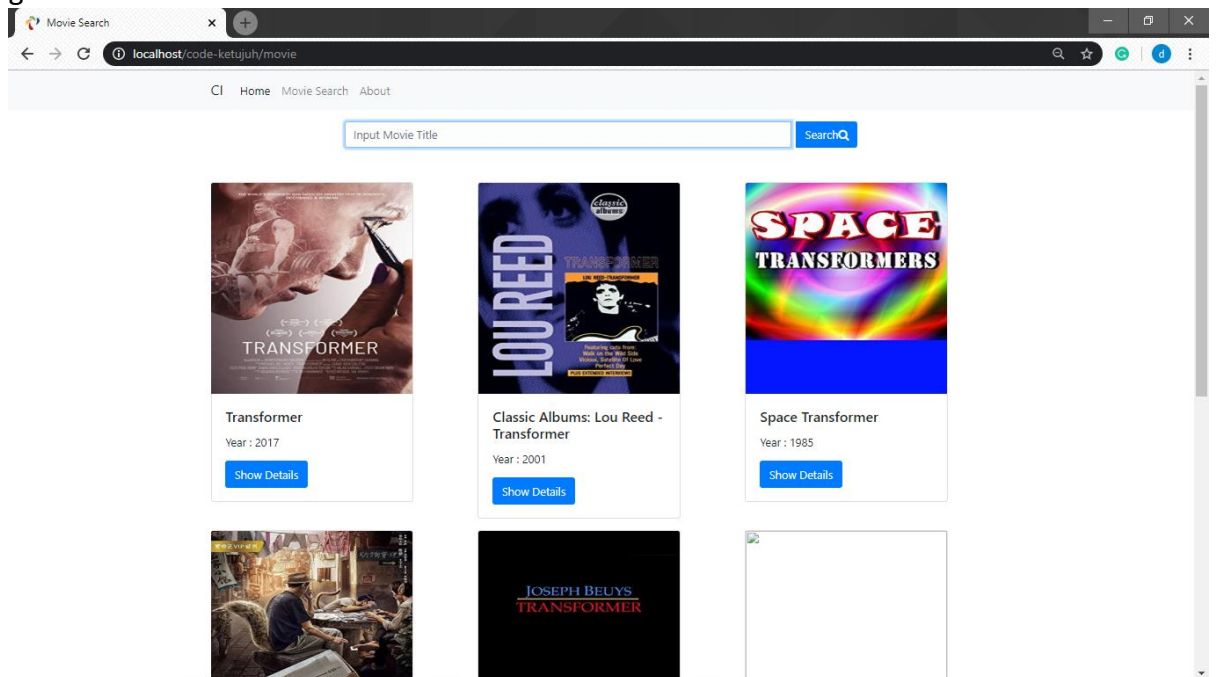
8

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



9

Lakukan pencarian informasi film dengan mengetikan keyword berupa judul film seperti gambar dibawah ini:



-- Selamat Mengerjakan --