LAPORAN TUGAS PEMROGRAMAN WEB LANJUT

Jobsheet 7
Pengenalan JSON, penggunaan postman,Public API, Restful API, cURL

Disusun Oleh :

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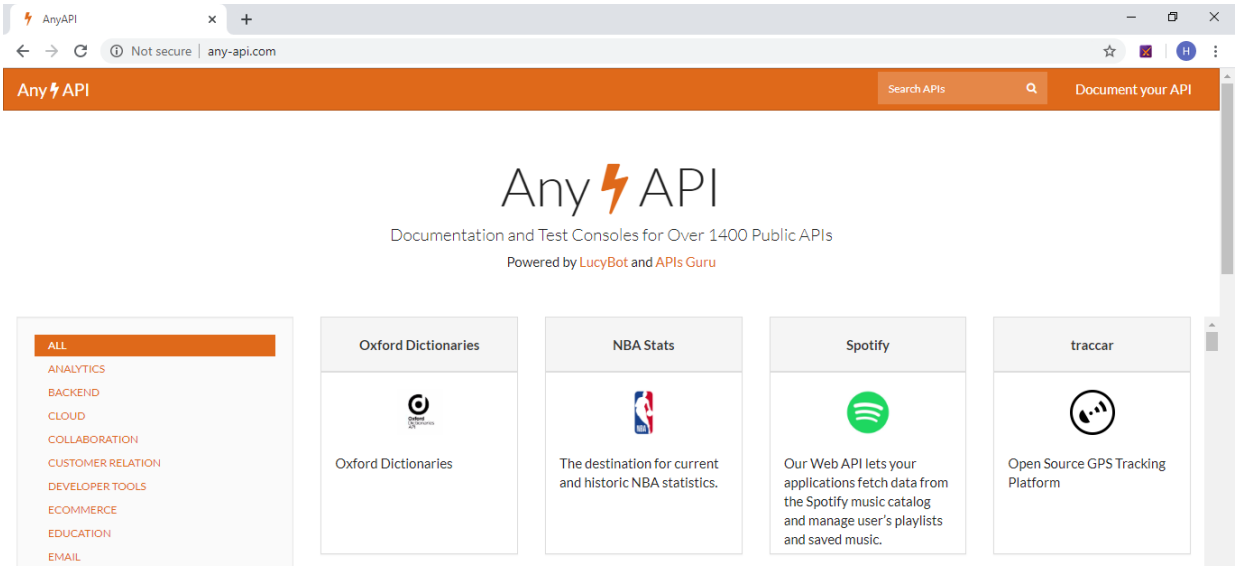
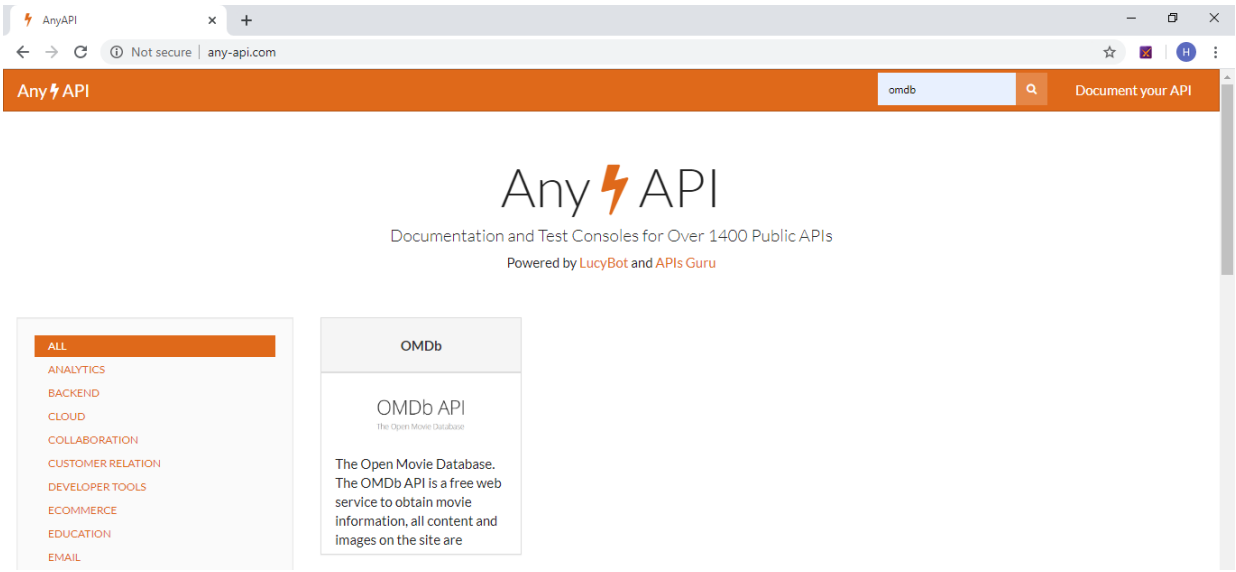
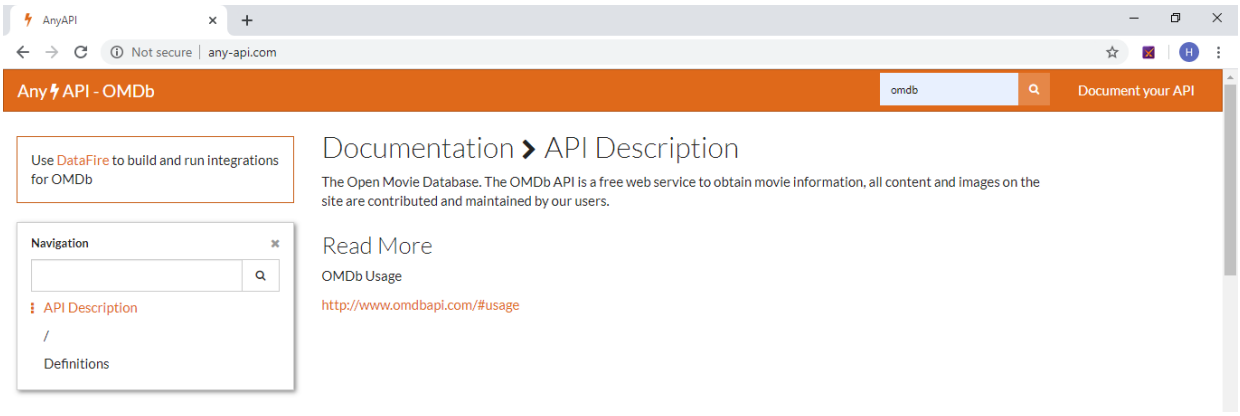
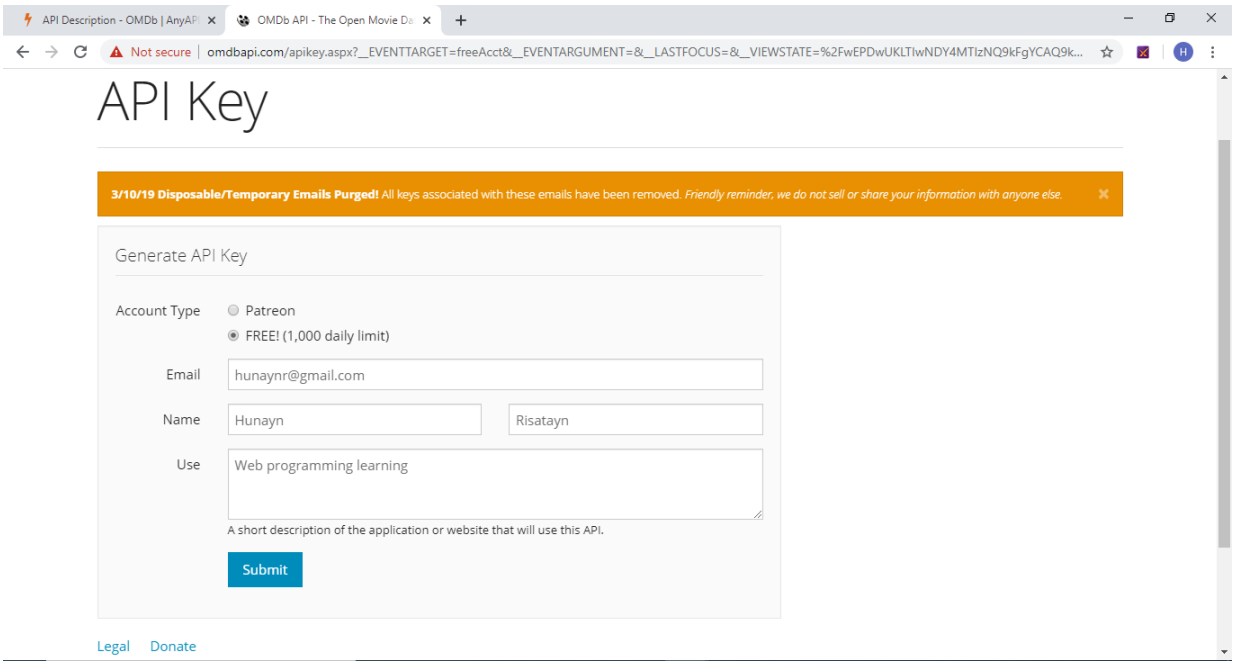
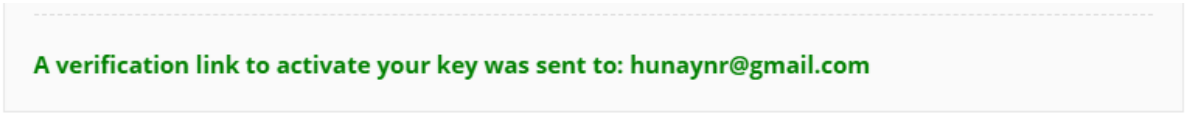
Praktikum – Bagian 1: Registrasi Account di layanan Public API dan Test API menggunakan Postman

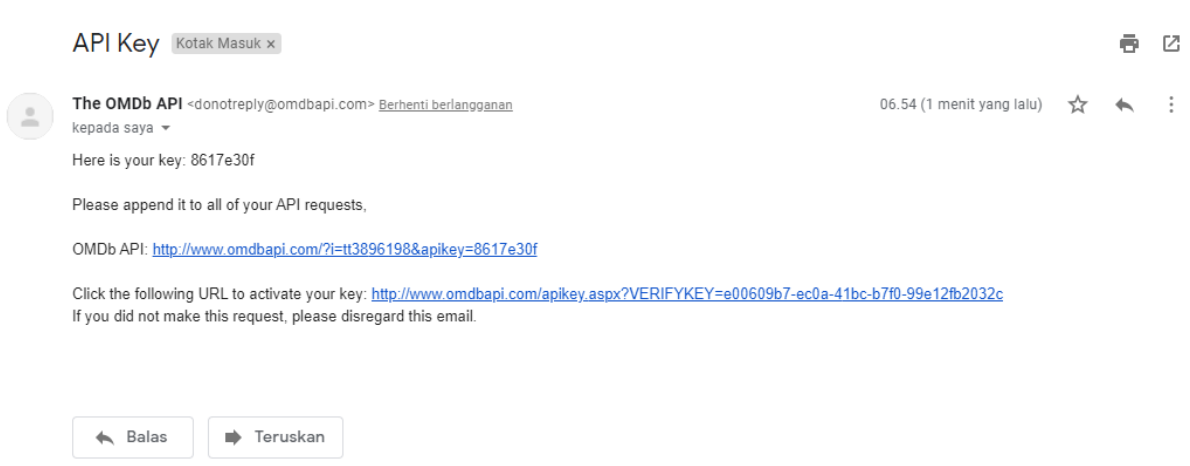
Langkah	Keterangan
1	Buka website Any API untuk melihat public api yang bisa digunakan. Pilih OMDB untuk membuat project website pencarian movie.   
2	Registrasi pada website OMDB untuk mendapatkan kunci api. Kunci api ini digunakan sebagai otentifikaasi saat menggunakan api di OMDB.





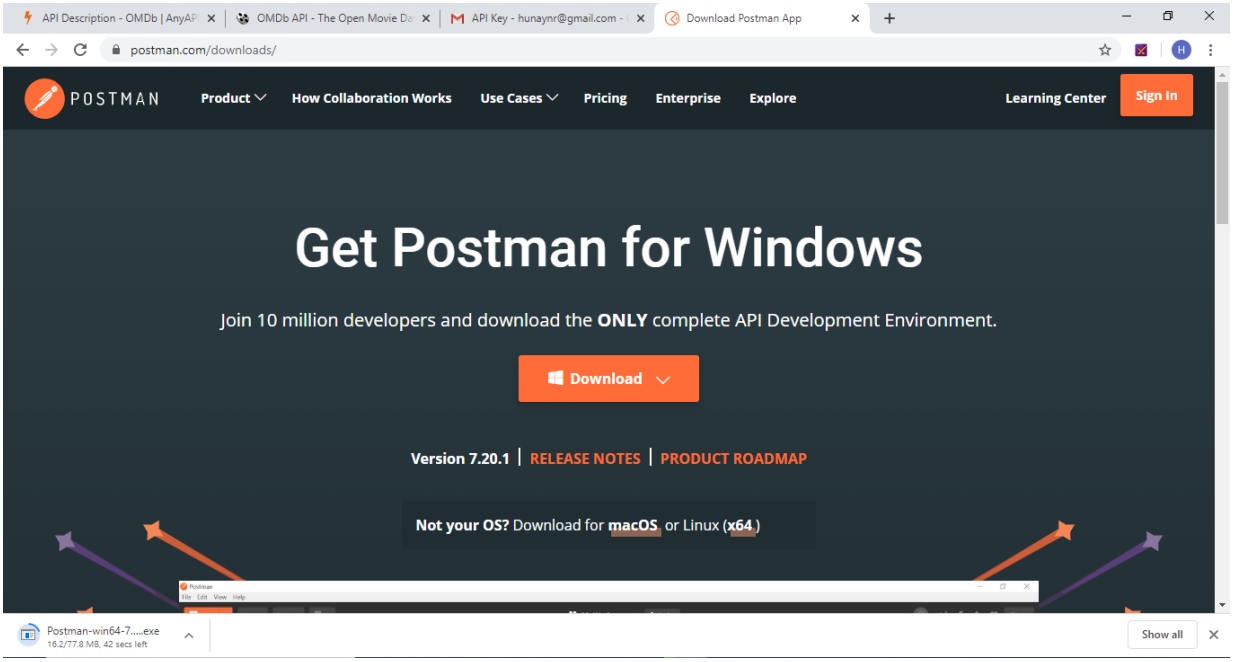
3

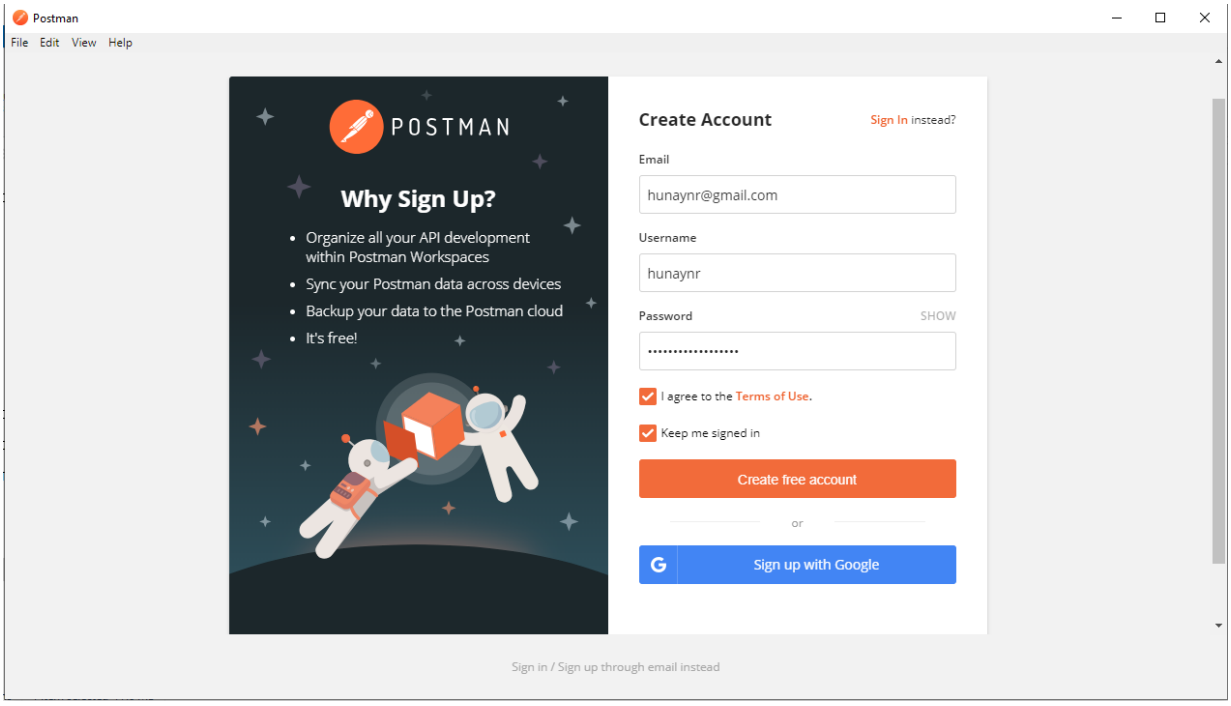
Selajutnya kita akan menerima email berisi kunci api, kunci api tersebut harus diaktifkan dengan membuka link yang disertakan dalam email.

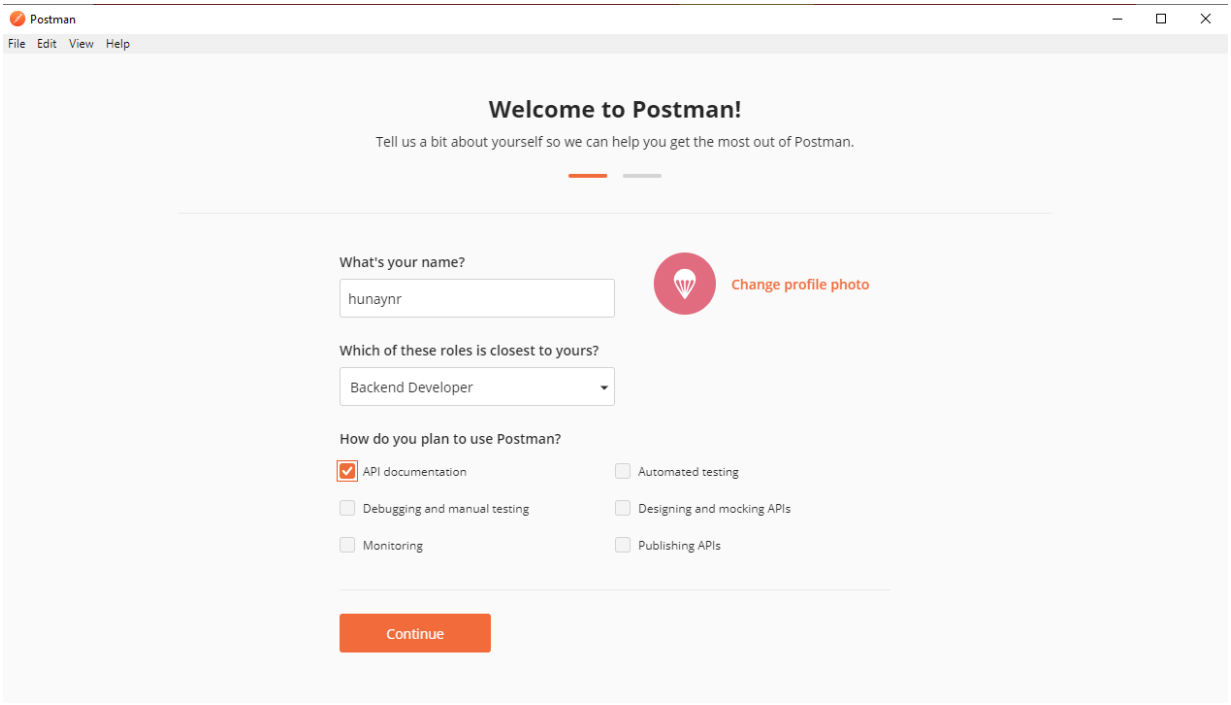


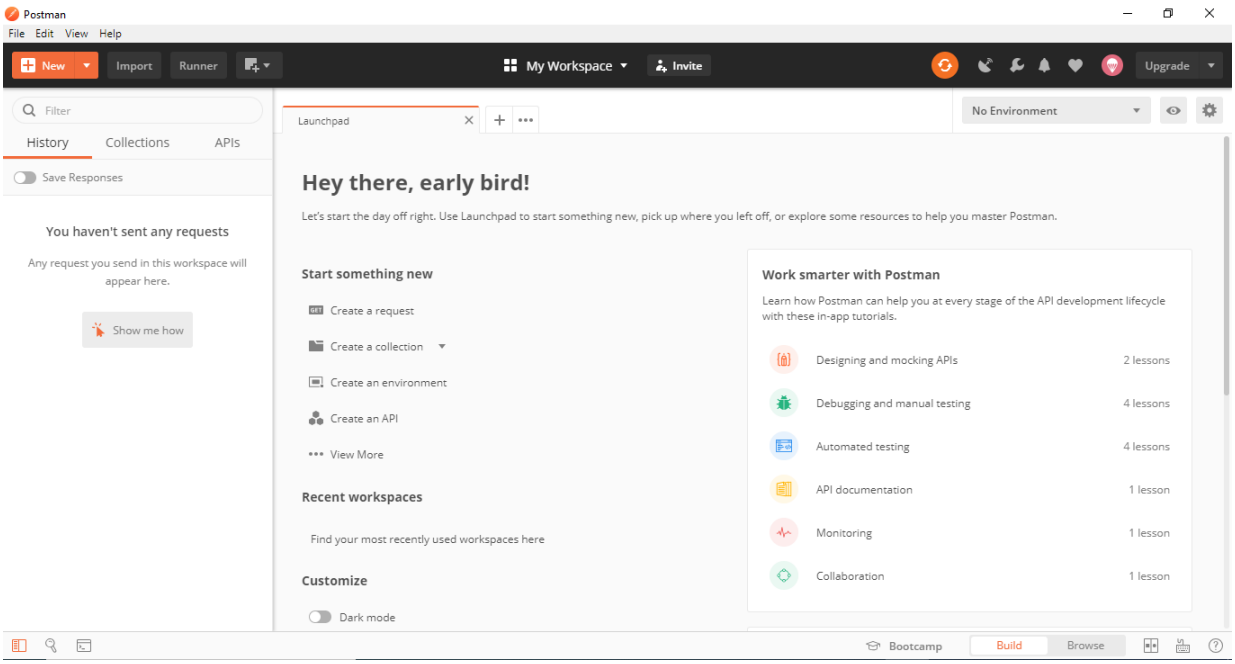
4

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.

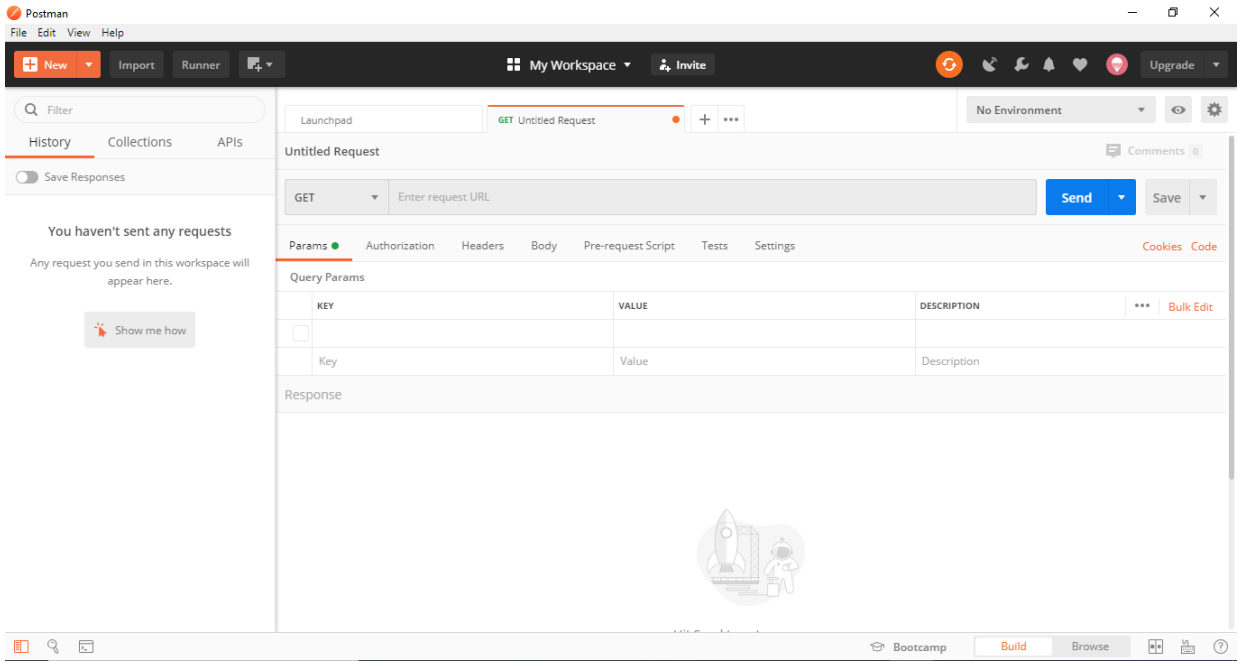

API Description - OMDb | AnyAPI
OMDb API - The Open Movie Da
API Key - hunaynr@gmail.com -
Download Postman App
postman.com/downloads/
POSTMAN
Product
How Collaboration Works
Use Cases
Pricing
Enterprise
Explore
Learning Center
Sign In
Get Postman for Windows
Join 10 million developers and download the ONLY complete API Development Environment.
Download
Version 7.20.1 | RELEASE NOTES | PRODUCT ROADMAP
Not your OS? Download for macOS or Linux (x64)
Postman-win64-7.....exe
16.2/77.8 MB, 42 secs left
Show all


Postman
File Edit View Help
POSTMAN
Why Sign Up?
Organize all your API development within Postman Workspaces
Sync your Postman data across devices
Backup your data to the Postman cloud
It's free!
Create Account
Sign In instead?
Email
hunaynr@gmail.com
Username
hunaynr
Password
SHOW
I agree to the Terms of Use.
Keep me signed in
Create free account
or
Sign up with Google
Sign in / Sign up through email instead



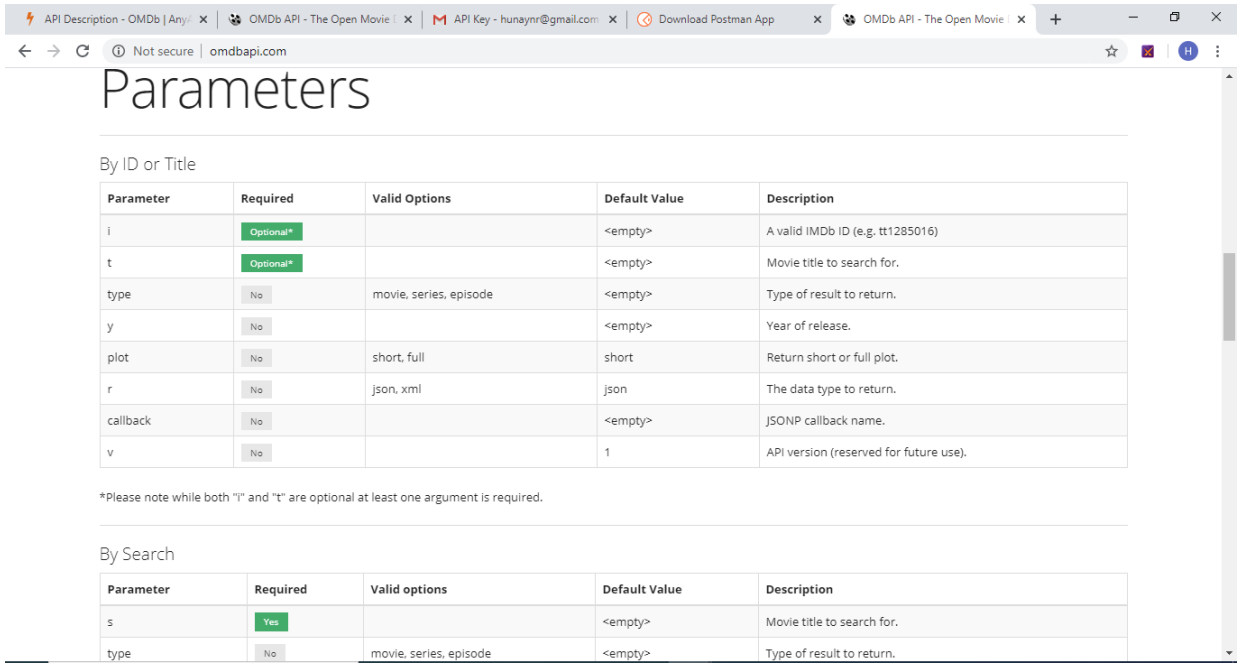


5	Selanjutnya Klik + **new tab** pada jendela postman, dan masukkan parameter untuk apii OMDB.



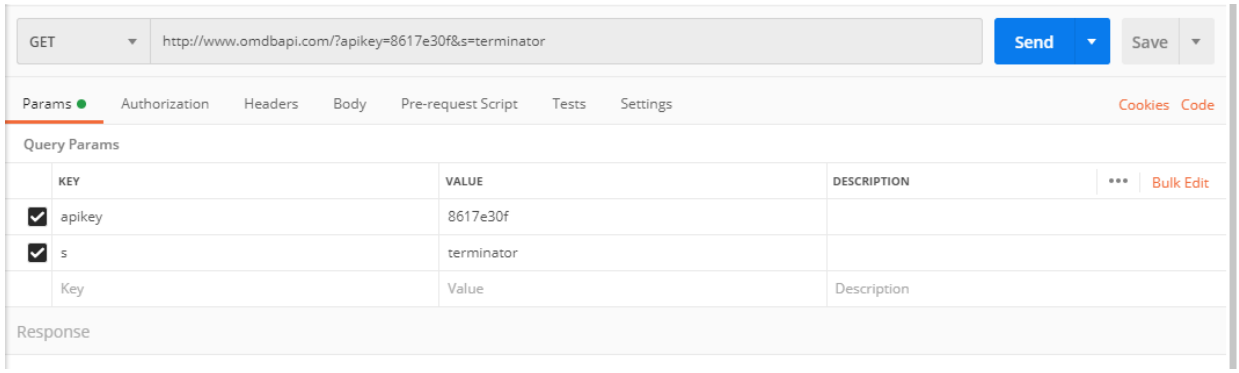
6

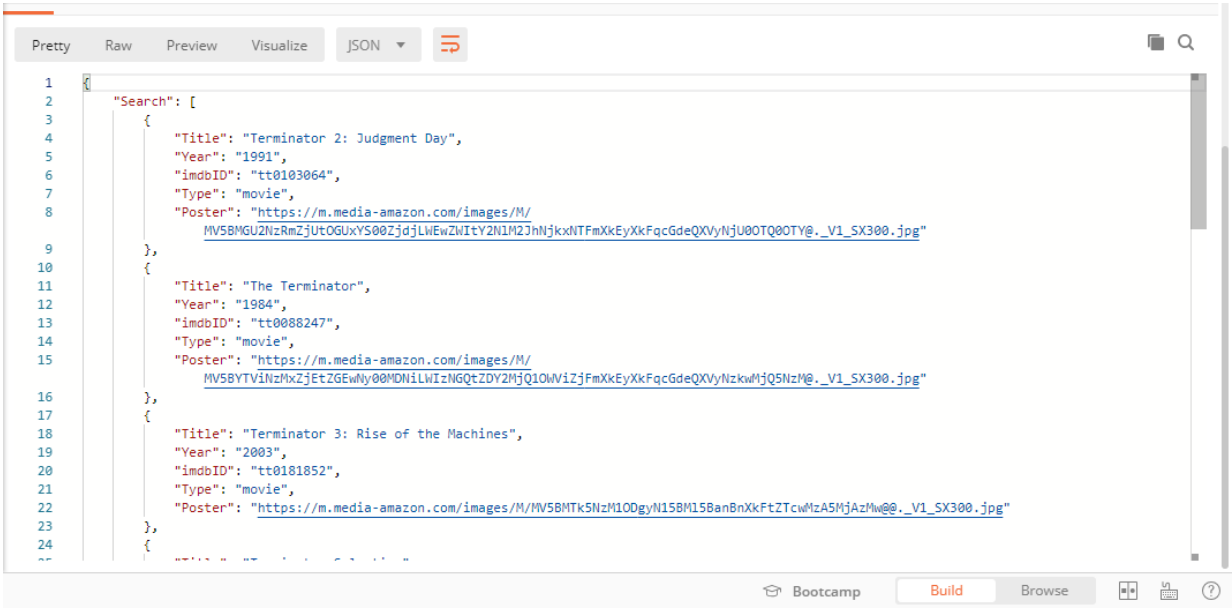
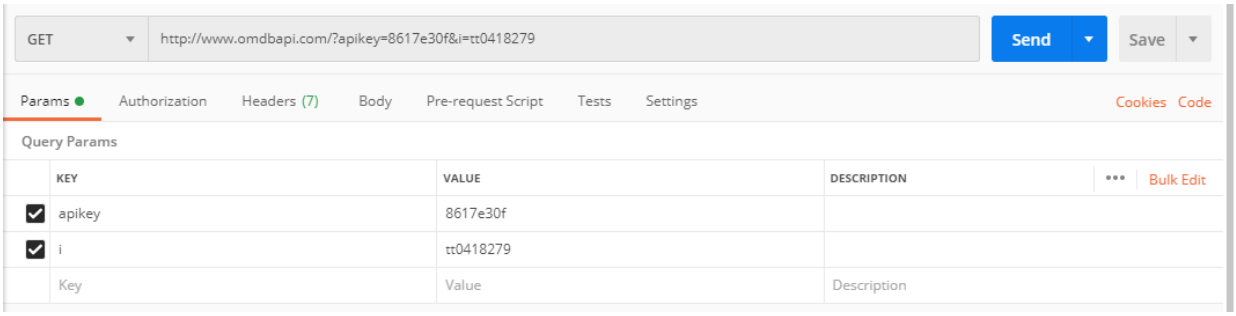
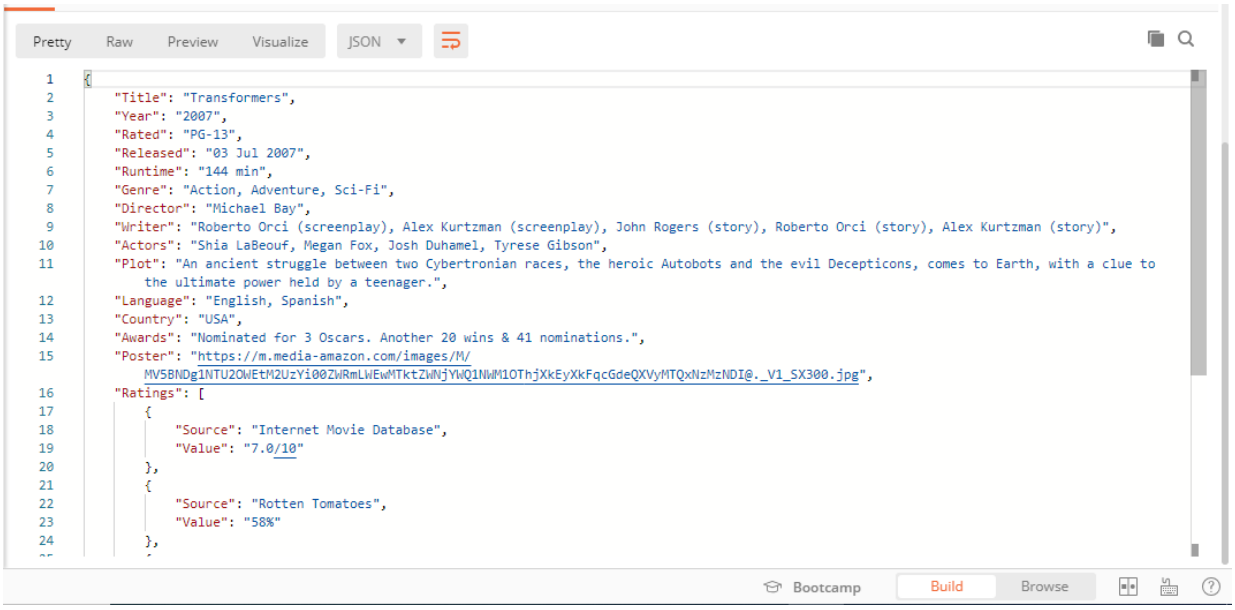
Untuk list parameter dapat dilihat pada website http://www.omdbapi.com/. Kita gunakan parameter **s** untuk mencari film berdasarkan judul film.



7

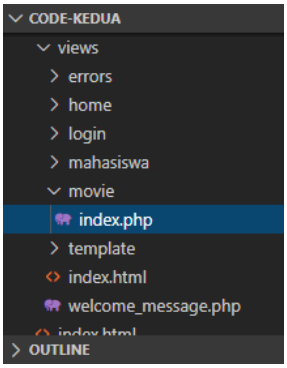
Masukan parameter key dan value berupa **api key**, value berupa **key**, code pencarian **s** dan judul film yang akan dicari, misalnya **terminator**.



8	Jika parameter sesuai, akan didapatkan hasil berupa respon JSON dari website OMDB seperti gambar ini. 
9	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

Langkah	Keterangan
1	Buatlah sebuah file **index.php** pada folder **view/movie/** dan tuliskan script seperti gambar dibawah ini:



application > views > movie > index.php > div.container.mt-3 > div.row.justify-content-center > div.col-md-8

```
<div class="container mt-3">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="input-group mb-3">
                <input type="text" id="search-text" class="form-control" placeholder="Input Movie Title"
                    aria-label="Recipient's username" aria-describedby="button-addon2">
                <div class="input-group-append">
                    <button class="btn btn-primary ml-2" type="button" id="btn-search">Search
                        <i class="fa fa-search"></i></button>
                </div>
            </div>
        </div>
    </div>
    <hr>

    <div class="row" id="movie-list">

    </div>
    </div>

    <!-- Modal -->
    <div class="modal fade" id="exampleModal" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel"
        aria-hidden="true">
        <div class="modal-dialog modal-lg" role="document">
            <div class="modal-content">
                <div class="modal-header">
                    <h5 class="modal-title" id="exampleModalLabel">Movie Details</h5>
                    <button type="button" class="close" data-dismiss="modal" aria-label="Close">
                        <span aria-hidden="true">&times;</span>
                    </button>
                </div>
                <div class="modal-body">
```

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application > views > movie > index.php > div.container.mt-3 > div.row.justify-content-center > div.col-md-8

```
    </div>
    <hr>

    <div class="row" id="movie-list">

    </div>
    </div>

    <!-- Modal -->
    <div class="modal fade" id="exampleModal" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel"
        aria-hidden="true">
        <div class="modal-dialog modal-lg" role="document">
            <div class="modal-content">
                <div class="modal-header">
                    <h5 class="modal-title" id="exampleModalLabel">Movie Details</h5>
                    <button type="button" class="close" data-dismiss="modal" aria-label="Close">
                        <span aria-hidden="true">&times;</span>
                    </button>
                </div>
                <div class="modal-body">

                </div>
                <div class="modal-footer">
                    <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
                </div>
            </div>
        </div>
    </div>
```

2

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

application > controllers > Movie.php > PHP Intelephense > 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');
    }
}

/* End of file Movie.php */

```

3

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

assets > js > script.js > searchMovies

```
$('#search-text').on('keyup', function (e) {
    if (e.keycode == 13) {
        searchMovies();
    }
});

$('#btn-search').on('click', function (e) {
    searchMovies();
});

$('#movie-list').on('click', '#btn-details', function (e) {
    $.ajax({
        url: 'http://www.omdbapi.com',
        type: 'GET',
        dataType: 'json',
        data: {
            'apikey': '8617e30f',
            'i': $(this).data('id')
        },
        success: function (result) {
            if (result.Response === "True") {
                $('.modal-body').html('');
                $('.modal-body').append(`
                    <div class="container-fluid">
                        <div class="row">
                            <div class="col-md-4">
                                <img src="` + result.Poster + `" class="img-fluid">
                            </div>
                            <div class="col-md-8">
                                <ul class="list-group">
                                    <li class="list-group-item"><h4>`+ result.Title + `</h4></li>
                                    <li class="list-group-item">Released : `+ result.Released + `</li>
                                    <li class="list-group-item">Genre : `+ result.Genre + `</li>
```

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assets > js > script.js > searchMovies

```
                                    <li class="list-group-item">Writer : `+ result.Writer + `</li>
                                    <li class="list-group-item">Actors : `+ result.Actors + `</li>
                                    <li class="list-group-item">Production : `+ result.Production + `</li>
                                    <li class="list-group-item">Plot : `+ result.Plot + `</li>
                                </ul>
                            </div>
                        </div>
                    </div>
                `);
            }
        }
    });
})

function searchMovies() {
    $.ajax({
        url: 'http://www.omdbapi.com',
        type: 'GET',
        dataType: 'json',
        data: {
            'apikey': '8617e30f',
            's': $('#search-text').val()
        },
        success: function (result) {
            let movies = result.Search;
```

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assets > js > JS script.js > searchMovies

```
            's': $('#search-text').val()
        },
        success: function (result) {
            let movies = result.Search;
            $('#movie-list').html('');
            if (result.Response == "True") {
                $.each(movies, function (i, data) {
                    $('#movie-list').append(`<div class="col-md-4 mb-3>
                        <div class="card" style="width: 18rem;">
                        <img src="`+ data.Poster + `" class="card-img-top" height="300px">
                        <div class="card-body"><h5 class="card-title">`+ data.Title + `</h5>
                        <p class="card-text">Year : `+ data.Year + `</p>
                        <a href="#" class="btn btn-primary" id="btn-details" data-id="`+ data.imdbID + `"
                        data-toggle="modal" data-target="#exampleModal">Show Details</a>
                        </div></div></div>
                    `);
                })
            } else {
                $('#movie-list').append(`
                    <div class="col-sm-12 text-center">
                        <h1>` + result.Error + `</h1>
                    </div>
                `);
            }
        }
    });

    $('#search-text').val("");
}
```

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

application > views > template > footer.php > ...

```
<!-- Optional JavaScript -->
<!-- jQuery first, then Popper.js, then Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
  <!-- <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
  integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
  crossorigin="anonymous"></script> -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
  integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
  crossorigin="anonymous"></script>
<script src="<?= base_url(); ?>assets/js/bootstrap.js"></script>
<script src="<?= base_url(); ?>assets/js/script.js"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
  integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
  crossorigin="anonymous"></script>
</body>

</html>
```

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

application > views > template > header.php > html > head

```php
<!doctype html>
<html lang="en">

<head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="<?= base_url(); ?>assets/css/bootstrap.css">
  <link rel="stylesheet" href="http://cdnjs.cloudfare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
    integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
    crossorigin="anonymous">

  <!-- Style CSS -->
  <style>
    .badge {
      margin-left: 3px;
    }
  </style>

  <!-- <title>Hello, world!</title> -->
  <title><?= $title ?></title>
</head>

<body>
  <nav class="navbar navbar-expand-lg navbar-light bg-light">
    <div class="container">
      <a class="navbar-brand" href="#">CI</a>
      <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
```

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application > views > template > header.php > html > head

```php
  <title><?= $title ?></title>
</head>

<body>
  <nav class="navbar navbar-expand-lg navbar-light bg-light">
    <div class="container">
      <a class="navbar-brand" href="#">CI</a>
      <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav">
          <li class="nav-item active">
            <a class="nav-item nav-link" href="<?= base_url(); ?>">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="movie">Movie Search</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">About</a>
          </li>
          <!-- <a class="nav-item nav-link" href="<?= base_url(); ?>mahasiswa">Data Mahasiswa</a>
            <a class="nav-item nav-link" href="<?= base_url(); ?>">About</a>
            <a class="nav-item nav-link" href="<?= base_url(); ?>login/logout">Logout</a> -->
          <li class="nav-item">
            <a class="nav-link disabled" href="#">Disabled</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>
```

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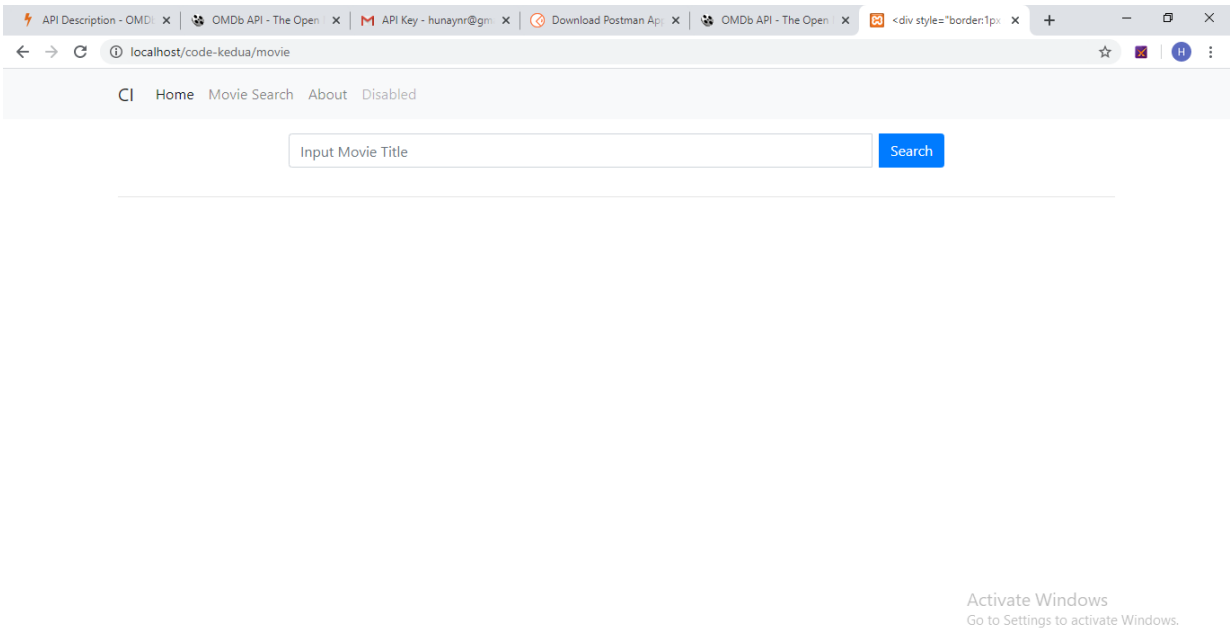
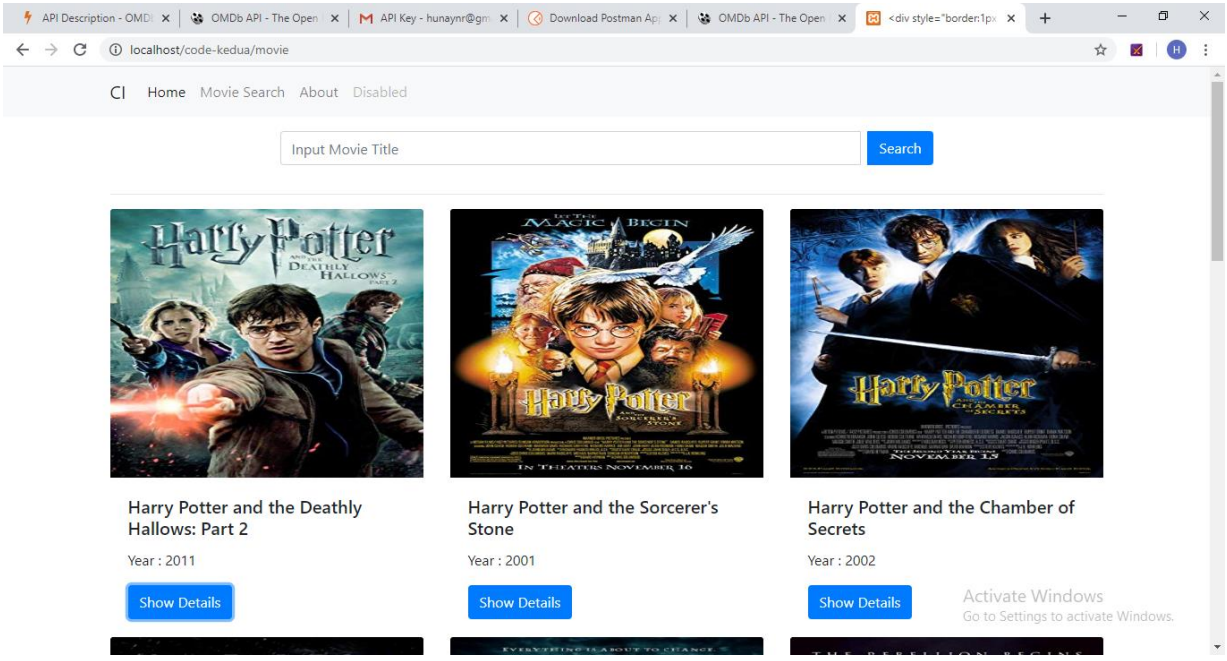
6	Jika sudah selesai, hasil akhir aplikasi pencarian film adalah seperti gambar dibawah ini:



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