

Instalasi & Konfigurasi Yii

Agenda

- Overview Studi Kasus
- Persiapan Lingkungan Kerja
- Mengenal Yii Framework
- Instalasi Yii
- Konfigurasi Yii

Overview Studi Kasus

Pemesanan Tiket Bioskop (go-cinema)

Fitur Aplikasi

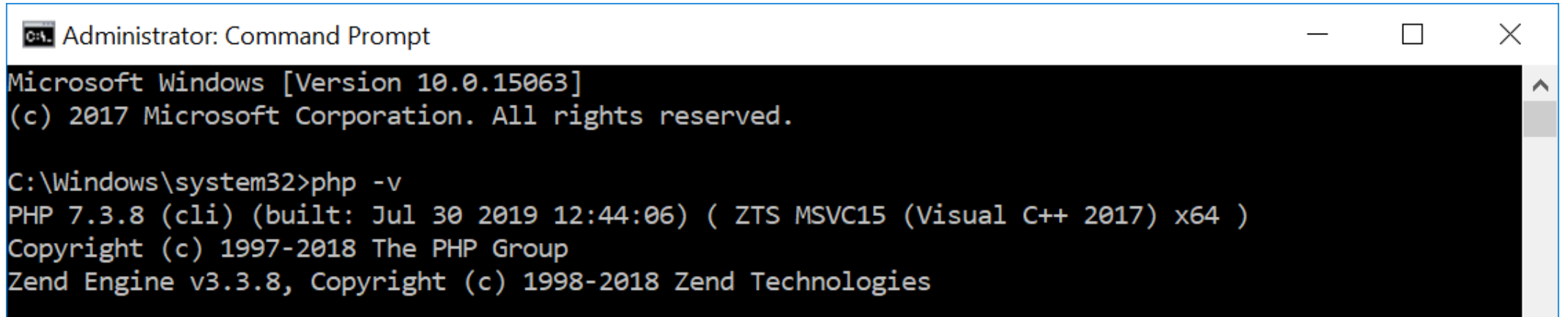
- Daftar film (search, filter)
- Jadwal film
- Registrasi & login user
- Multi level user (customer & admin)
- Pemesanan tiket
- Cetak tiket (pdf)
- Import & export data (optional)
- Visualiasi data pemesanan (optional)

Persiapan Lingkungan Kerja

PHP in CMD, Composer, Github, Guide

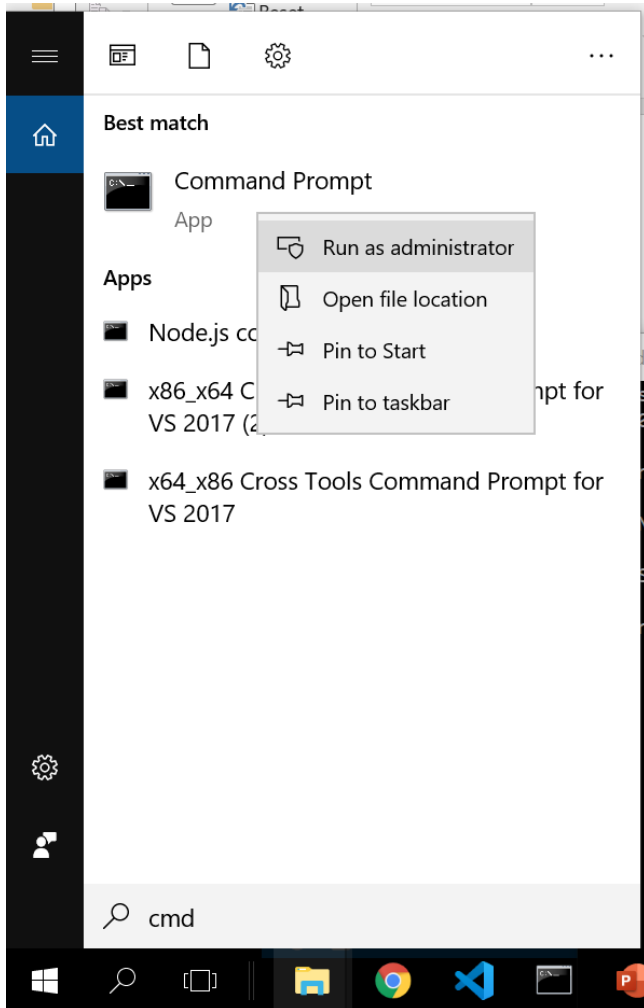
PHP in CMD

Pada CMD (command prompt), jalankan perintah
`php -v`

A screenshot of a Windows Command Prompt window titled "Administrator: Command Prompt". The window has standard Windows window controls (minimize, maximize, close) in the top right corner. The command prompt shows the following text:

```
Microsoft Windows [Version 10.0.15063]  
(c) 2017 Microsoft Corporation. All rights reserved.  
  
C:\Windows\system32>php -v  
PHP 7.3.8 (cli) (built: Jul 30 2019 12:44:06) ( ZTS MSVC15 (Visual C++ 2017) x64 )  
Copyright (c) 1997-2018 The PHP Group  
Zend Engine v3.3.8, Copyright (c) 1998-2018 Zend Technologies
```

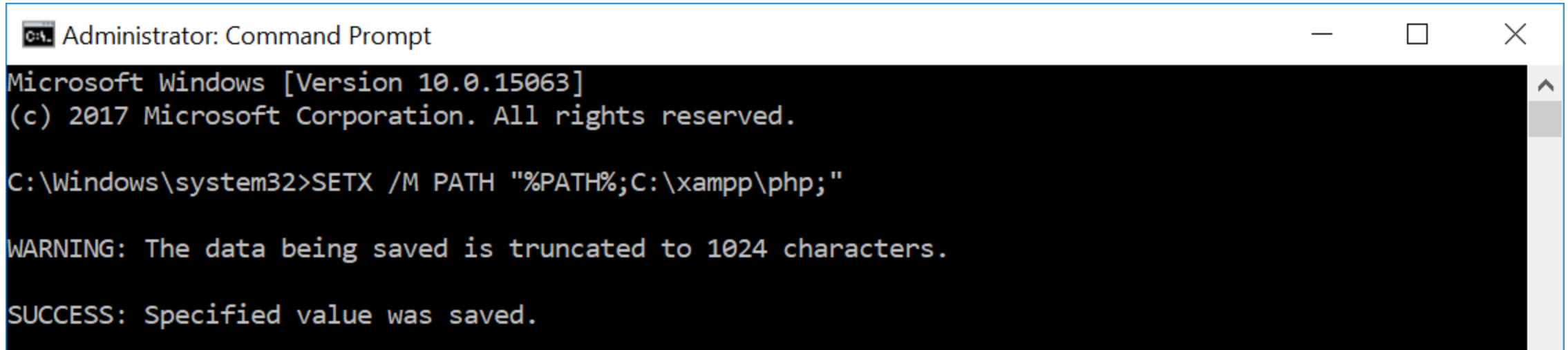
Jalankan CMD as Administrator



```
Administrator: Command Prompt  
Microsoft Windows [Version 10.0.15063]  
(c) 2017 Microsoft Corporation. All rights reserved.  
C:\Windows\system32>
```

Setting PHP pada Variable PATH

SETX /M PATH "%PATH%;C:\xampp\php;"



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Windows\system32>SETX /M PATH "%PATH%;C:\xampp\php;"

WARNING: The data being saved is truncated to 1024 characters.

SUCCESS: Specified value was saved.
```


Composer

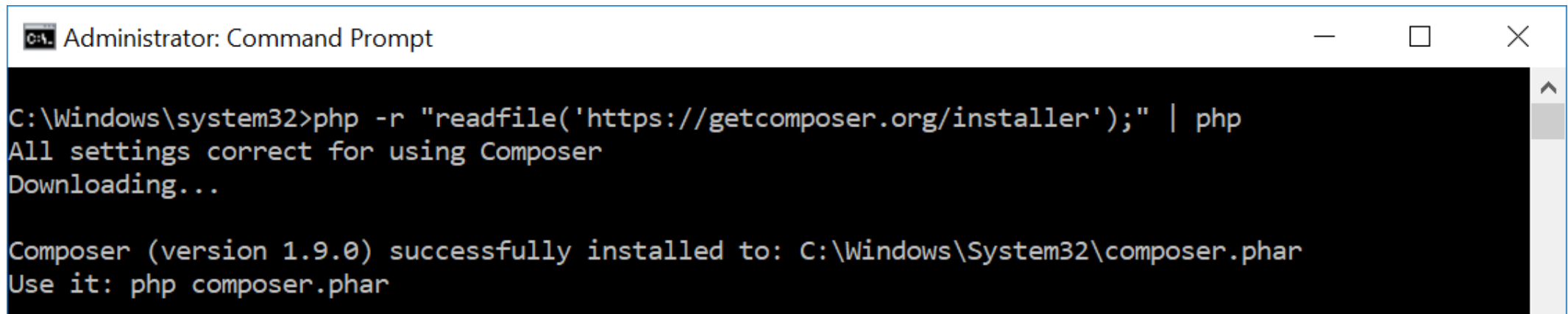
- **Definisi:** Dependecy manager untuk PHP, berfungsi sebagai installer online yang mirip apt-get di ubuntu.
- **Cara Kerja:** Composer akan mendownload file2 yang dibutuhkan dari server repository. Repository utama composer adalah packagist.org.
- <https://getcomposer.org/>



Instalasi Composer

Di windows cukup download: <https://getcomposer.org/Composer-Setup.exe>
Atau melalui CMD

```
php -r "readfile('https://getcomposer.org/installer');" | php
```

A screenshot of a Windows Command Prompt window titled "Administrator: Command Prompt". The window has a black background with white text. The command prompt shows the execution of the command to install Composer. The output indicates that all settings are correct, the installer is downloading, and Composer (version 1.9.0) is successfully installed to C:\Windows\System32\composer.phar. It also provides the instruction to use it via 'php composer.phar'.

```
C:\Windows\system32>php -r "readfile('https://getcomposer.org/installer');" | php
All settings correct for using Composer
Downloading...

Composer (version 1.9.0) successfully installed to: C:\Windows\System32\composer.phar
Use it: php composer.phar
```

Tips trik

Pastikan modul open-ssl aktif di php.ini

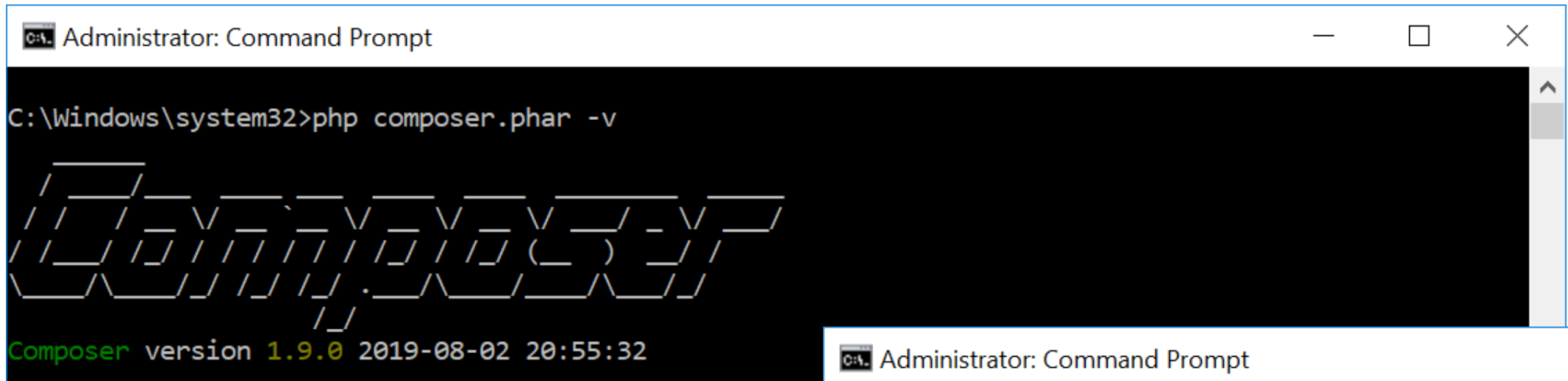
Jika koneksinya via proxy, maka perlu di set via CMD

```
set http_proxy=http://username:password@host:port
```

```
set https_proxy=https://username:password@host:port
```

Check Instalasi Composer

`php composer.phar -v`



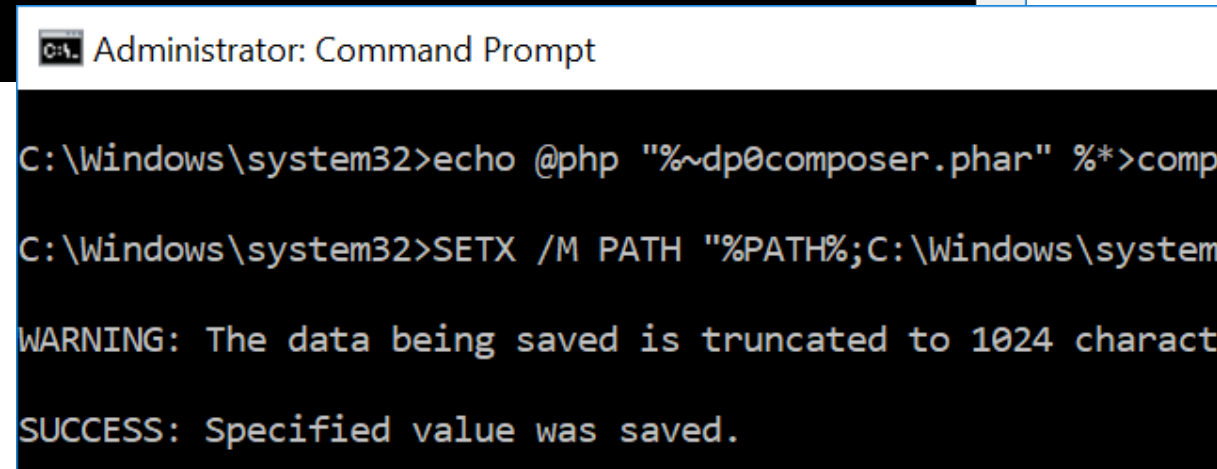
```
Administrator: Command Prompt

C:\Windows\system32>php composer.phar -v

Composer version 1.9.0 2019-08-02 20:55:32
```

Tips

`echo @php "%~dp0composer.phar" %*>composer.bat`
Daftarkan lokasi composer sebagai variabel PATH
`SETX /M PATH "%PATH%;C:\Windows\system32;"`



```
Administrator: Command Prompt

C:\Windows\system32>echo @php "%~dp0composer.phar" %*>comp
C:\Windows\system32>SETX /M PATH "%PATH%;C:\Windows\system
WARNING: The data being saved is truncated to 1024 charact
SUCCESS: Specified value was saved.
```

Tips Composer

`echo @php "%~dp0composer.phar" %*>composer.bat`

Daftarkan lokasi composer sebagai variabel PATH

`SETX /M PATH "%PATH%;C:\Windows\system32;"`

Administrator: Command Prompt

```
C:\Windows\system32>echo @php "%~dp0composer.phar" %*>composer.bat
```

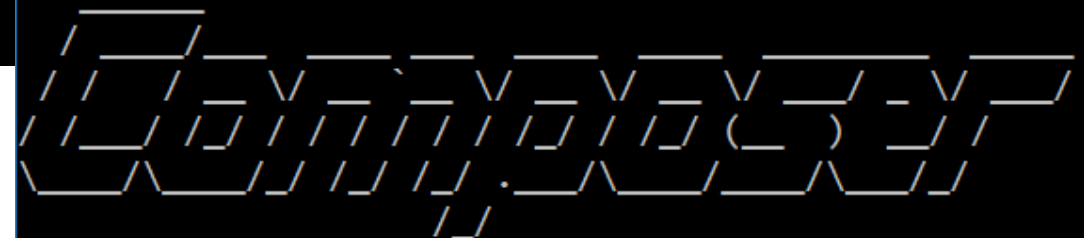
```
C:\Windows\system32>SETX /M PATH "%PATH%;C:\Windows\system32;"
```

```
WARNING: The data being saved is truncated to 1024 characters.
```

```
SUCCESS: Specified value was saved.
```

Administrator: Command Prompt

```
C:\Windows\system32>composer -v
```

The image shows the Composer logo, which is a stylized, geometric representation of the word 'Composer' in a light blue color. The logo is composed of various lines and shapes that form the letters in a modern, sans-serif font.

```
Composer version 1.9.0 2019-08-02 20:55:32
```

Github



Definisi:

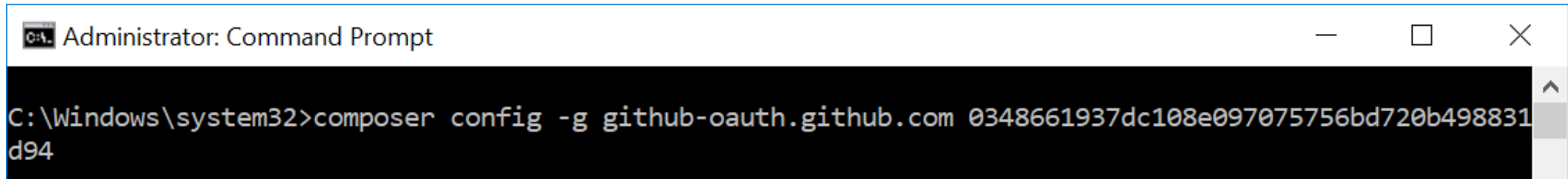
- Git merupakan tools yang berfungsi untuk mengontrol revisi secara terdistribusi dan manajemen source code (distributed revision control and source code management atau SCM).
- Sedangkan Github (<https://github.com/>) merupakan layanan berbasis web hosting untuk proyek-proyek pengembangan perangkat lunak yang menggunakan sistem kontrol revisi git.

Mengapa Github?:

Kode-kode sumber librari PHP umumnya dihosting di github dan untuk mendownloadnya, composer perlu berkomunikasi dengan API github

Setting OAuth Github (opsional)

- Buka laman setting application <https://github.com/settings/apps>
- Generate OAuth token (personal access token) <https://github.com/settings/tokens>
- `composer config -g github-oauth.github.com <oauthtoken>`

A screenshot of a Windows Command Prompt window titled "Administrator: Command Prompt". The window has standard Windows window controls (minimize, maximize, close) in the top right corner. The command prompt shows the following text:

```
C:\Windows\system32>composer config -g github-oauth.github.com 0348661937dc108e097075756bd720b498831d94
```

```
Administrator: Command Prompt
```

```
C:\Windows\system32>composer config -g github-oauth.github.com 0348661937dc108e097075756bd720b498831d94
```

Guide / Dokumentasi Yii

- Online: <https://www.yiiframework.com/doc/guide>
- Offline: <https://www.yiiframework.com/doc/download/yii-guide-2.0-id.pdf>

Mengenai Yii Framework



Apa itu Yii Framework?

- Yii adalah framework PHP, kumpulan kode PHP sebagai dasar untuk membangun berbagai jenis aplikasi berbasis web, misalnya: web portal, forum, CMS, e-commerce, web service, dll
- Fitur: MVC, support banyak database, ORM, caching, RESTful, code generator, security, application template, dsb
- Official Site: <http://www.yiiframework.com>
- Sejarah:
 - Mulai dikembangkan 2008, oleh Qiang Xue (sebelumnya dev framework Prado)
 - Versi 1.x 2008 – 2014 disupport hingga akhir 2018
 - Versi 2.x oktober 2014 – sekarang

[Last Version: Yii 2.0.27](#)

Application Template

An application template is a package that contains a skeleton Web application written in Yii which you can start building your application from

Feature	Basic	Advanced
Project structure	✓	✓
Site controller	✓	✓
User login/logout	✓	✓
Forms	✓	✓
DB connection	✓	✓
Console command	✓	✓
Asset bundle	✓	✓
Codeception tests	✓	✓
Twitter Bootstrap	✓	✓
Front- and back-end apps		✓
Ready to use User model		✓
User signup and password restore		✓

Instalasi Yii Framework

Install via Composer (recommended)

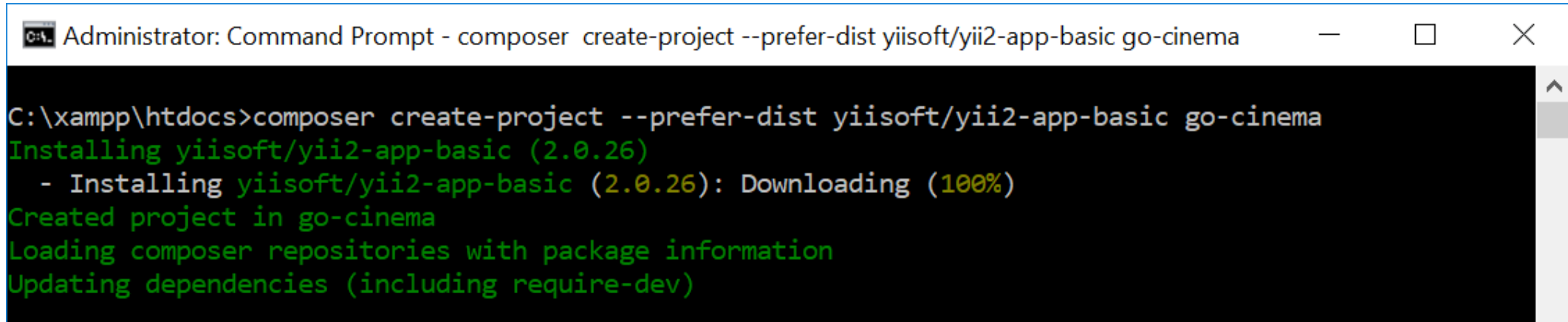
Install from an Archive File

<https://www.yiiframework.com/download>

Install via Composer (recommended)

`composer create-project --prefer-dist yiisoft/yii2-app-basic basic`

Ubah `basic` dengan nama folder aplikasimu, tambahkan parameter `-vvv` supaya detail progresnya terlihat

A screenshot of a Windows Command Prompt window titled "Administrator: Command Prompt - composer create-project --prefer-dist yiisoft/yii2-app-basic go-cinema". The window shows the execution of the command `composer create-project --prefer-dist yiisoft/yii2-app-basic go-cinema` from the directory `C:\xampp\htdocs>`. The output shows the installation of `yiisoft/yii2-app-basic (2.0.26)`, with a sub-step `- Installing yiisoft/yii2-app-basic (2.0.26): Downloading (100%)`. It then states `Created project in go-cinema`, `Loading composer repositories with package information`, and `Updating dependencies (including require-dev)`.

```
Administrator: Command Prompt - composer create-project --prefer-dist yiisoft/yii2-app-basic go-cinema
C:\xampp\htdocs>composer create-project --prefer-dist yiisoft/yii2-app-basic go-cinema
Installing yiisoft/yii2-app-basic (2.0.26)
  - Installing yiisoft/yii2-app-basic (2.0.26): Downloading (100%)
Created project in go-cinema
Loading composer repositories with package information
Updating dependencies (including require-dev)
```

Untuk template advanced, gunakan perintah berikut:

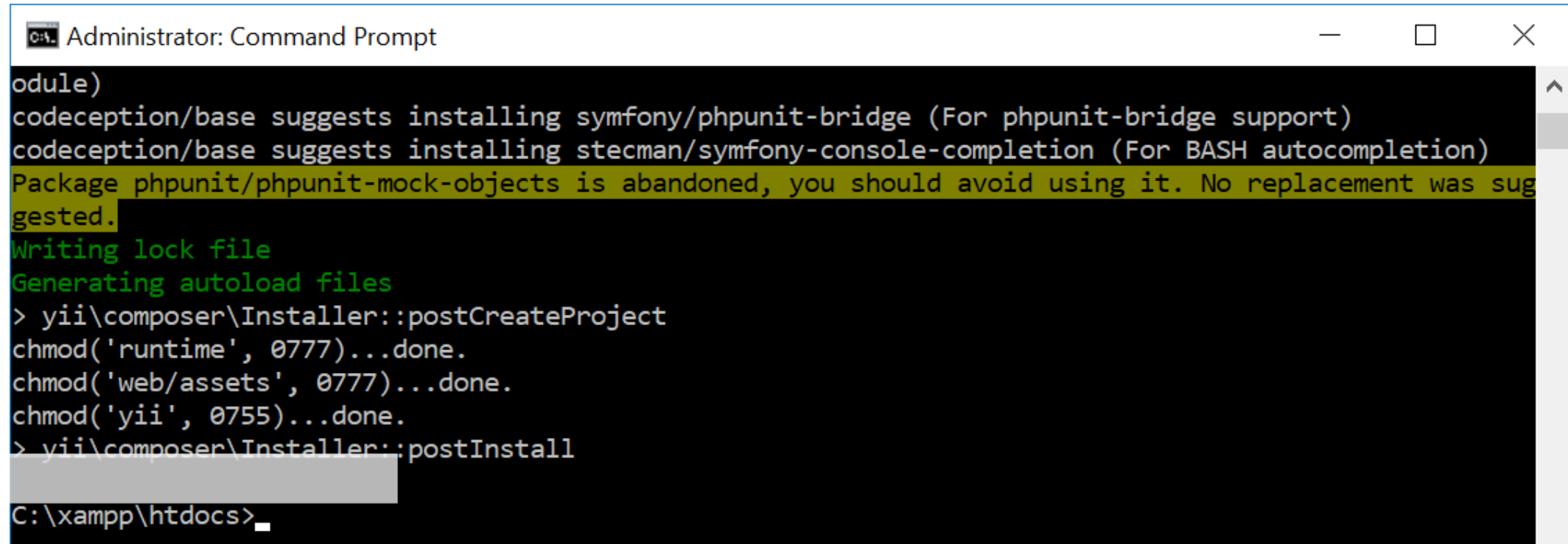
`composer create-project --prefer-dist yiisoft/yii2-app-advanced advanced`

Progress Install via Composer

```
Administrator: Command Prompt

C:\xampp\htdocs>composer create-project --prefer-dist yiisoft/yii2-app-basic go-cinema
Installing yiisoft/yii2-app-basic (2.0.26)
- Installing yiisoft/yii2-app-basic (2.0.26): Downloading (100%)
Created project in go-cinema
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 72 installs, 0 updates, 0 removals
- Installing yiisoft/yii2-composer (2.0.8): Downloading (100%)
- Installing codeception/verify (0.4.0): Downloading (100%)
- Installing myclabs/deep-copy (1.9.3): Downloading (100%)
- Installing codeception/specify (0.4.6): Downloading (100%)
- Installing bower-asset/jquery (3.4.1): Downloading (100%)
- Installing bower-asset/bootstrap (v3.4.1): Downloading (100%)
- Installing bower-asset/yii2-pjax (2.0.7.1): Downloading (100%)
- Installing bower-asset/punycode (v1.3.2): Downloading (100%)
- Installing bower-asset/inputmask (3.3.11): Downloading (100%)
- Installing cebe/markdown (1.2.1): Downloading (100%)
- Installing ezyang/htmlpurifier (v4.11.0): Downloading (100%)
- Installing yiisoft/yii2 (2.0.27): Downloading (100%)
- Installing yiisoft/yii2-bootstrap (2.0.10): Downloading (100%)
- Installing symfony/polyfill-php72 (v1.12.0): Downloading (100%)
- Installing symfony/polyfill-mbstring (v1.12.0): Downloading (100%)
```

Progress Install via Composer



```
C:\> Administrator: Command Prompt

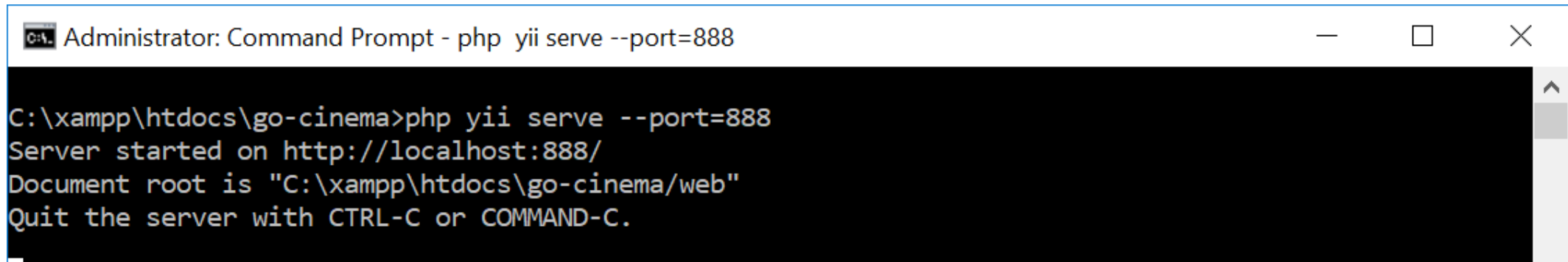
odule)
codeception/base suggests installing symfony/phpunit-bridge (For phpunit-bridge support)
codeception/base suggests installing stecman/symfony-console-completion (For BASH autocompletion)
Package phpunit/phpunit-mock-objects is abandoned, you should avoid using it. No replacement was suggested.
Writing lock file
Generating autoload files
> yii\composer\Installer::postCreateProject
chmod('runtime', 0777)...done.
chmod('web/assets', 0777)...done.
chmod('yii', 0755)...done.
> yii\composer\Installer::postInstall
C:\xampp\htdocs>
```

Install from an Archive File

1. Download <https://www.yiiframework.com/download>
2. Extract di htdocs atau web root
3. Modifikasi file config/web.php dengan memasukkan secret key untuk konfigurasi cookieValidationKey
4. Jika menggunakan advanced template, jalankan **php init**, untuk menentukan mode aplikasi (development atau production)

Verifikasi Hasil Instalasi

Jalankan `php yii serve --port=888` pada direktori proyek aplikasi.

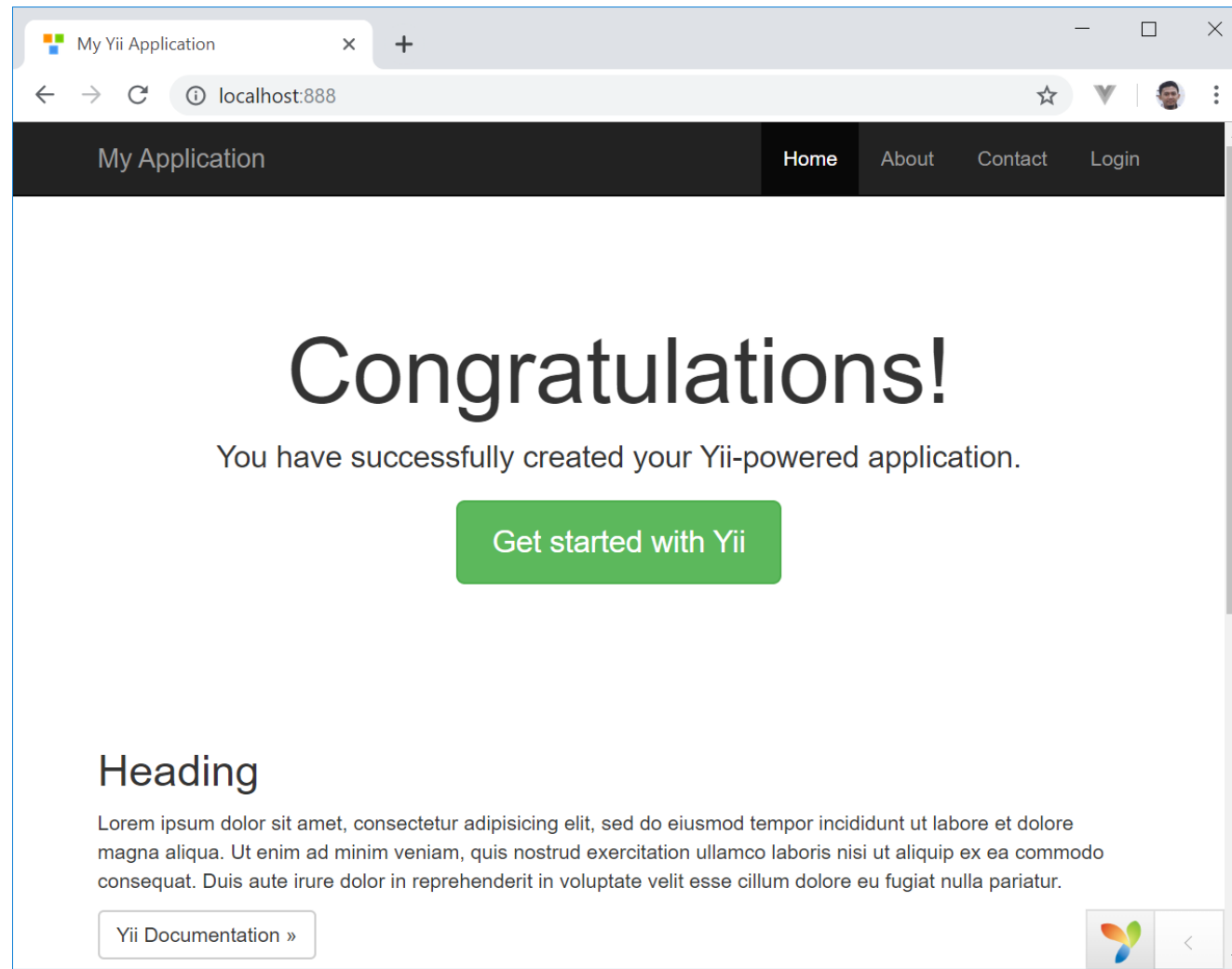


```
Administrator: Command Prompt - php yii serve --port=888

C:\xampp\htdocs\go-cinema>php yii serve --port=888
Server started on http://localhost:888/
Document root is "C:\xampp\htdocs\go-cinema/web"
Quit the server with CTRL-C or COMMAND-C.
```

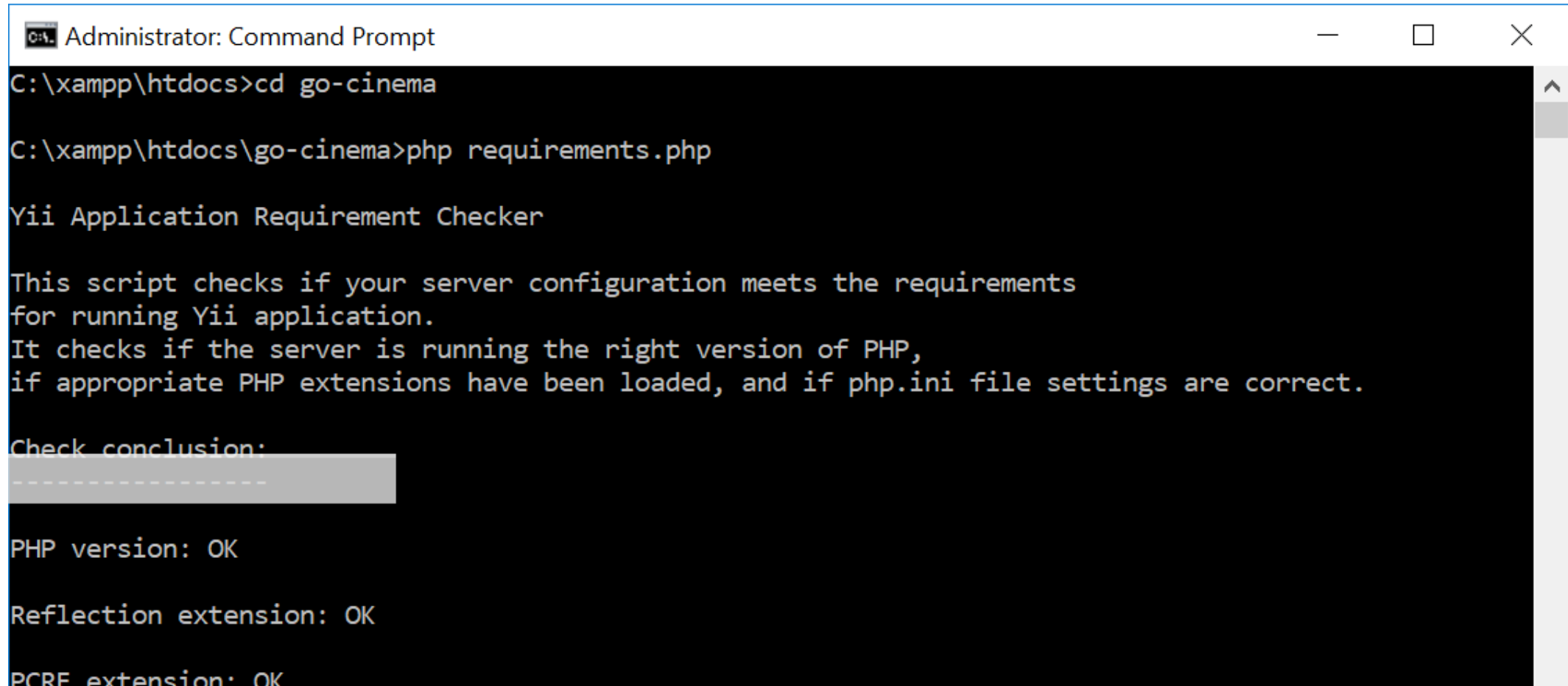

Verifikasi Hasil Instalasi

Via browser akses `http://localhost:888`



Verifikasi Kebutuhan Dasar Yii

Jalankan [php requirements.php](#) pada direktori proyek aplikasi



```
Administrator: Command Prompt
C:\xampp\htdocs>cd go-cinema
C:\xampp\htdocs\go-cinema>php requirements.php

Yii Application Requirement Checker

This script checks if your server configuration meets the requirements
for running Yii application.
It checks if the server is running the right version of PHP,
if appropriate PHP extensions have been loaded, and if php.ini file settings are correct.

Check conclusion:
-----

PHP version: OK

Reflection extension: OK

PCRE extension: OK
```

Verifikasi Kebutuhan Dasar Yii

```
Administrator: Command Prompt

ImageMagick PHP extension with PNG support: WARNING!!!
Required by: Captcha
Memo: Either GD PHP extension with FreeType support or ImageMagick PHP extension with PNG support
      required for image CAPTCHA.

Expose PHP: WARNING!!!
Required by: Security reasons
Memo: "expose_php" should be disabled at php.ini

PHP allow url include: OK

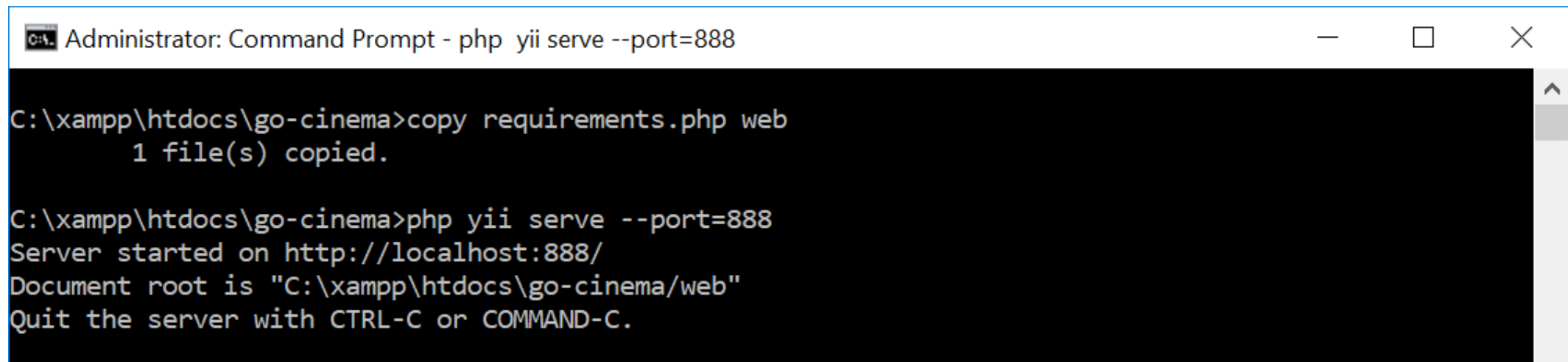
PHP mail SMTP: OK

-----
Errors: 0   Warnings: 7   Total checks: 23

C:\xampp\htdocs\go-cinema>
```

Verifikasi Kebutuhan Dasar Yii

- Bisa juga versi web, caranya copy file requirements.php ke folder web lalu jalankan yii serve



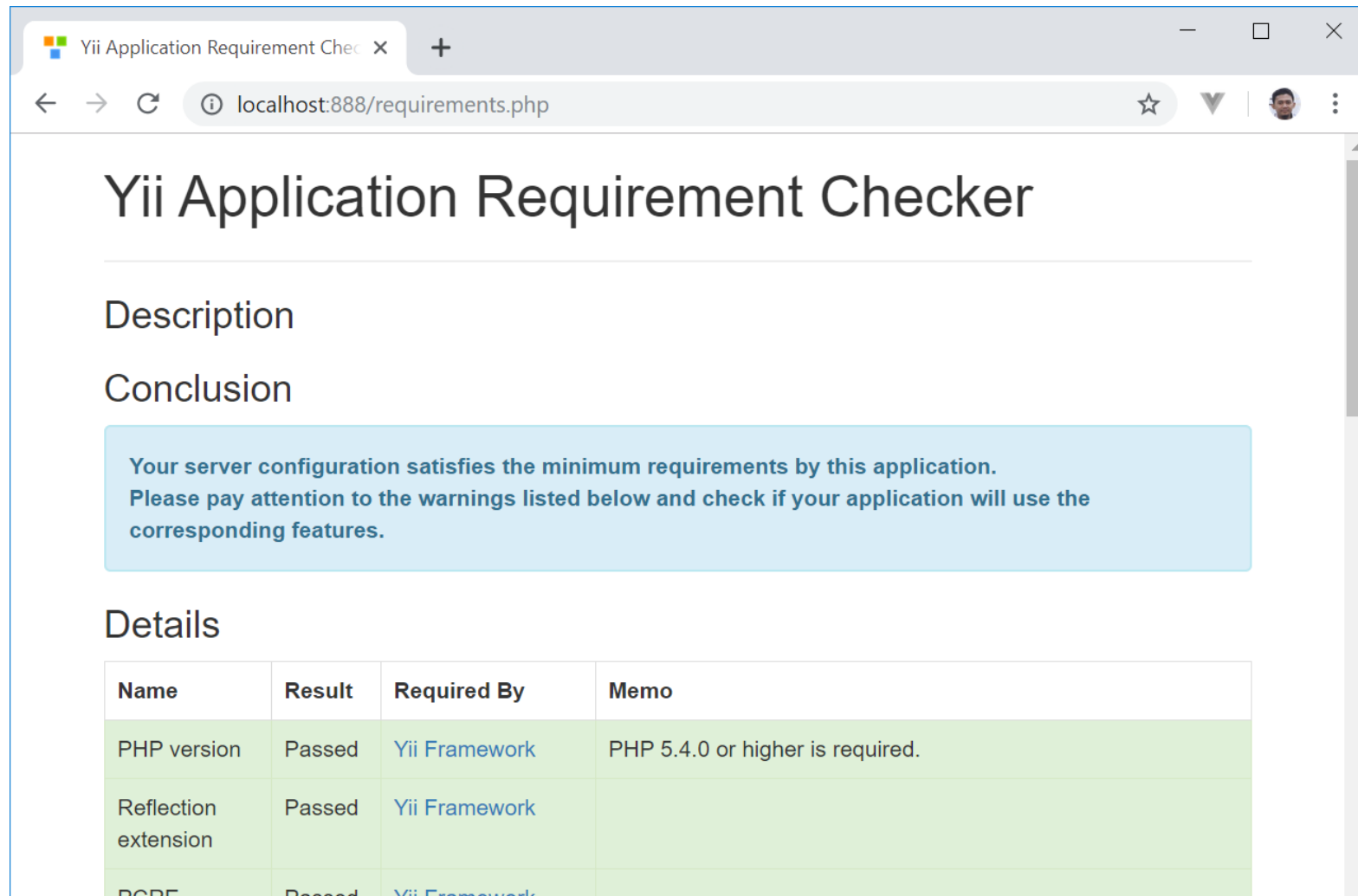
```
Administrator: Command Prompt - php yii serve --port=888

C:\xampp\htdocs\go-cinema>copy requirements.php web
1 file(s) copied.

C:\xampp\htdocs\go-cinema>php yii serve --port=888
Server started on http://localhost:888/
Document root is "C:\xampp\htdocs\go-cinema/web"
Quit the server with CTRL-C or COMMAND-C.
```

Verifikasi Kebutuhan Dasar Yii

Via browser akses <http://localhost:888/requirements.php>



The screenshot shows a web browser window with the title 'Yii Application Requirement Checker'. The address bar shows 'localhost:888/requirements.php'. The page content includes a title, a description, a conclusion, and a details table.

Yii Application Requirement Checker

Description

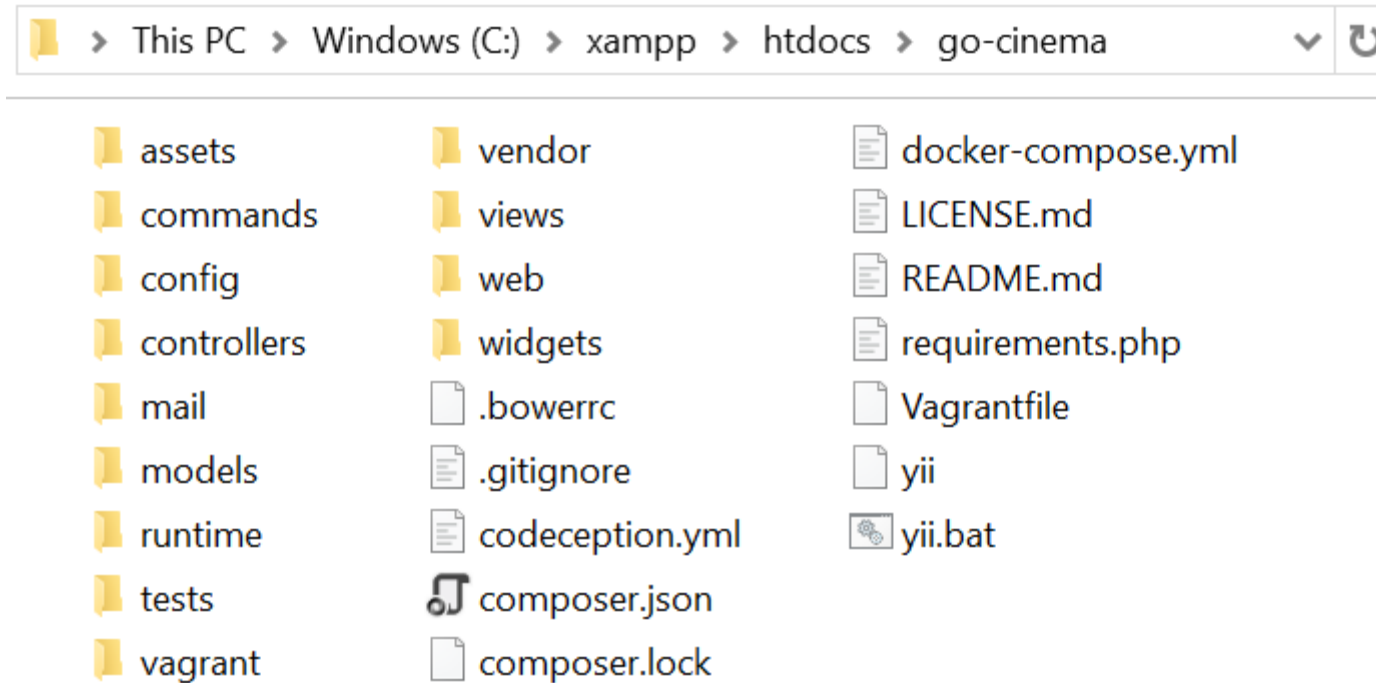
Conclusion

Your server configuration satisfies the minimum requirements by this application.
Please pay attention to the warnings listed below and check if your application will use the corresponding features.

Details

Name	Result	Required By	Memo
PHP version	Passed	Yii Framework	PHP 5.4.0 or higher is required.
Reflection extension	Passed	Yii Framework	
PCRE	Passed	Yii Framework	

Struktur Direktori Projek Yii



Struktur Direktori Proyek Yii

- assets = mendefinisikan file asset (css, js) yang digunakan
- config = mendefinisikan konfigurasi dari aplikasi
 - web.php = file konfigurasi aplikasi
 - db.php = file konfigurasi database
- controllers = berisi file-file controller
- models = berisi file-file model
- views = berisi file-file view
- web = folder mount point aplikasi Yii
 - index.php = file default yang pertama kali diakses
 - assets/ = folder yang berisi file asset (css, js, fonts dll)

Struktur Direktori Proyek Yii

- commands = berisi file untuk membuat kode-kode yang dapat diakses melalui console / CMD
- mail = berisi template email
- runtime = berisi file-file temporary dan cache yang degenerate ketika aplikasi dijalankan
- test = berisi file-file untuk testing automation
- vagrant = berisi file-file terkait vagrant (tools virtual machine)
- vendor = berisi file-file library yang kita gunakan pada proyek (termasuk Yii)
- widgets = berisi file-file widget aplikasi kita

Konfigurasi Yii

Konfigurasi Yii

- Kustomisasi Local Domain
- Pretty URL
- Konfigurasi Database

Kustomisasi Local Domain

Aplikasi Yii sudah dapat diakses dengan menggunakan PHP built-in web server dengan perintah `yii serve`, dengan URL <http://localhost:888> atau jika menggunakan xampp maka alamat URLnya <http://localhost/go-cinema/web>

Nah pada bagian ini untuk kebutuhan pengembangan (development) kita akan melakukan kustomisasi local domain (URL) menjadi misalnya <http://go-cinema.test>

Hal ini bisa kita lakukan melalui pengaturan virtual host pada web server

Kustomisasi Local Domain

Edit file C:\xampp\apache\conf\extra\httpd-vhosts.conf

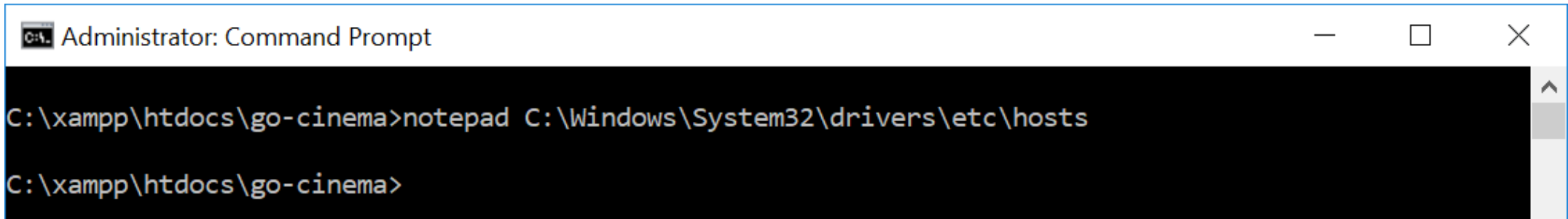
```
<VirtualHost *:80>  
    DocumentRoot "C:/xampp/htdocs/go-cinema/web"  
    ServerName go-cinema.test  
</VirtualHost>
```

Kemudian restart web server apache

Lalu pada file hosts, tambahkan 127.0.0.1 go-cinema.test

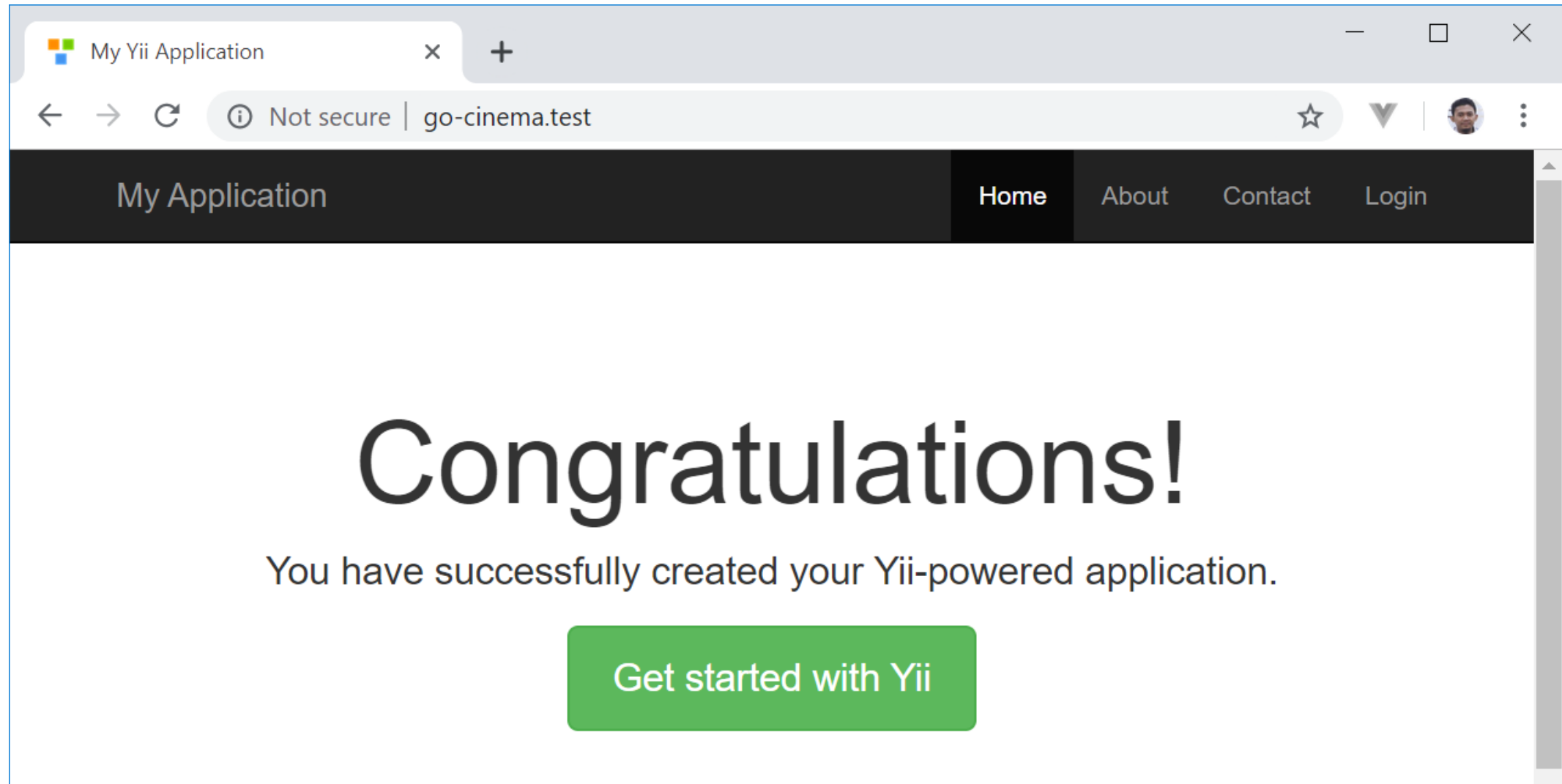
Untuk membuka file host, jalankan perintah berikut:

notepad C:\Windows\System32\drivers\etc\hosts



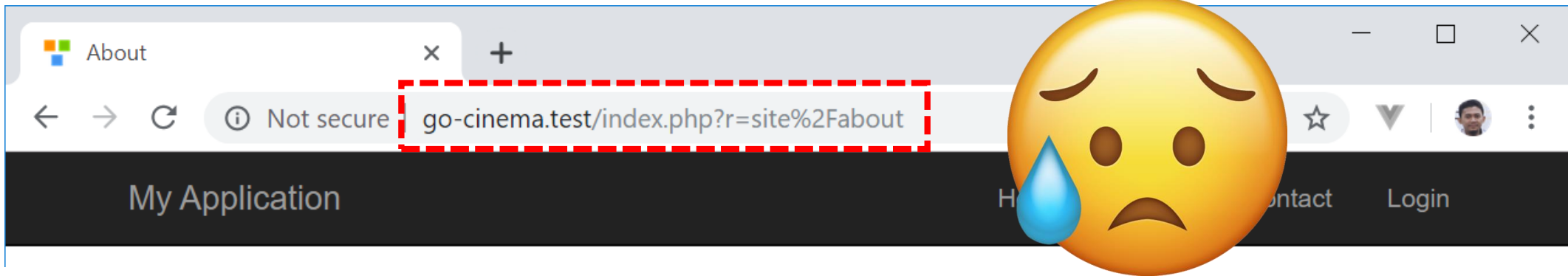
```
Administrator: Command Prompt  
C:\xampp\htdocs\go-cinema>notepad C:\Windows\System32\drivers\etc\hosts  
C:\xampp\htdocs\go-cinema>
```

Kustomisasi Local Domain



Pretty URL

Jika kita perhatikan URL Aplikasi Yii sebagai berikut:



Nah kita bisa mempercantiknya melalui konfigurasi pada file config/web.php

Pretty URL

Uncomment code file config/web.php berikut

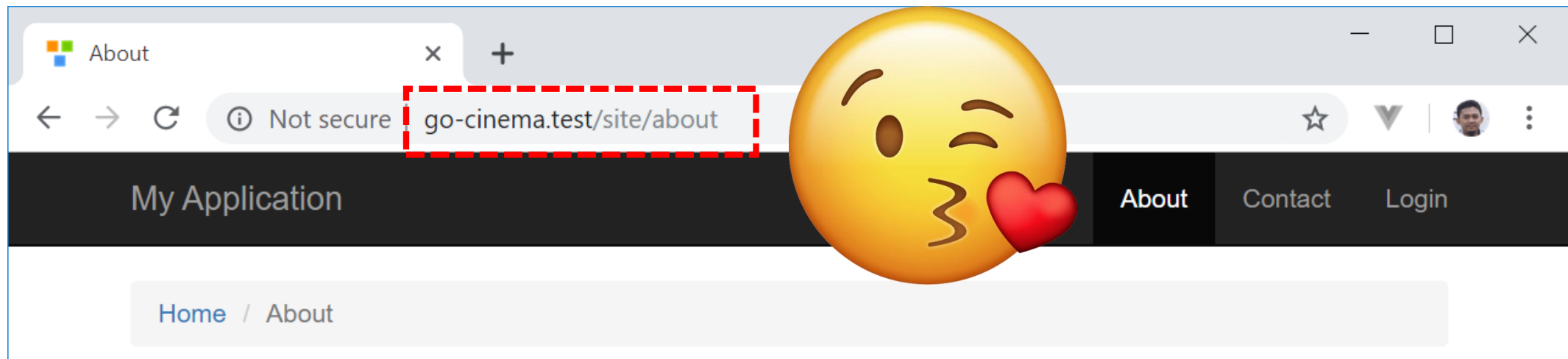
```
45     'db' => $db,  
46     /*  
47     'urlManager' => [  
48         'enablePrettyUrl' => true,  
49         'showScriptName' => false,  
50         'rules' => [  
51         ],  
52     ],  
53     */  
54 ],
```



```
45     'db' => $db,  
46     'urlManager' => [  
47         'enablePrettyUrl' => true,  
48         'showScriptName' => false,  
49         'rules' => [  
50         ],  
51     ],  
52 ],
```

Pretty URL

Lihat hasilnya



Konfigurasi Database

Edit file config/db.php

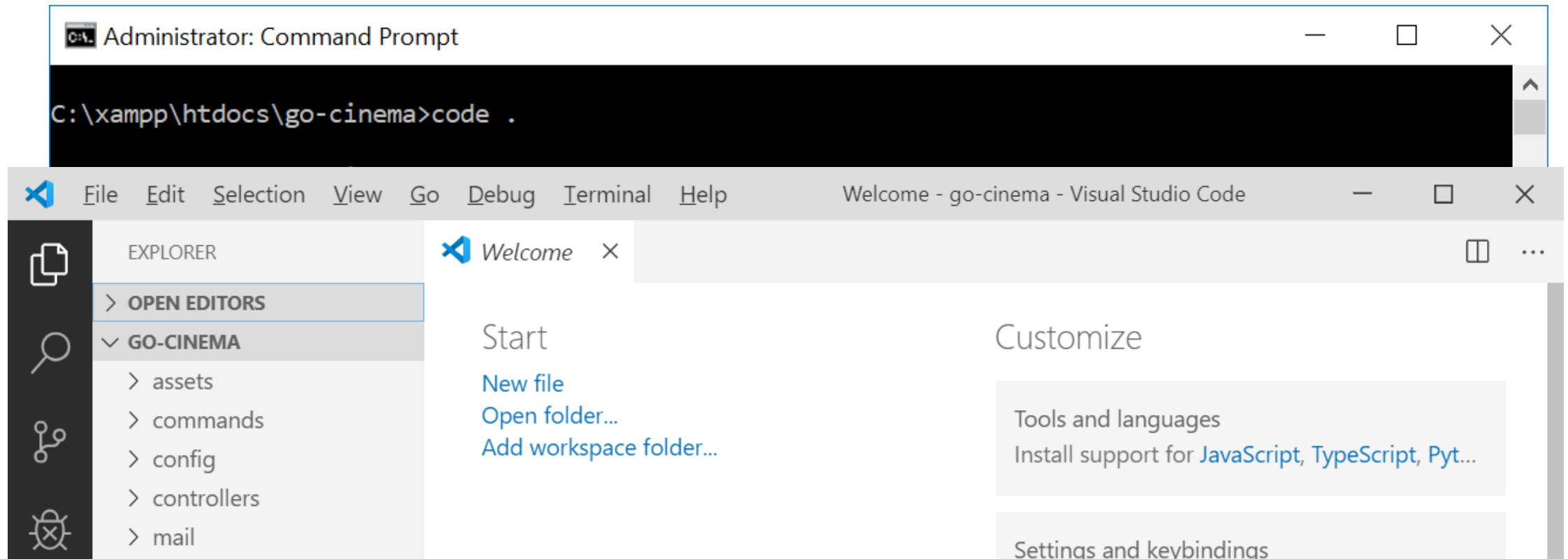
```
<?php

return [
    'class' => 'yii\db\Connection',
    'dsn' => 'mysql:host=localhost;dbname=go-cinemadb',
    'username' => 'root',
    'password' => '',
    'charset' => 'utf8',

    // Schema cache options (for production environment)
    //'enableSchemaCache' => true,
    //'schemaCacheDuration' => 60,
    //'schemaCache' => 'cache',
];
```

Setup Code Editor

Pada direktori proyek aplikasi jalankan `code .` lalu tekan enter, maka VsCode akan terbuka dengan folder proyek Yii



Terima Kasih