

# Apache - 웹페이지

2021963057 장문용  
2021863058 장현호  
2021963052 이재협  
2020875029 신성우

코드 커뮤니티 : 아팻찌

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Composer



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프로젝트 연동

# /

## 1. 제작 정보

# PPT 목표



누구나 쉽게 따라 하며 서버를 구축할 수 있도록,  
간단하고 직관적인 구성으로 제작하였습니다.

# 코드 커뮤니티 : 아팻찌

코딩 학습 중 마주하는 다양한 궁금증을  
신속히 해결하고, 작성한 코드가 다른  
개발자에게도 도움이 되도록 지원하기 위해  
제작되었습니다.

누구나 자유롭게 코드를 업로드하고  
서로의 의견을 활발하게 교류할 수 있는  
커뮤니티 환경을 목표로 제작하였습니다.

# 제작 : 프레임워크

## \*리액트

사용자 인터페이스를  
만들기 위한  
자바스크립트  
라이브러리

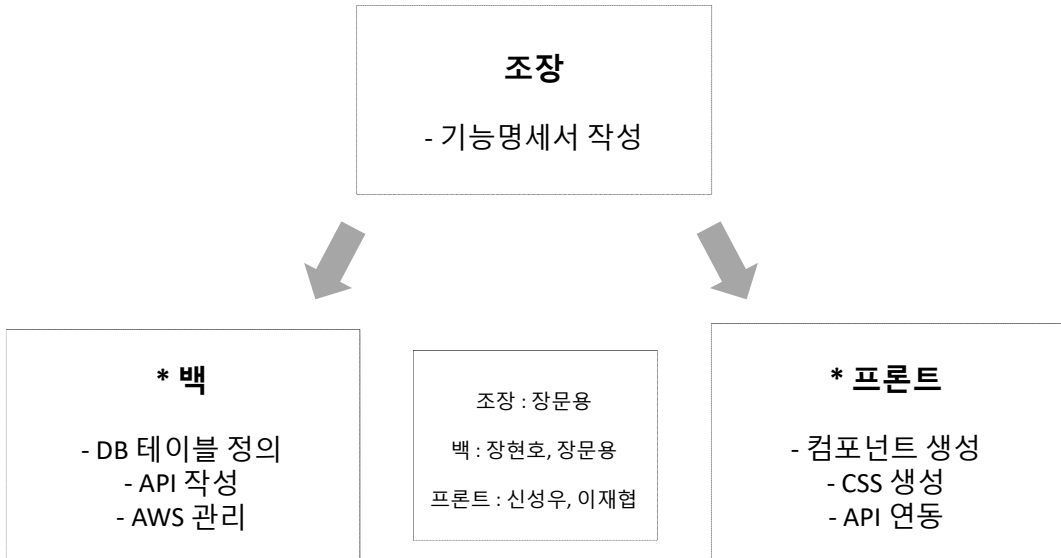
## \*아파치

클라이언트의 HTTP  
요청을 처리하여 웹  
페이지를 제공

## \*라라벨

깔끔하고 표현력 있는  
문법을 가진 PHP 기반 웹  
애플리케이션 프레임워크

# 제작:역할분담



# 1. Apache 설치



# Apache 설치 : 다운로드

The screenshot shows the Apache Lounge website. The left sidebar contains a navigation menu with the following items: About, Forum Index, Downloads (highlighted with a red box), Search, Register, Log in, RSS, and X. Below the menu is a section for '도움말' (Help) with links to 'Apache Lounge' and 'Apache Lounge'.


The main content area features a search bar and a description of Apache Lounge. Below this, there is a section titled 'Please help fellow Apacherians and share your knowledge. Thanks!' followed by a 'Forum Index' table.

	Posts	Last Post
<b>News &amp; Hangout</b> News and announcements and for anything else which doesn't fit in the forums below. Site feedback, random talk, whatever, are welcome. General chat about anything that goes, a good place to introduce yourself and say hi, tell a Joke, or just relax.	1972	Wed 02 Apr '25 9:50 K Staffen
<b>Apache</b> Need help or have questions about the Apache Server? Put them here, no question too simple! And please help fellow Apacherians. Here goes 2.2 as well as 2.4. For building, see below.	22253	Tue 22 Apr '25 21:48 K tangent
<b>Third-party Modules</b> This is the place to discuss third-party modules like mod_security, mod_jk etc.	4356	Thu 24 Apr '25 10:17 K Otomatic
<b>Other Software</b> Discuss installation and issues with other software, like Perl, Php, MySQL, Tomcat etc. For example, installing PHP under Apache goes here as well as installing a CMS like Joomla, Wordpress, a Forum like phpBB etc. For programming/coding see forum below.	5948	Tue 18 Mar '25 9:38 K Otomatic
<b>Coding &amp; Scripting Corner</b> Forum for discussing coding in Perl, PHP, HTML, JavaScript, Ajax etc. Also when you made use a script you want to share, post it here.	1194	Wed 01 Jan '25 6:21 K Bray78
<b>How-to's &amp; Documentation &amp; Tips</b> Do not hesitate to post your knowledge! Do not post issues here.	572	Tue 08 Apr '25 20:29 K tangent
<b>Building &amp; Member Downloads</b> This is the place to discuss about writing, compiling, debugging, testing and experimenting with the Apache and Modules source code. Building other software like php goes here too. Also Apache and Modules builds for you to download from Apache Lounge members goes here.	3953	Mon 30 Dec '24 10:30 K nosk124
<b>Webmaster Tools &amp; Utilities</b> Discuss webmaster tools and utilities, like Statistics, Monitoring, Logfile Analyzers, Admin Gu's etc. When you have/know/made a tool, please let us know here.	336	Sun 23 Mar '25 16:28 K noma303
<b>Hardware &amp; Networking</b> This is the place to discuss Hardware and Network related.	663	Tue 26 Nov '24 12:45 K James Blong

Apache Lounge를 검색하여  
홈페이지에 접속

Download 클릭

# Apache 설치 : 다운로드



## Apache Lounge

Webmasters

### Apache 2.4 VS17 Windows Binaries and Modules

Apache Lounge has provided up-to-date Windows binaries and popular third-party modules for more than 15 years. We have hundreds of thousands of satisfied users: small and big companies as well as home users. Always build with up to date dependencies and latest compilers, and tested through. The binaries are referenced by the ASF, Microsoft, PHP etc. and more and more software is packaged with our binaries and modules.

The binaries, are build with the sources from ASF at <http://httpd.apache.org>, contains the latest patches and latest dependencies like zlib, openssl etc. which makes the downloads here mostly more actual then downloads from other places. The binaries **do not run** on XP and 2003. Runs on: 7 SP1, Vista SP2, 8/8.1, 10, 11 Server 2008 SP2 / R2 SP1, Server 2012 / R2, Server 2016/2019/2022.

Build with the latest Windows Visual Studio C++ 2022 aka VS17. Has improvements, fixes and optimizations over VS16 in areas like Performance, MemoryManagement, New standard conformance features, Code generation and Stability. For example code quality tuning and improvements done across different code generation areas for "speed". And makes more use of latest processors and supported Windows editions (win7 and up) internal features.

**VS17 is backward compatible**, That means, a VS16/VS14 module can be used inside the VS17 binary.

Be sure you installed latest 14.42.34438.0 Visual C++ Redistributable Visual Studio 2015-2022 : [vc\\_redist\\_x64](#) or [vc\\_redist\\_x86](#) see [Redistributable](#)

### Apache 2.4 binaries VS17

[Info & Changelog](#)


#### Apache 2.4.63-250207 Win64

<http://2.4.63-250207-win64-vs17.zip> 07 Feb '25 11:723K  
[PGP Signature \(Public PGP key\)](#), [SHA1-SHA512 Checksums](#)

#### Apache 2.4.63-250207 Win32

<http://2.4.63-250207-win32-vs17.zip> 07 Feb '25 10:549K  
[PGP Signature \(Public PGP key\)](#), [SHA1-SHA512 Checksums](#)

To be sure that a download is intact and has not been tampered with, use PGP, see [PGP Signature](#)



이 게임은 중독성이 강합니다 - 지금 바로 체험해 보세요!

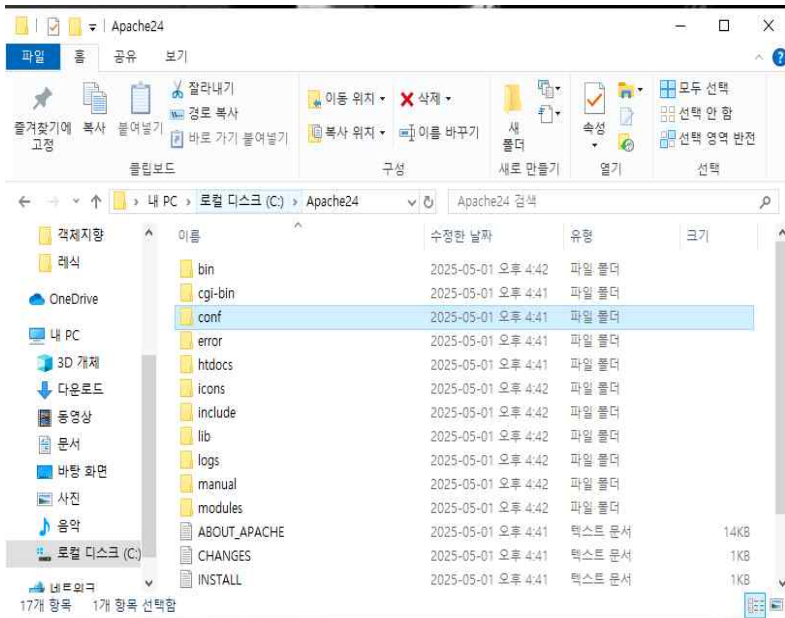
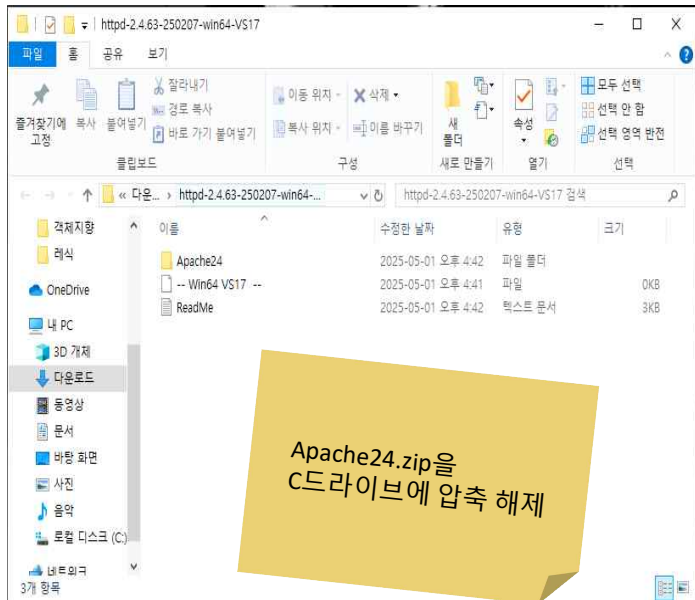
Sponsored by: Taonga Farm

[PLAY NOW](#)

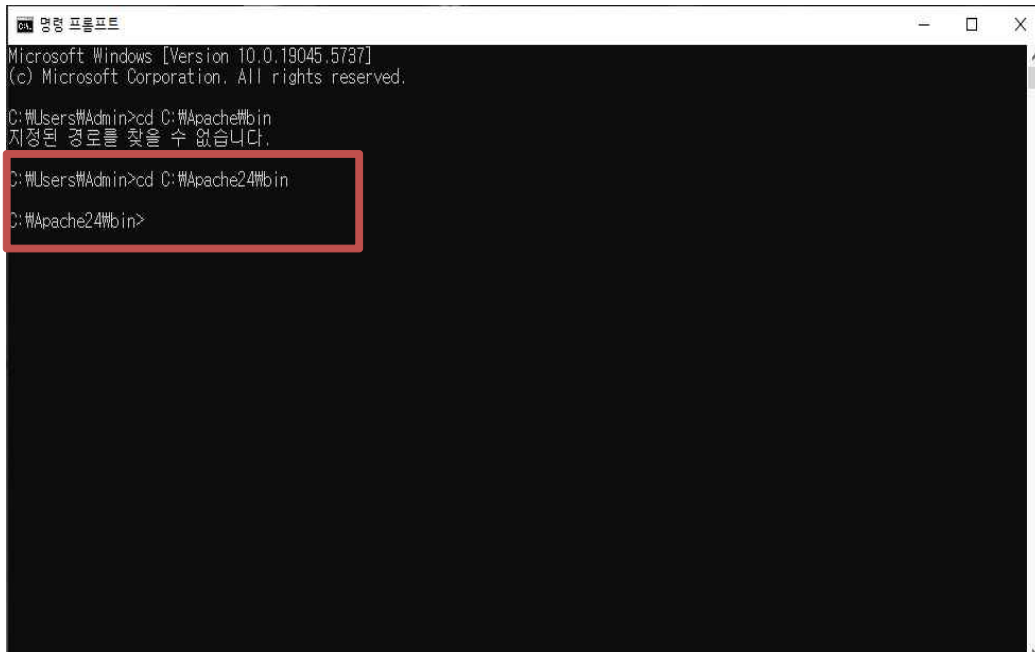
Mail for the PGP signatures and/or SHA checksums to verify the contents of a file.

사용자의 컴퓨터에 맞는 버전의 Apache를 다운로드 후 압축을 해제한다.

# Apache 설치 : 압축해제



# Apache 윈도우 서비스 등록



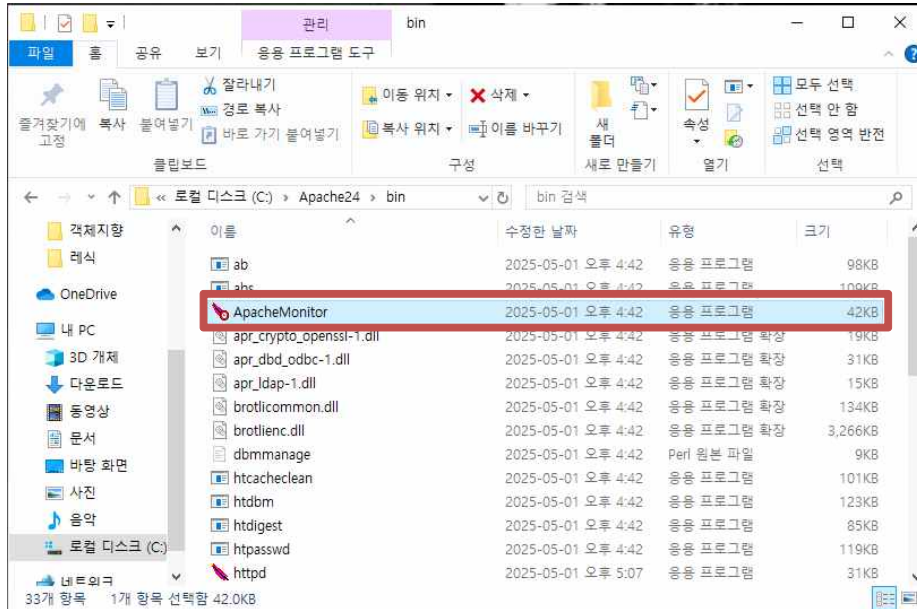
```
명령 프롬프트
Microsoft Windows [Version 10.0.19045.5737]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd C:\Apache\bin
지정된 경로를 찾을 수 없습니다.

C:\Users\Admin>cd C:\Apache24\bin
C:\Apache24\bin>
```

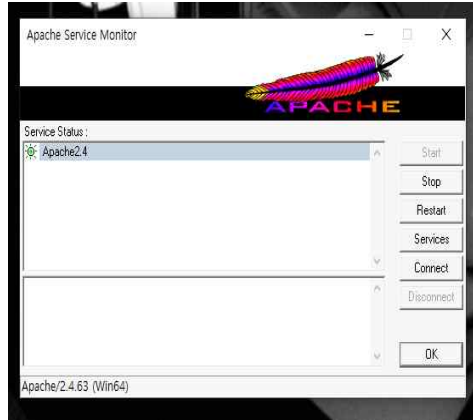
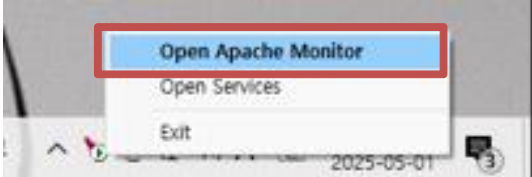
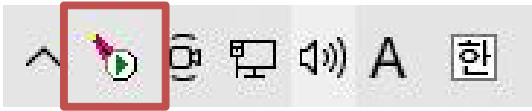
관리자 권한으로 cmd 실행  
"cd C:\Apache24\bin"  
"httpd.exe -k install" 입력

# Apache 설치 : 모니터 실행



c:\Apache24\bin 폴더로 가서  
ApacheMonitor.exe 를 실행

# Apache 설치 : 모니터 실행



Monitor 실행 후 Start 클릭

# Apache 설치 : 확인



**It works!**

http://localhost/ 또는  
http://localhost/ 으로  
접속하면 "It works!" 가 화면에  
출력되며 서버가 작동

## 2. PHP 설치



# PHP 설치 1

**PHP For Windows**  
This site is dedicated to supporting PHP on Microsoft Windows. It also supports ports of PHP extensions or features as well as providing special builds for the various Windows architectures.  
If you like to build your own PHP binaries, instructions can be found on the [Wiki](#).

**PECL For Windows**  
[PECL extensions](#) for Windows is being worked on. Windows DLL can be downloaded right from the [PECL website](#).

**Which version do I choose?**

**IIS**  
If you are using PHP as FastCGI with IIS you should use the Non-Thread Safe (NTS) versions of PHP.

**Apache**  
Please use the Apache builds provided by [apache@php.net](#). They provide VC15 and VS16 builds of Apache for x86 and x64. We use their binaries to build the Apache SAPIs.  
With Apache, using the apache2handler SAPI, you have to use the Thread Safe (TS) versions of PHP.

**VS16 & VS17**  
More recent versions of PHP are built with VS16 or VS17 (Visual Studio 2019 or 2022 compiler respectively) and include improvements in performance and stability.  
- The VS16 and VS17 builds require to have the Visual C++ Redistributable for Visual Studio 2015-2022 [x64](#) or [x86](#) installed.

**TS and NTS**  
TS refers to multithreaded executable builds. NTS refers to single-threaded executable builds.

**PHP 8.4 builds use Visual Studio 2022**  
04 Jul 2024  
While previous minor versions of PHP 8 have been built with Visual Studio 2019 (aka. VS16), it is time to use Visual Studio 2022 (aka. VS17) for the PHP 8.4 builds. To use these builds, you may need to install or update the Visual C++ Redistributable for Visual Studio 2015-2022 [x64](#) or [x86](#).

**PECL DLLs are Back!**  
07 Jun 2024  
Windows DLLs for most PECL extensions are back! We have been working on an alternative way through GitHub Actions to automate the builds of these extensions, which means PECL DLLs are now available on the respective package's download page again.  
The next step is automating these builds so that extension authors can include steps in their release actions as well.

**Missing PECL DLLs**  
17 Oct 2022  
You may have already noticed that DLLs for new PECL releases are no longer available for several months. This is because the Windows PECL build machine died, and the team is still working on the long term plan of building DLLs for PECL extensions with a new CI process. We're doing our best to finish that as soon as possible, and keep you up to date.

**PECL DLLs for PHP 8.1**  
02 Dec 2021  
A week ago [PHP 8.1.0 has been released](#) and you may be eager to try it out, but you need one or more PECL packages for which there are no PHP 8.1 binary packages available yet, and you may wonder when these will be made available. Well, the PHP for Windows team does not want to provide possibly premature binary packages, so as usual, we will wait until late January or early February to trigger the mass build for all applicable PECL packages; that is, after PHP 8.1.2 has been released, what is currently scheduled for January, 20th. After the builds have been done, you can download the binary packages from [pecl.php.net](#) as usual.  
Waiting for two months is no option for you? In that case you can download [snapshot builds](#) of some of the PECL packages. If there is no snapshot for your package available, consider to [contact the team](#) and to request that a snapshot for that package is being build. Note though, that these snapshot builds are not recommended for production. However, testing these and reporting issues is very welcome!

**Where are the PECL DLLs?**  
11 Oct 2021  
You may have noticed already that Windows DLLs are no longer available on [PECL](#). Since the PHP for Windows team has no access to that machine to debug the problem, the best we could do is to file a [respective bug report](#), and to hope that it

"php windows" 검색 → 공식  
홈페이지 접속 → Download

# PHP 설치 2

PHP 7.4.1 supports long and short options. See the [manual](#) for details.

## Archives

Past releases are available from our [archives](#), older versions not found there can be found at the [Museum](#).

### PHP 8.3 (8.3.21)

[Download source code](#) [27.41MB]

[Download tests package \(.phpt\)](#) [16.61MB]

#### VS16 x64 Non Thread Safe (2025-May-06 16:16:22)

- [Zip](#) [30.7MB]  
 sha256: 7ff517c5945fe50bd41b69a8365678ebde5dcf56e85ac422fb5669b6c7d5a9ce
- [Debug Pack](#) [30.34MB]  
 sha256: 08e3cd907f3c9fc211484931c3b9b99112ae8b2e2a99560e97f94b14b3238b00
- [Development package \(SDK to develop PHP extensions\)](#) [1.26MB]  
 sha256: 7c9e4e2dcf437a4dd959aea0249a0ab0a36f3c9b6324d5a0e49b933b4c580c5

#### VS16 x64 Thread Safe (2025-May-06 16:15:28)

- [Zip](#) [30.84MB]  
 sha256: beac2027a60a76728e7db9752abc13545fe3ff5226dd887d9bae489d8b72aa46
- [Debug Pack](#) [30.29MB]  
 sha256: 92fb33a4eb607f1aab41a45c5763772c805685fdc4528764d2afa949e15c10da
- [Development package \(SDK to develop PHP extensions\)](#) [1.26MB]  
 sha256: 0551d636a2579bc1fe280700fe4bcc8c42933f6d2759640e19e17704b1d7ab27

#### VS16 x86 Non Thread Safe (2025-May-06 16:14:38)

- [Zip](#) [27.57MB]  
 sha256: e87140e523164b9d8d483fbd0e82ef5056cf5cf22bcd87d78f9d76f8b3664d63
- [Debug Pack](#) [30.25MB]  
 sha256: f344aacb62afc0ffe9c604309f2817404d6263dd728fc45f7cf349ce900bb10
- [Development package \(SDK to develop PHP extensions\)](#) [1.26MB]  
 sha256: bd6cfb01744bc62e6e351c2dd4dde28f5f4800b1971600432d07caa6911a1ce0

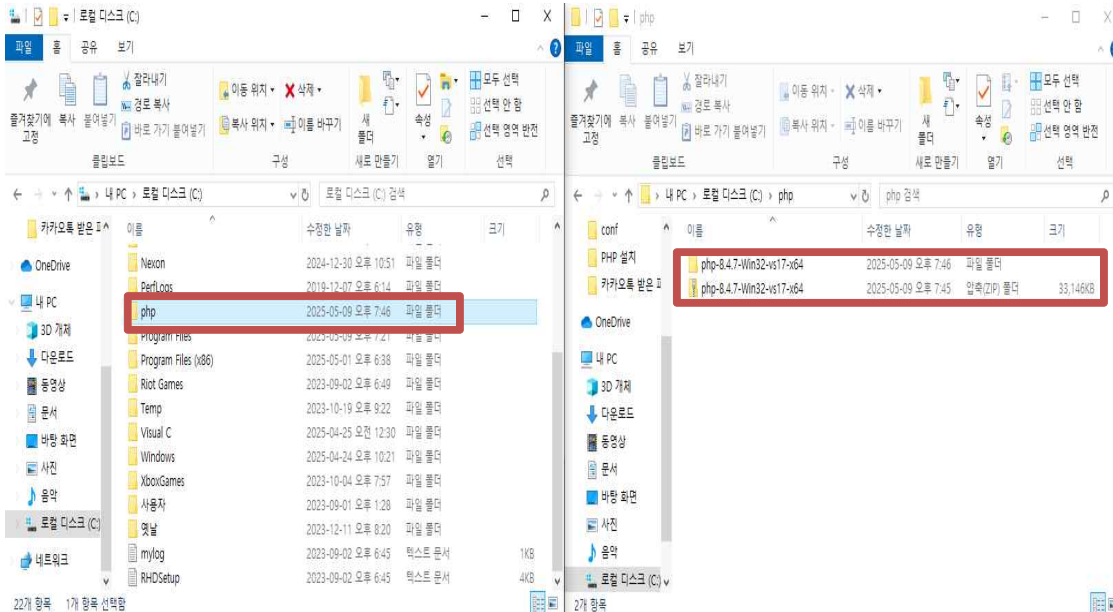
Thread Safe 버전 중 사용자의 시스템에 맞는 .zip 파일 다운로드하기

\* 정식 버전을 사용하기 위해 8.3 다운로드

### 정리하자면:

PHP 버전	설명
PHP 8.3	✓ 정식 버전 (안정) — 사용 가능
PHP 8.4	✗ 아직 정식 출시 전 — 테스트 중 or 개발 중
PHP 8.4.7	✗ 아예 없는 버전 — 비공식 빌드거나 가짜 버전일 가능성 큼

# PHP 설치 3



1. C:\php 폴더 생성
2. 해당 폴더 안에서 압축해제

## 3. Composer 설치

# Composer 설치 1



A Dependency Manager for PHP

Latest: 2.8.8 ([changelog](#))

[Getting Started](#)

[Download](#)

[Documentation](#)

[Browse Packages](#)

[Issues](#)

[GitHub](#)

Authors: [Nils Adermann](#), [Jordi Boggiano](#) and many [community contributions](#)

Sponsored by:



Logo by: Max Grigorian

[Home](#) | [Getting Started](#) | [Download](#) | [Documentation](#) | [Browse Packages](#)

Download Composer Latest: v2.8.8

## Windows Installer

The installer - which requires that you have PHP already installed - will download Composer for you and set up your PATH environment variable so you can simply call `composer` from any directory.

Download and run [Composer-Setup.exe](#) - it will install the latest composer version whenever it is executed.

## Command-line installation

To quickly install Composer in the current directory, run the following script in your terminal. To automate the installation, use [the guide on installing Composer programmatically](#).

```
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"
php -r "if (hash_file('sha384', 'composer-setup.php') === 'dac665fdc30fdd8ec78b38b9800061b4150413ff2e3b6f88543c636f7cd84f6
php composer-setup.php
php -r "unlink('composer-setup.php');"
```

This installer script will simply check some `php.ini` settings, warn you if they are set incorrectly, and then download the latest `composer.phar` in the current directory. The 4 lines above will, in order:

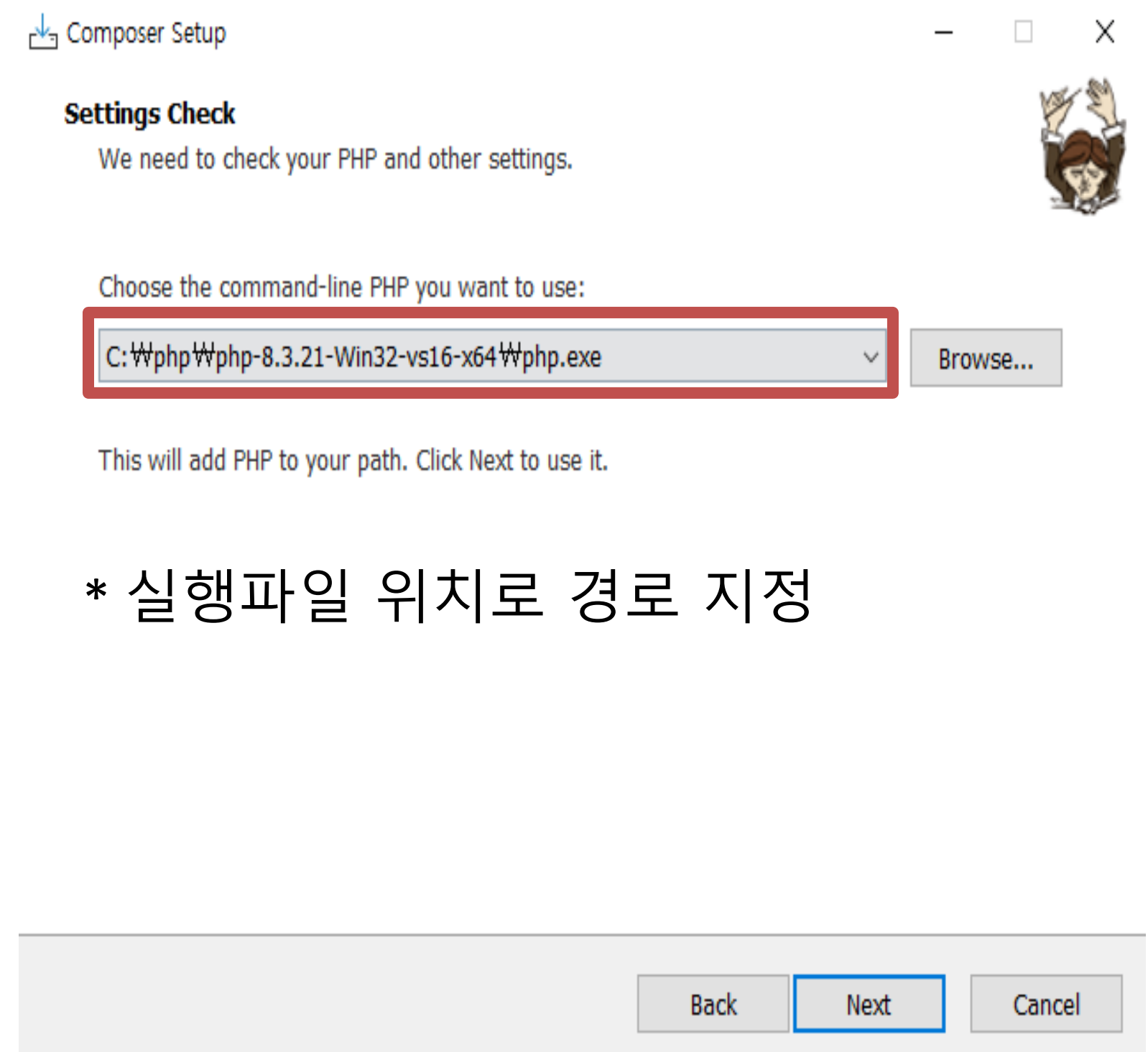
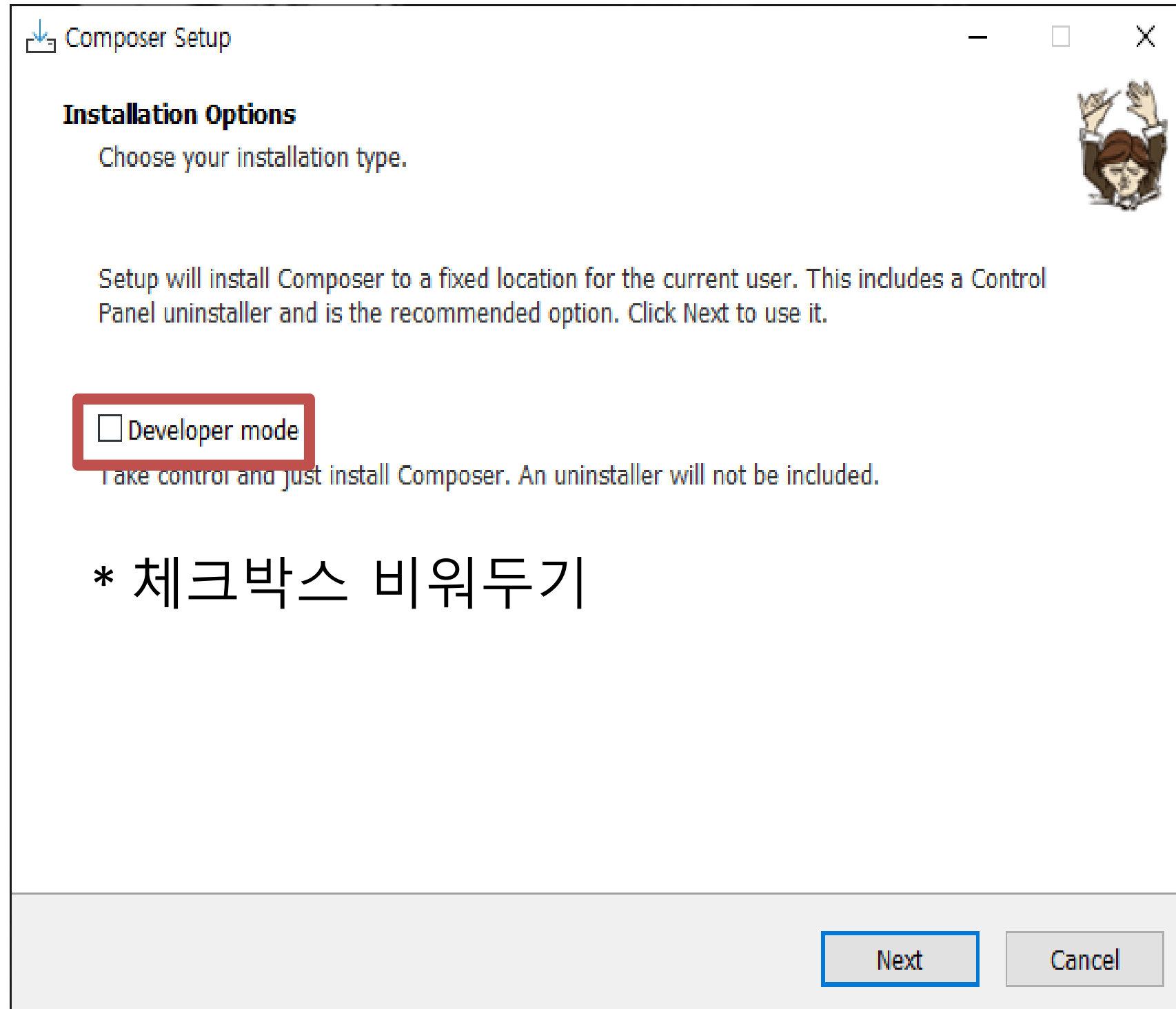
- Download the installer to the current directory
- Verify the installer SHA-384, which you can also [cross-check here](#)
- Run the installer
- Remove the installer

Most likely, you want to put the `composer.phar` into a directory on your PATH, so you can simply call `composer` from any directory (*Global install*), using for example:

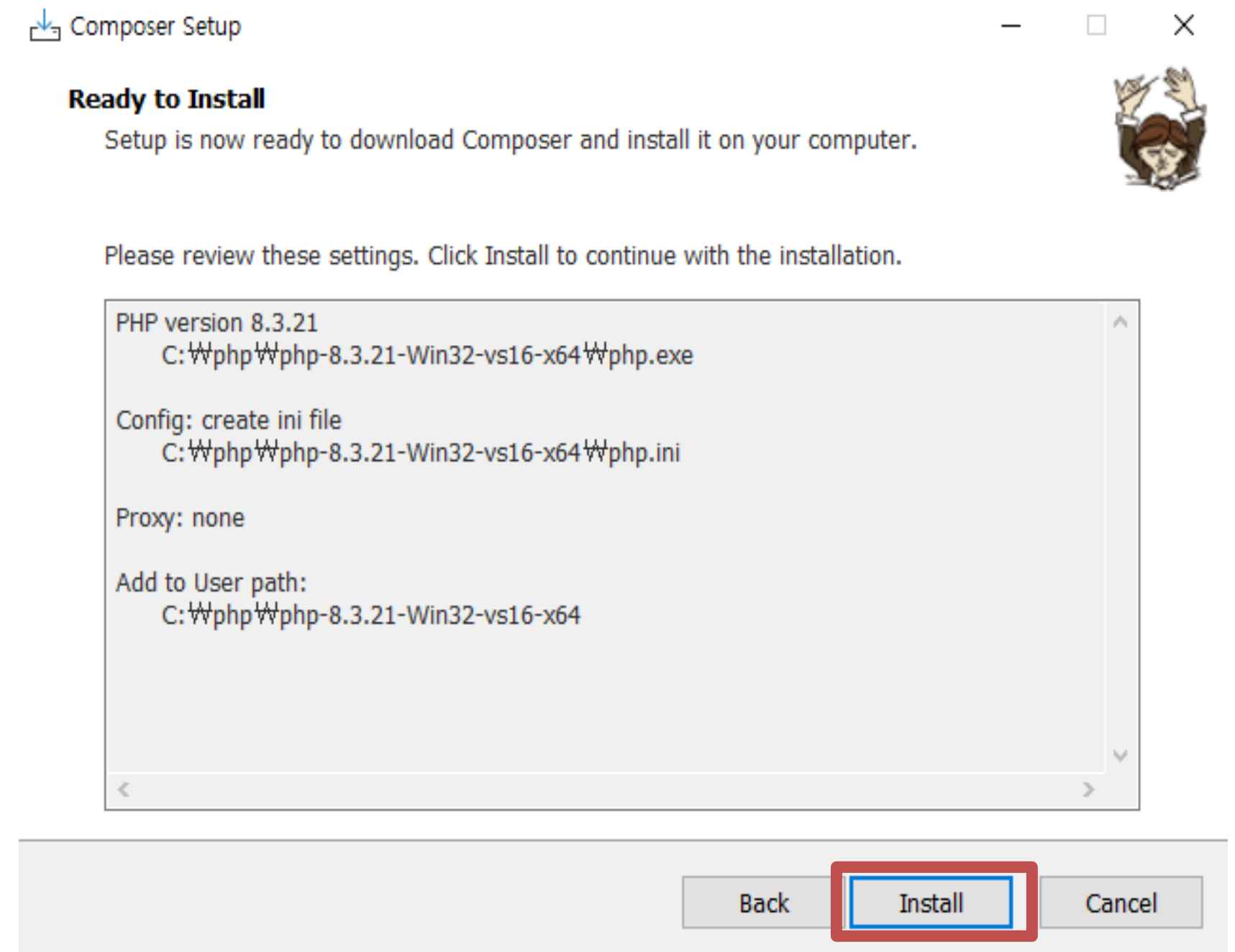
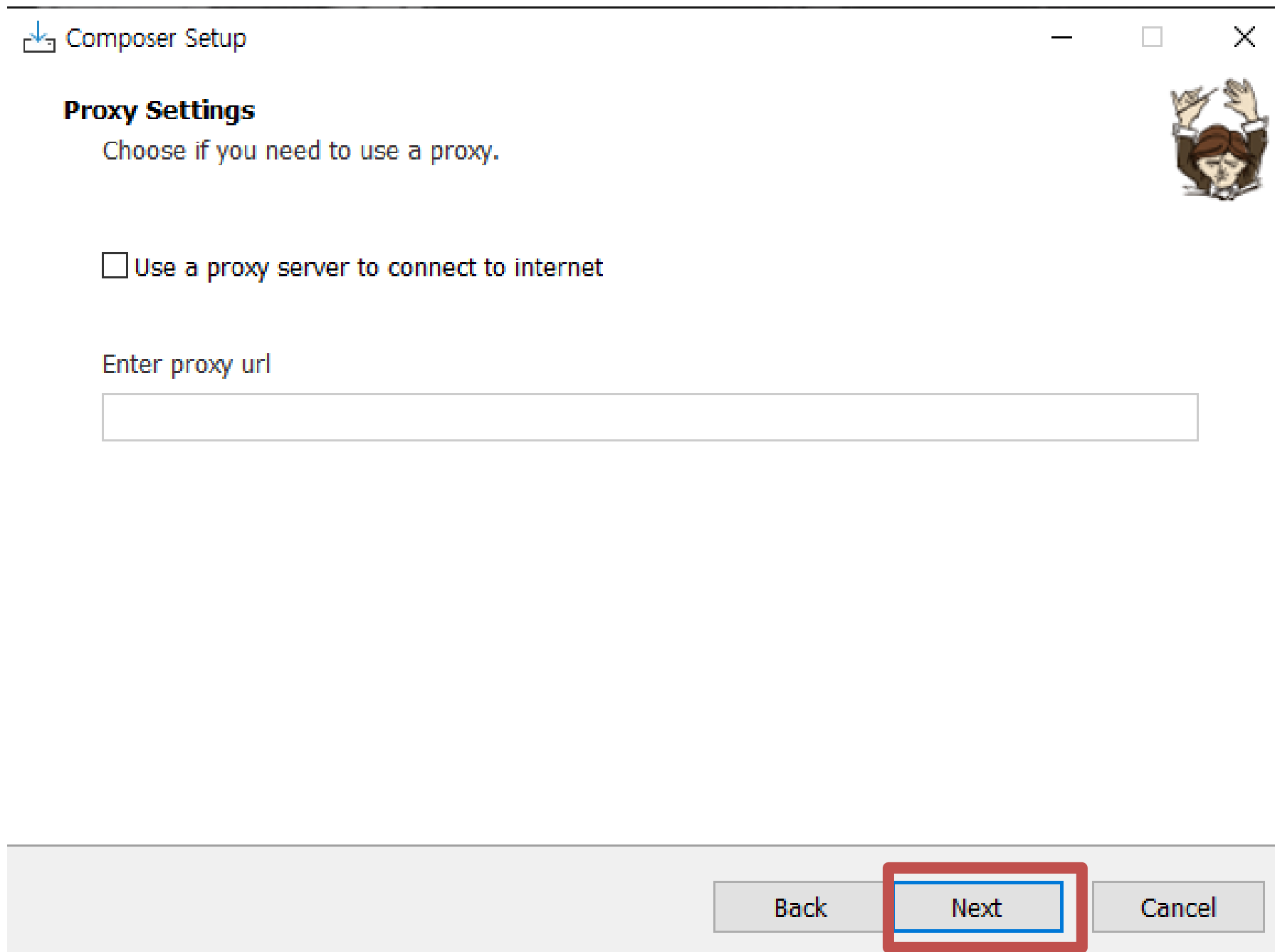
```
sudo mv composer.phar /usr/local/bin/composer
```

1. 검색창에 Composer 검색
2. Download 클릭
3. windows installer 하단의 Composer-Setup.exe 클릭

# Composer 설치 2



# Composer 설치 3





# Composer 설치 4

Composer Setup

## Information

Please read the following information before continuing.

## Important

You must open a new command window to use Composer for the first time, because your environment has changed and running programs may not be aware of this.

If this does not work, you will have to do one of the following:

- Close all File Explorer windows, then open a new command window. OR
- Logoff and Logon again, then open a new command window.

As a last resort, you may need to restart your computer.

\* 체크박스 비워두기

Next

Composer Setup



## Completing Composer Setup

Setup has installed Composer on your computer.  
Usage: Open a command window and type "composer"

Click Finish to exit Setup.

☐ View online documentation

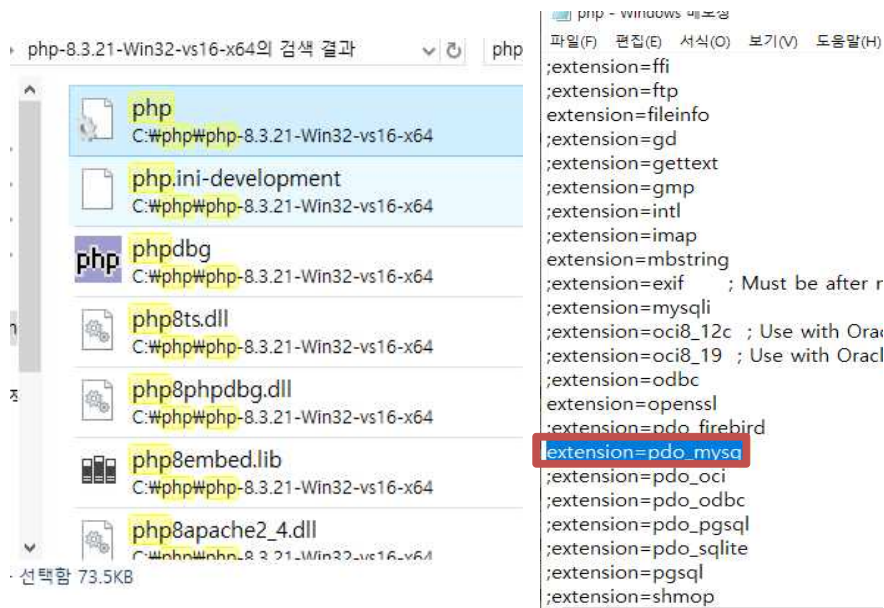
Back

Finish



## 4. 프로젝트 연동

# 프로젝트 연동 : 주식 제거



1. php.ini 실행
2. extension = pdo\_mysql 주식 제거
3. extension\_dir = "C:\php\ext" 경로 수정
4. extension=fileinfo 주식 제거

# 프로젝트 연동 : 주식 제거

```
; The directory under which PHP opens the script using /~username used only  
; if nonempty.  
; https://php.net/user-dir  
user_dir =
```

```
; Directory in which the loadable extensions (modules) reside.  
; https://php.net/extension-dir  
;extension_dir = "./"  
; On windows:
```

```
extension_dir = "C:\php\ext"
```

```
; Directory where the temporary files should be placed.  
; Defaults to the system default (see sys_get_temp_dir)  
;sys_temp_dir = "/tmp"
```

1. php.ini 실행
2. extension = pdo\_mysql 주식 제거
3. extension\_dir = "C:\php\ext"  
경로 수정
4. extension=fileinfo 주식 제거

# 프로젝트 연동 : 주식 제거

```
; The ldap extension must be before curl if OpenSSL 1.0.2 and OpenLDAP is used
; otherwise it results in segfault when unloading after using SASL.
; See https://github.com/php/php-src/issues/8620 for more info.
;extension=ldap
extension=curl
;extension=ffi
;extension=ftp
extension=fileinfo
;extension=gd
;extension=gettext
;extension=gmp
;extension=intl
;extension=imap
extension=mbstring
;extension=exif ; Must be after mbstring as it depends on it
;extension=mysqli
;extension=oci8_12c ; Use with Oracle Database 12c Instant Client
;extension=oci8_19 ; Use with Oracle Database 19 Instant Client
```

1. php.ini 실행
2. extension = pdo\_mysql 주식 제거
3. extension\_dir = "C:\php\ext"  
경로 수정
4. extension=fileinfo 주식 제거

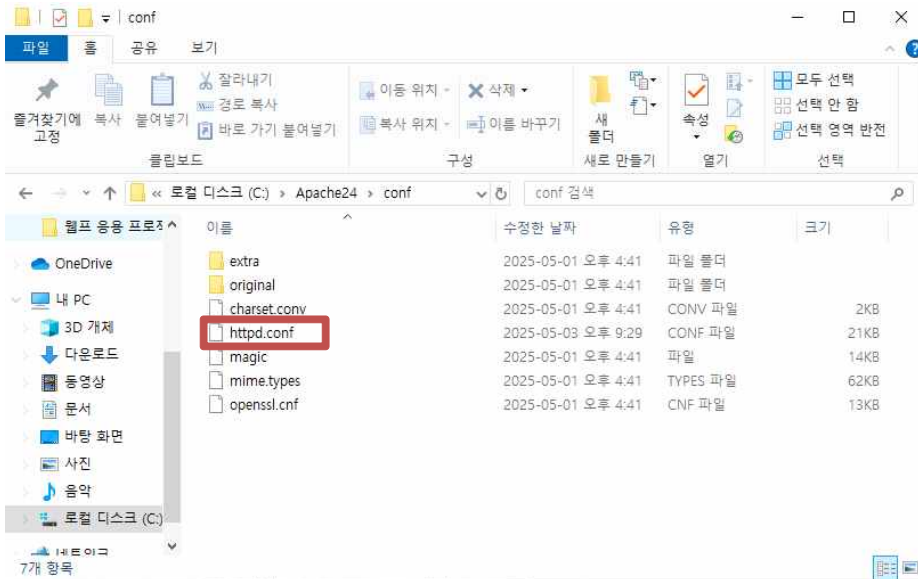
# 프로젝트 연동 : Git Clone

1. git clone  
<https://github.com/GUBBIB/WebProgramingTeamProject>
2. cd WebProgramingTeamProject ->  
git pull origin LocalServer
3. cd front-end -> npm install -> npm run build
4. cd ../back-end -> composer install
5. cp .env.example .env

# 프로젝트 연동 : env 수정

```
back-end > .env
1 APP_NAME=Laravel
2 APP_ENV=local
3 APP_KEY=base64:aH17/BHccnCkP0bpP1nTeZi1sJ8QeO/amfR5e9T1mLg=
4 APP_DEBUG=true
5 APP_URL=http://localhost
6
7 APP_LOCALE=en
8 APP_FALLBACK_LOCALE=en
9 APP_FAKER_LOCALE=en_US
10
11 APP_MAINTENANCE_DRIVER=file
12 # APP_MAINTENANCE_STORE=database
13
14 PHP_CLI_SERVER_WORKERS=4
15
16 BCRYPT_ROUNDS=12
17
18 LOG_CHANNEL=stack
19 LOG_STACK=single
20 LOG_DEPRECATIONS_CHANNEL=null
21 LOG_LEVEL=debug
22
23 DB_CONNECTION=mysql
24 DB_HOST=13.60.93.77
25 DB_PORT=3306
26 DB_DATABASE=laravel_db
27 DB_USERNAME=laravel_user
28 DB_PASSWORD=1111
29
30 SESSION_DRIVER=cookie
31 SESSION_LIFETIME=120
32 SESSION_ENCRYPT=false
33 SESSION_PATH=/
34 SESSION_DOMAIN=
```

# 프로젝트 연동 : 주식 제거

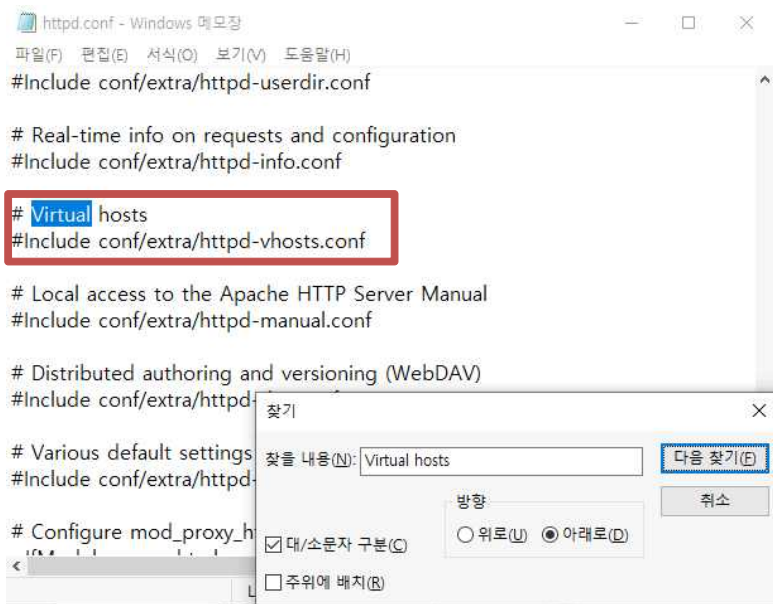


1. C:\Apache24\conf\httpd.conf

2. Ctrl + F → Virtual hosts 검색

3. 해당 단어 아랫줄 주석 제거

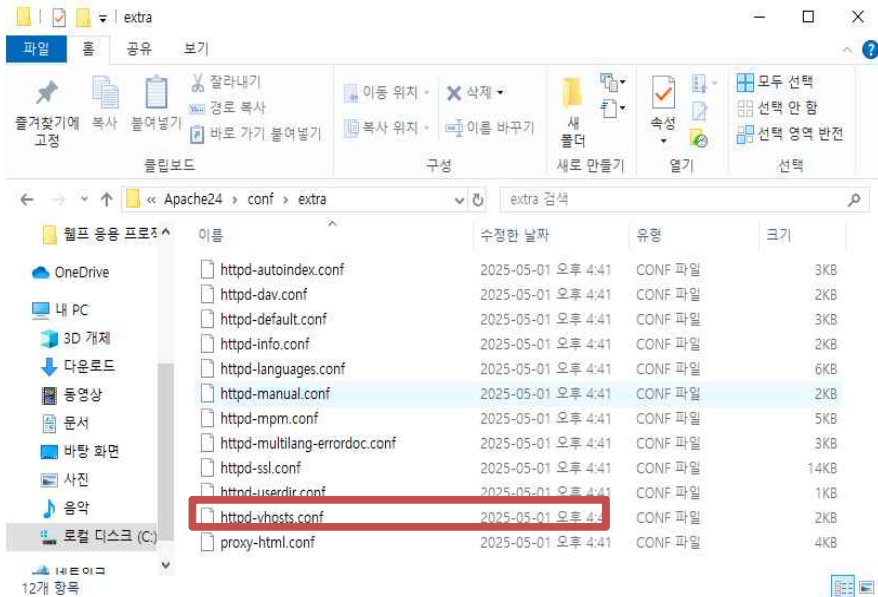
# 프로젝트 연동 : 주식 제거



1. C:\Apache24\conf\httpd.conf
2. Ctrl + F → Virtual hosts 검색
3. 해당 단어 아랫줄 주식 제거



# 프로젝트 연동: 코드 추가



C:\Apache24\conf\extra\httpd-vhosts.conf 이동

# 프로젝트 연동 : 코드 추가

```
<VirtualHost *:80>
    ServerName localhost

    DocumentRoot ""

    <Directory "">
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

</VirtualHost>
```

1. C:\Apache24\conf\extra\httpd-vhosts.conf
2. 모든 내용 지우기
3. DocumentRoot와 <Directory>는 본인의 React 프로젝트의 /build 디렉토리 경로로 수정 필요

# 프로젝트 연동 : 주의사항

php artisan key:generate 하는데 오류가 나는 경우  
= composer install이 잘못 된것

1. rm -rf vendor
2. composer install

# 프로젝트 연동: 서버 작동

1. cd back-end

2. php artisan serve --port=8000 입력

\* 아파치 서버는 꼭 켜다가 키기

## 사이트 주소

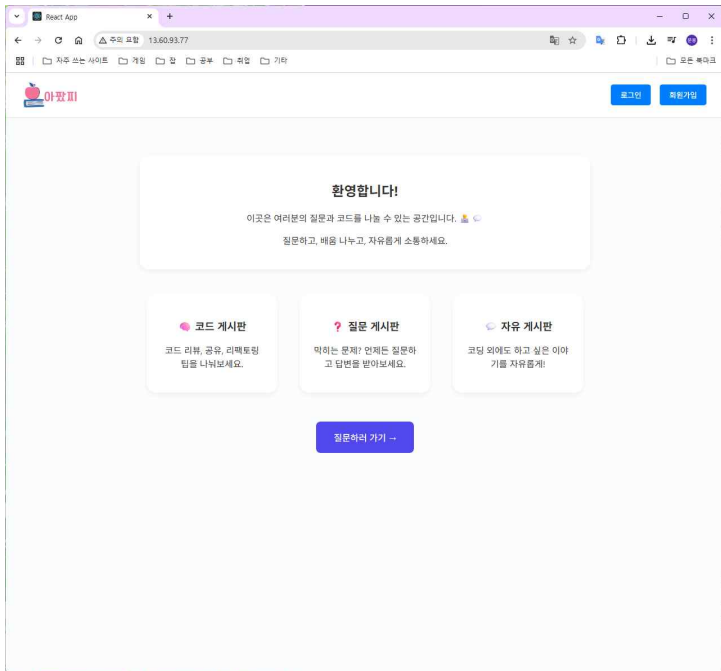
<http://13.60.93.77/>

## 5. 웹 페이지 소개

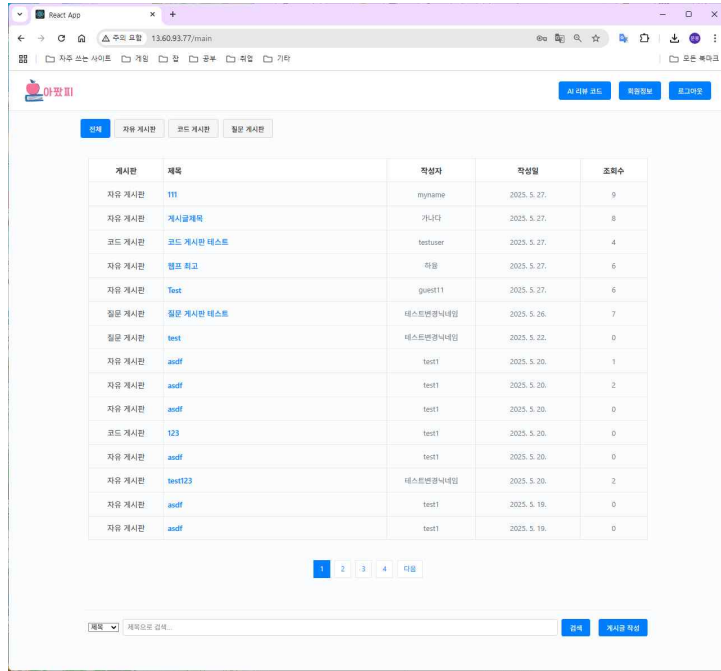
# 사이트 주소

<http://13.60.93.77/>

# 메인 페이지



# 게시판 페이지





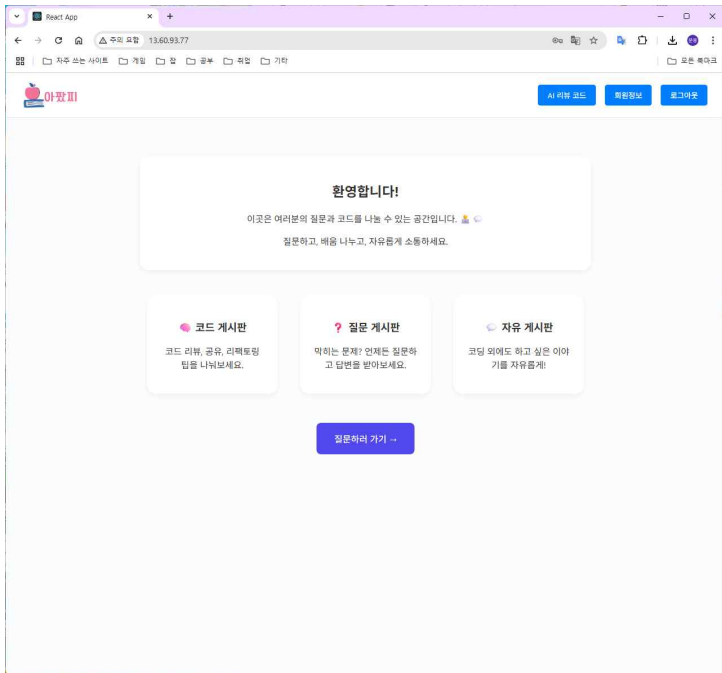
# 로그인 페이지

The screenshot shows a web browser window with the URL `13.60.93.77/login`. The page features a logo with an apple and the text '아 쌤 피' in the top left. In the top right, there are two blue buttons: '로그인' (Login) and '회원가입' (Sign Up). The main content is a white box titled '로그인' (Login). Inside this box, there are two input fields: '이메일 주소' (Email address) with the placeholder '이메일 주소를 입력하세요' (Enter email address), and '비밀번호' (Password) with the placeholder '비밀번호를 입력하세요' (Enter password). Below these fields is a large blue button labeled '로그인' (Login). At the bottom of the box, there is a link that says '계정이 없으신가요? [회원가입](#)' (Don't have an account? [Sign Up](#)).

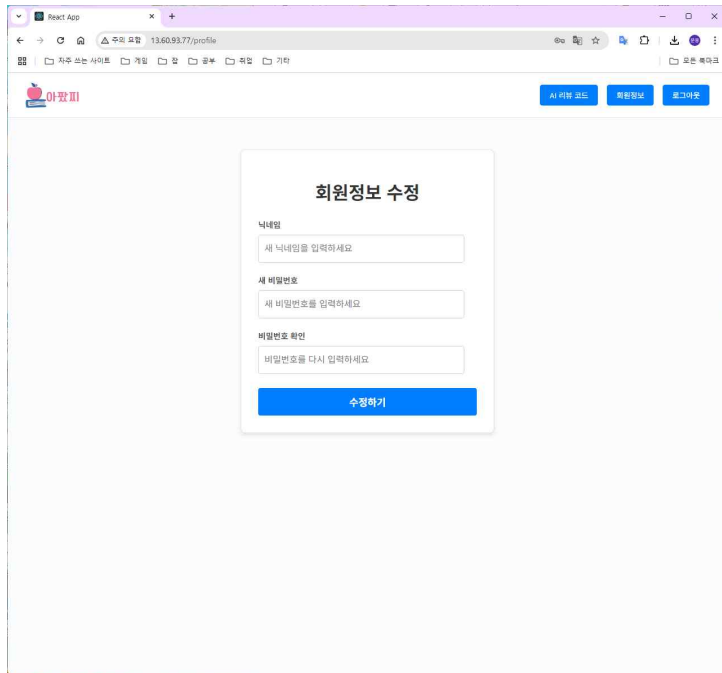
# 회원가입 페이지

The screenshot shows a web browser window with the URL `13.60.93.77/signup`. The page features the same logo and top navigation as the login page. The main content is a white box titled '회원가입' (Sign Up). Inside this box, there are four input fields: '닉네임' (Nickname) with the placeholder '닉네임을 입력하세요' (Enter nickname), '이메일 주소' (Email address) with the placeholder '이메일 주소를 입력하세요' (Enter email address), '비밀번호' (Password) with the placeholder '비밀번호를 입력하세요' (Enter password), and '비밀번호 확인' (Confirm Password) with the placeholder '비밀번호를 다시 입력하세요' (Re-enter password). Below these fields is a large blue button labeled '가입하기' (Sign Up). At the bottom of the box, there is a link that says '이미 계정이 있으신가요? [로그인](#)' (Already have an account? [Login](#)).

# 로그인 후 메인 페이지



# 회원정보 버튼 클릭 회원정보 수정 페이지



# 게시글 작성 페이지

React App

주소: 13.60.93.77/write

자주 쓰는 사이트 | 게임 | 잡 | 공부 | 취미 | 기타

로그아웃

새 게시글 작성

게시판 선택  
자유 게시판

제목  
제목을 입력하세요

내용 (Markdown)

# 마크다운

## 마크다운으로 작성 가능

- 마크다운  
- 마크다운 작성  
- 가능

마크다운

마크다운으로 작성 가능

- 마크다운
  - 마크다운 작성
  - 가능

등록 취소

CONCLUSION

# 게시글 상세 페이지

React App

주소: 13.60.93.77/boards/2/post/67

자주 쓰는 사이트 | 게임 | 잡 | 공부 | 취미 | 기타

로그아웃

게시글 작성 테스트

작성자: 테스트관리자님 | 작성일: 2025년 6월 16일 오후 09:13 | 조회수: 2 | 게시판 이름: 자유 게시판

수정 삭제

마크다운

마크다운으로 작성 가능

- 마크다운
  - 마크다운 작성
  - 가능

댓글

댓글 (0)

아직 댓글이 없습니다.

타스트관리자님, 댓글을 입력하세요...

댓글 작성

# 댓글 작성

댓글 기능은 수정, 삭제가  
구현이 안 돼 있습니다.

## 게시글 작성 테스트

작성자: 테스트변경닉네임 작성일: 2025년 6월 16일 오후 09:13 조회수: 2 게시판 이름: 자유 게시판

 수정  삭제

## 마크다운

### 마크다운으로 작성 가능

- 마크다운
  - 마크다운 작성
    - 가능

## 댓글

### 댓글 (0)

아직 댓글이 없습니다.

댓글 테스트입니다.

댓글 작성

# 댓글 작성

## 게시글 작성 테스트

작성자: 테스트변경닉네임 작성일: 2025년 6월 16일 오후 09:13 조회수: 2 게시판 이름: 자유 게시판

 수정  삭제

## 마크다운

### 마크다운으로 작성 가능

- 마크다운
  - 마크다운 작성
    - 가능

## 댓글

### 댓글 (1)

테스트변경닉네임 2025년 6월 16일 오후 09:17

댓글 테스트입니다.

테스트변경닉네임님, 댓글을 입력하세요...

댓글 작성

# 게시글 수정 페이지

“수정 테스트입니다.” 입력

게시글 수정

게시판 선택  
자유 게시판

제목  
게시글 작성 테스트

내용 (Markdown)

#마크다운

## 마크다운으로 작성 가능

-마크다운

-마크다운 작성

-가능

수정 테스트입니다!

수정 취소

# 게시글 수정 후 상세 페이지

CONCLUSION

게시글 작성 테스트

작성자: 테스트변환닉네임   작성일: 2025년 6월 16일 오후 09:13   조회수: 5   게시판 이름: 자유 게시판

수정   포스팅

마크다운

마크다운으로 작성 가능

- 마크다운
  - 마크다운 작성
  - 가능

수정 테스트입니다.

댓글

댓글 (1)

테스트변환닉네임 2025년 6월 16일 오후 09:17

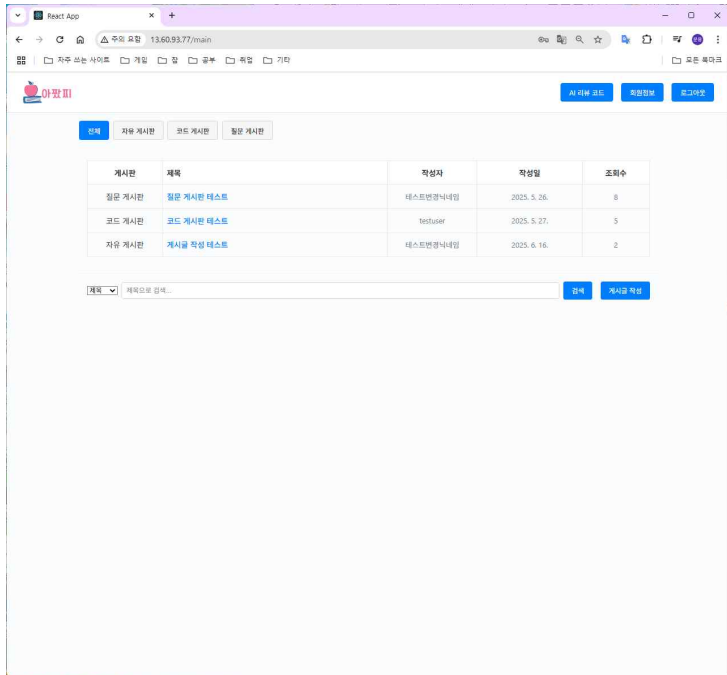
댓글 테스트입니다.

댓글을 입력하세요...

댓글 작성

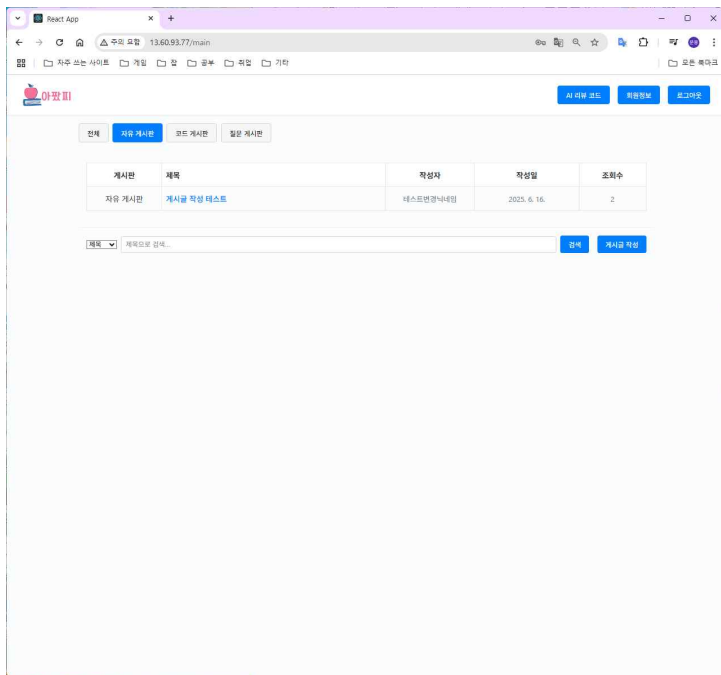
# 검색 기능

“테스트” 입력후 검색 버튼 클릭 페이지

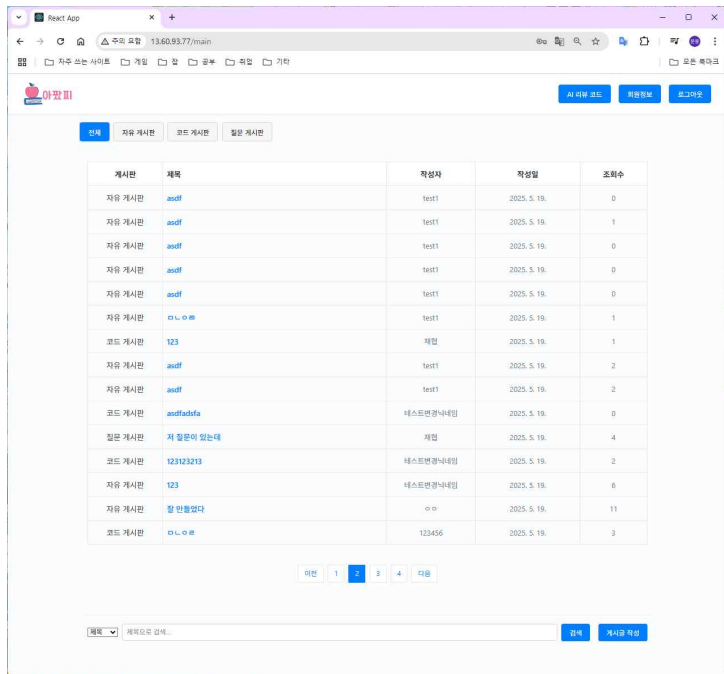


# 검색 기능

다른 게시판에서 “테스트” 입력후 검색 버튼 클릭 페이지

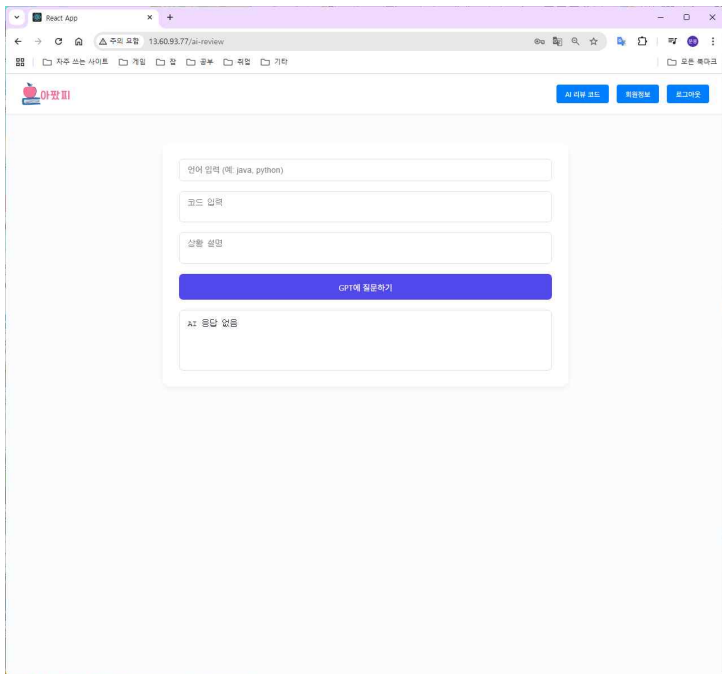


# 페이지 네이션 기능

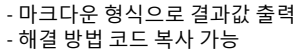


CONCLUSION

# AI 코드 리뷰 기능 페이지



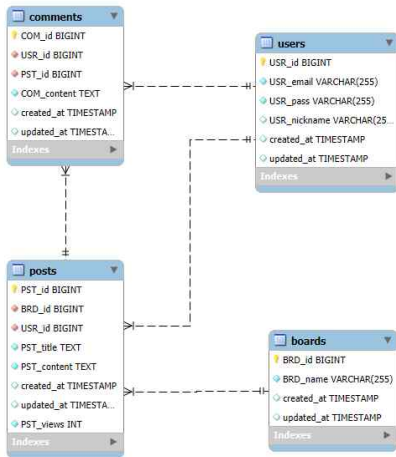
## CONCLUSION



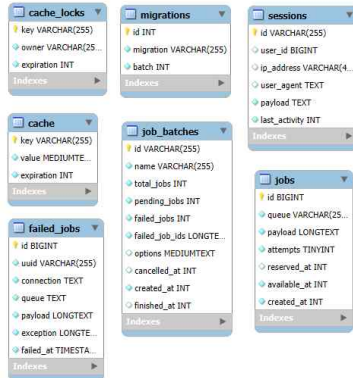


# DB ERD 구조

## 구현한 DB 테이블



## Laravel 기본 시스템 테이블



## 사용한 AI 모델 : GPT-4o-mini

gpt-4o-mini	60,000 TPM	3 RPM	200,000 TPD
		200 RPD	

## API keys

**+ Create new secret key**

As an owner of this project, you can view and manage all API keys in this project.

Do not share your API key with others or expose it in the browser or other client-side code. To protect your account's security, OpenAI may automatically disable any API key that has leaked publicly.

View usage per API key on the [Usage page](#).

NAME	SECRET KEY	LAST USED ⓘ	CREATED BY	PERMISSIONS
ApacheWeb	sk-...9ycA	2025년 6월 3일	moon yung	All
Web_Test_Key	sk-...khoA	Never	moon yung	All

API키 생성 후, 라라벨 Controller에서  
이렇게 사용했습니다.

```

reference[0 overrides
public function ai_request_review($request,$apikey){
    $language = $request->input(key: 'language');
    $code = $request->input(key: 'code');
    $situation = $request->input(key: 'situation');

    $apiKey = env(key: 'GPTAI_API_KEY');
    Log::info(message: 'GPTAI API Key:', context: ['api_key' => $apiKey]);

    $textToSend =
        "언어: {$language}\n코드는: {$code}\n상황: {$situation}\n
        한국어로 왜 이런 상황이 나왔는지 또는 왜 이렇게 코드 결과가 나오는지
        또는 왜 이렇게 코드를 짜야하는지 마크다운 형식으로 구체적인 코드와 해결책을 제공해 주세요.";

    $response = Http::withHeaders(headers: [
        'Content-Type' => 'application/json',
        'Authorization' => "Bearer " . $apiKey,
    ])->post(url: 'https://api.openai.com/v1/chat/completions', data: [
        'model' => 'gpt-4o-mini',
        'store' => true,
        'messages' => [
            ['role' => 'user', 'content' => $textToSend]
        ]
    ]);

    if ($response->successful()) {
        return response()->json(data: [
            'status' => 'success',
            'result' => $response->json(),
        ]);
    } else {
        Log::error(message: 'Moderation API 호출 실패', context: [
            'error_code' => $response->status(),
            'body' => $response->body(),
        ]);

        return response()->json(data: [
            'status' => 'error',
            'message' => 'Moderation API 호출 실패',
            'debug' => $response->json(),
        ], status: 500);
    }
}
}

```