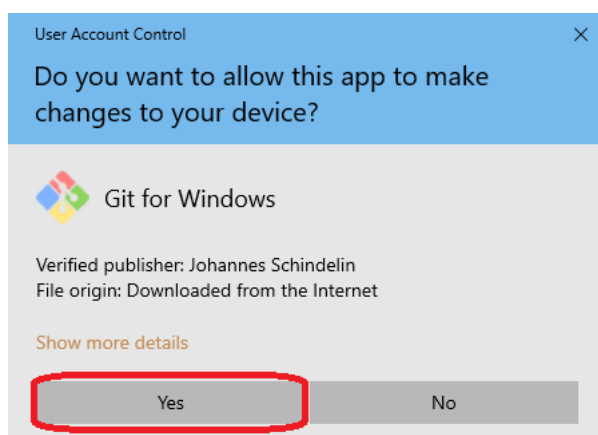
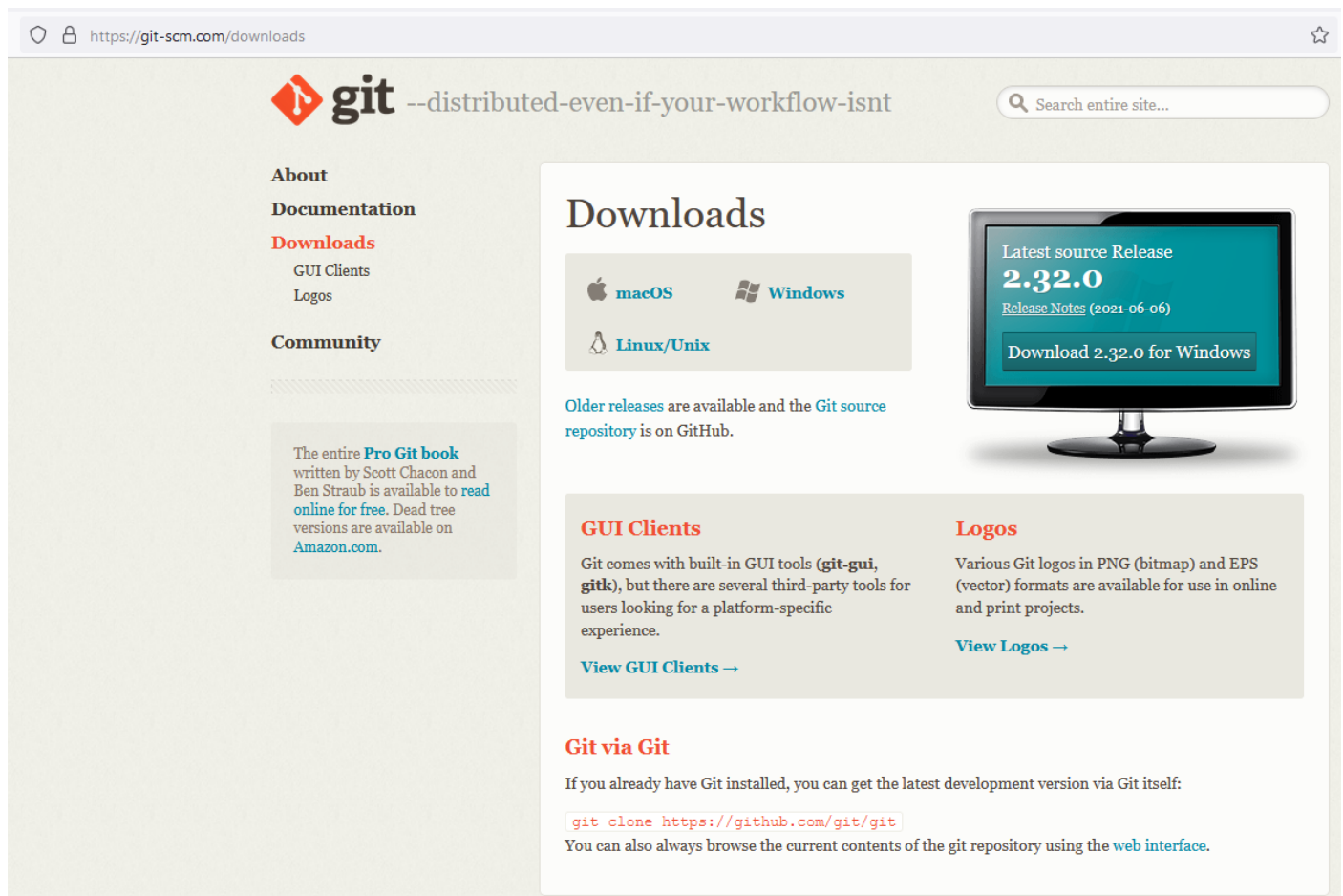
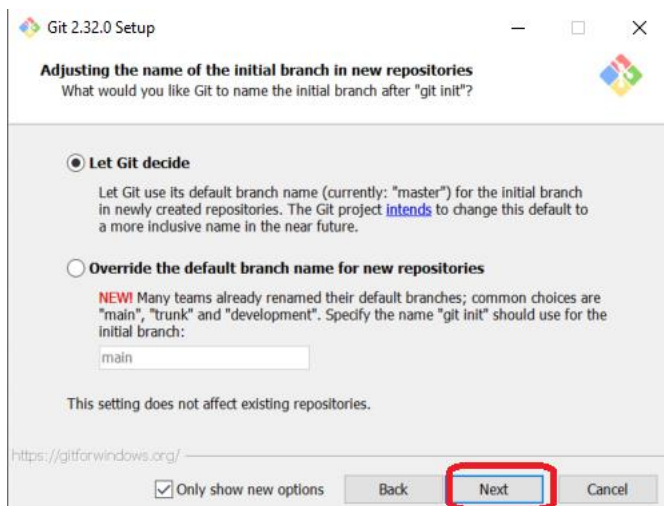
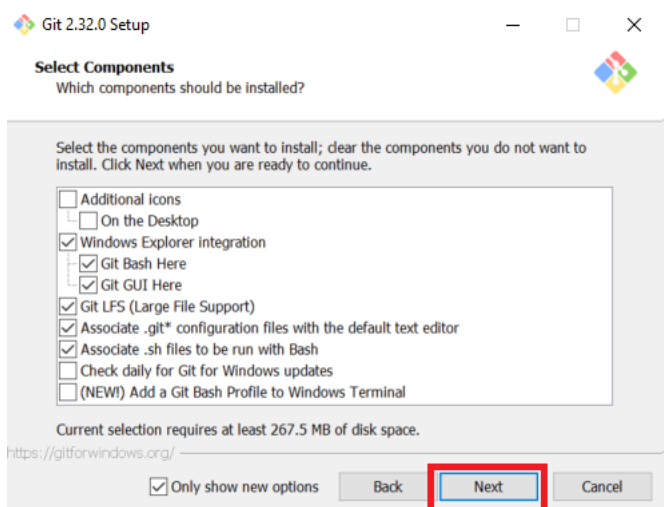


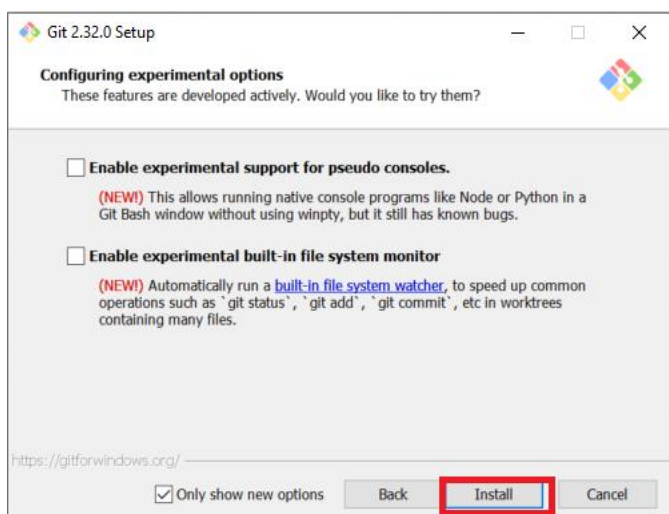
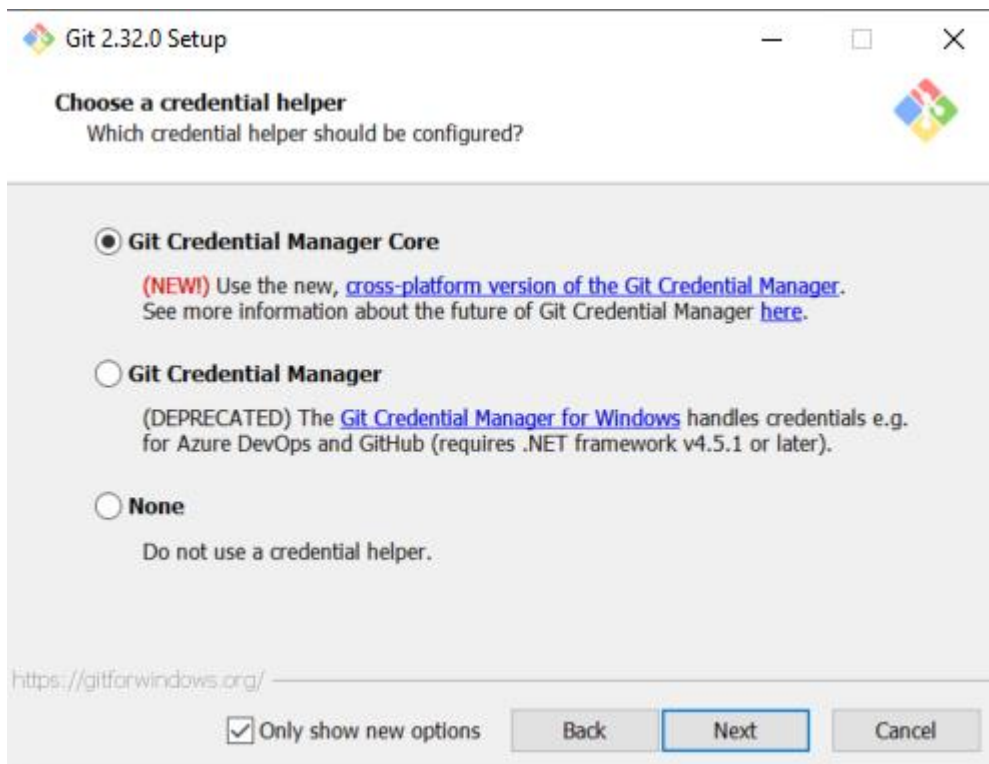
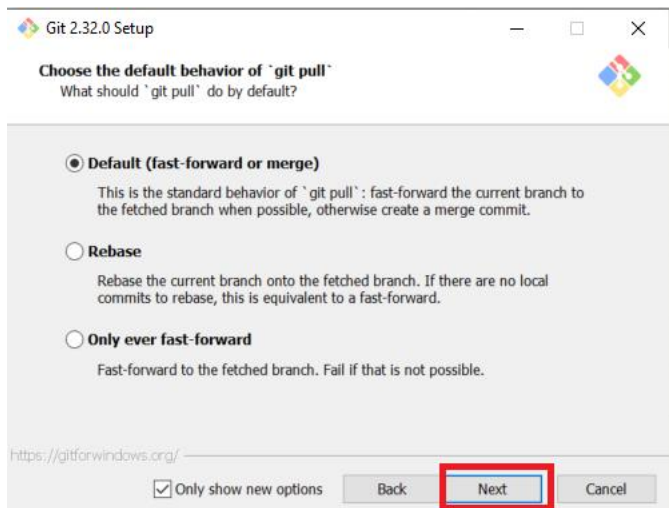
1. MENGINSTALL GIT (Versioning Control System)

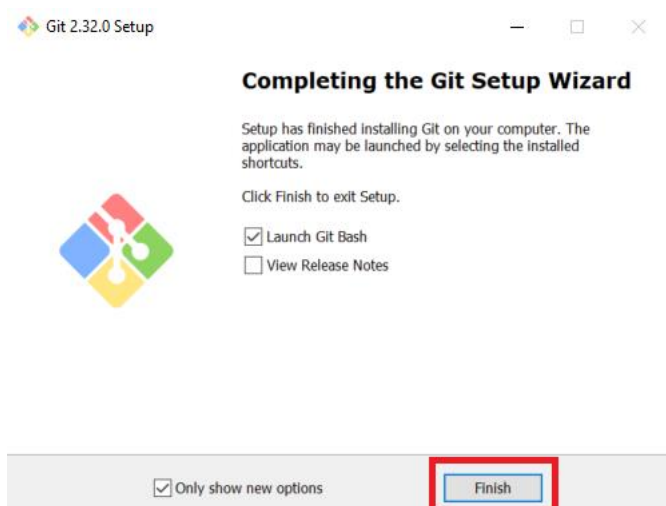
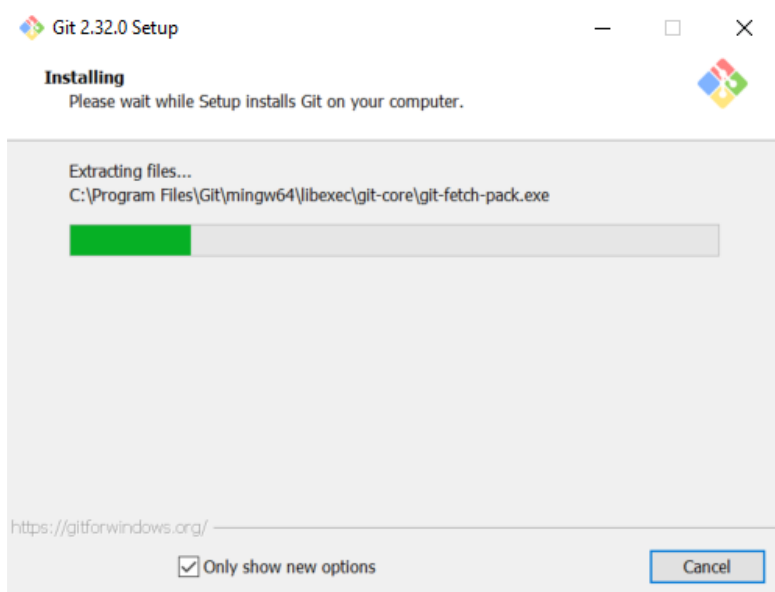
Download installer git terbaru dari link berikut:

<https://git-scm.com/downloads>





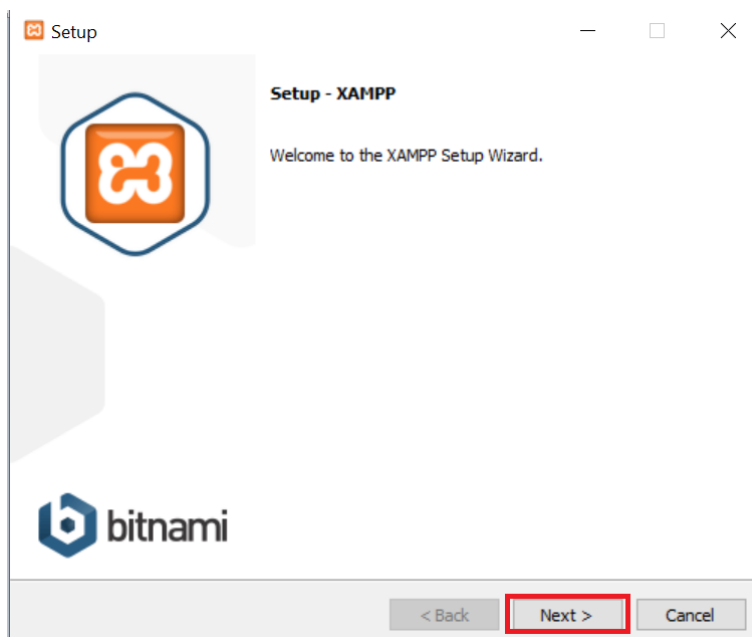
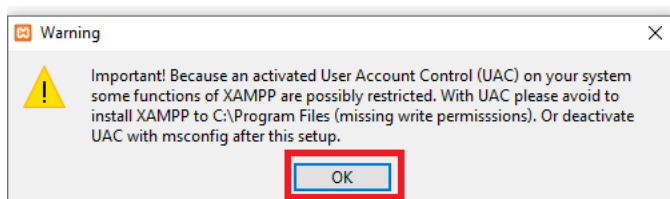
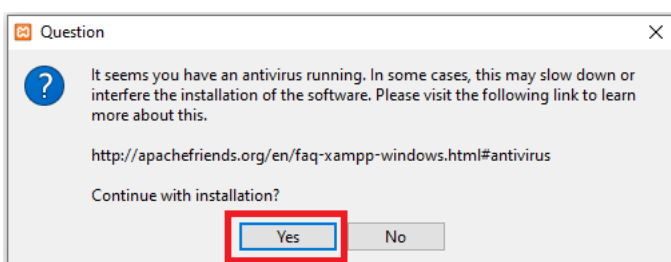
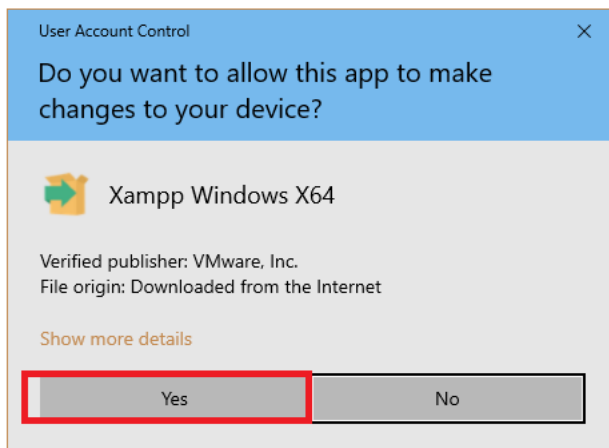


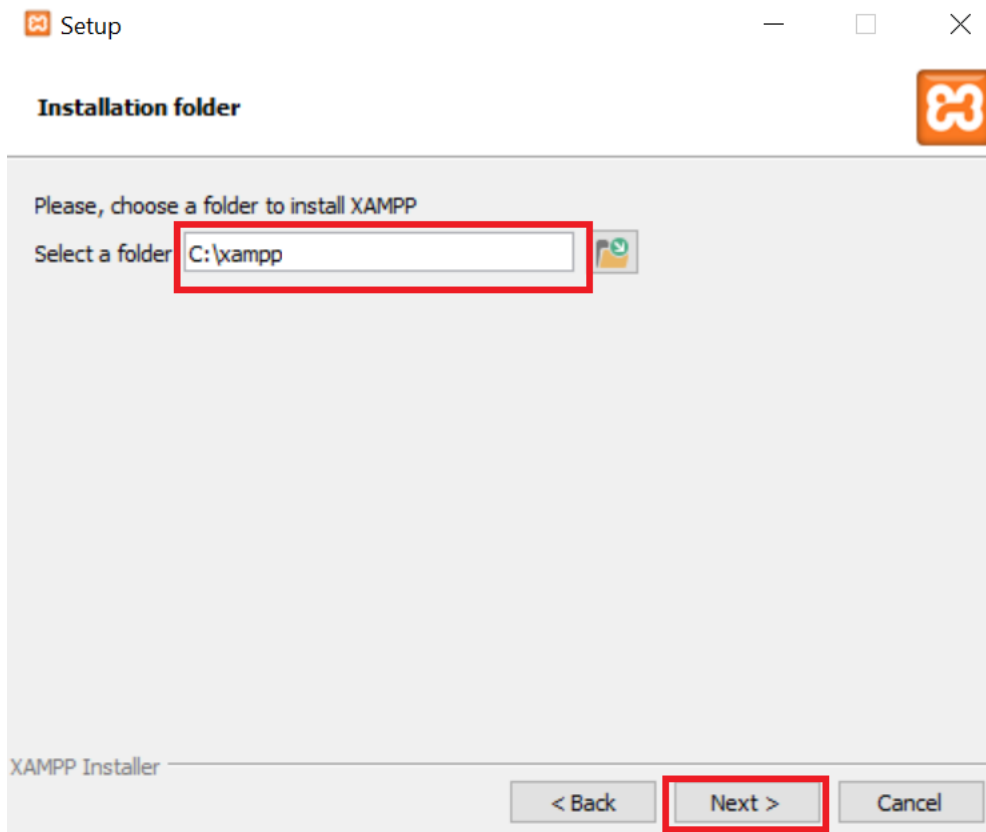
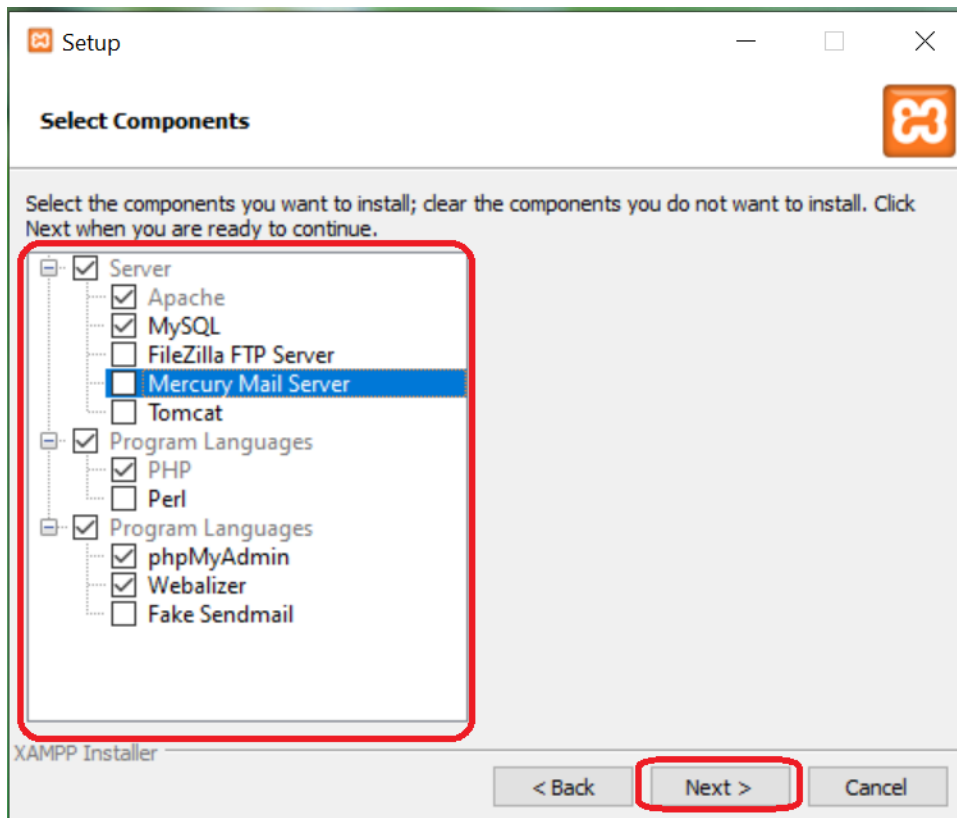


2. MENGINSTALL XAMPP (PHP, Mysql, PhpMyadmin)

Download installer terbaru dari link berikut:

<https://www.apachefriends.org/index.html>





Language

XAMPP Control Panel for Windows supports different languages.

Language

XAMPP Installer

< Back

Next >

Cancel

Bitnami for XAMPP

Bitnami for XAMPP provides free installers that can install Drupal, Joomla!, WordPress and many other popular open source apps on top of your existing XAMPP installation.

<https://bitnami.com/xampp>

Learn more about Bitnami for XAMPP ☒

XAMPP Installer

< Back

Next >

Cancel

Ready to Install

Setup is now ready to begin installing XAMPP on your computer.

XAMPP Installer

< Back

Next >

Cancel

Welcome to XAMPP!



XAMPP is an easy to install Apache distribution containing MySQL, PHP and Perl

Installing

Unpacking files



XAMPP Installer

< Back

Next >

Cancel

**Completing the XAMPP Setup Wizard**

Setup has finished installing XAMPP on your computer.

☒ Do you want to start the Control Panel now?



< Back

Finish

Cancel

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache			Start Admin Config Logs
<input type="checkbox"/>	MySQL			Start Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

10:08:28 AM [Apache] Status change detected: stopped
10:08:28 AM [Apache] Attempting to start Apache app...
10:08:29 AM [Apache] Status change detected: running
10:37:51 AM [Apache] Attempting to stop Apache (PID: 18512)
10:37:51 AM [Apache] Attempting to stop Apache (PID: 16424)
10:37:52 AM [Apache] Status change detected: stopped
10:37:53 AM [mysql] Attempting to stop MySQL app...
10:37:53 AM [mysql] Status change detected: stopped

Config Netstat Shell Explorer Services Help Quit

Jalankan Apache dan Mysql -> Start.

XAMPP Control Panel v3.3.0

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	19828 19656	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL	19732	3306	Stop Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

Log window:

```

10:37:51 AM [Apache] Attempting to stop Apache (PID: 16424)
10:37:52 AM [Apache] Status change detected: stopped
10:37:53 AM [mysql] Attempting to stop MySQL app...
10:37:53 AM [mysql] Status change detected: stopped
10:40:15 AM [Apache] Attempting to start Apache app...
10:40:15 AM [Apache] Status change detected: running
10:40:16 AM [mysql] Attempting to start MySQL app...
10:40:16 AM [mysql] Status change detected: running
  
```

Tambahkan Database Berikut dengan nama **"laravelbackend"**

```

-- phpMyAdmin SQL Dump
-- version 5.1.1
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Waktu pembuatan: 12 Jun 2021 pada 03.49
-- Versi server: 10.4.19-MariaDB
-- Versi PHP: 8.0.7

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
START TRANSACTION;
SET time_zone = "+00:00";

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;

--
-- Database: `laravelbackend`
--

--
-- Struktur dari tabel `karyawan`
  
```

```
--
CREATE TABLE `karyawan` (
  `id` int(10) UNSIGNED NOT NULL,
  `nama` varchar(255) COLLATE utf8mb4_unicode_ci NOT NULL,
  `alamat` text COLLATE utf8mb4_unicode_ci NOT NULL,
  `created_at` timestamp NULL DEFAULT NULL,
  `updated_at` timestamp NULL DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;

--
-- Dumping data untuk tabel `karyawan`
--

INSERT INTO `karyawan` (`id`, `nama`, `alamat`, `created_at`, `updated_at`) VALUES
(2, 'Siti Palastri', 'Dk. Daan No. 591, Payakumbuh 30914, SulTra', NULL, NULL),
(3, 'Aurora Ilsa Nasyiah', 'Ki. Cikapayang No. 993, Malang 73331, NTT', NULL, NULL),
(4, 'Jamal Uwais', 'Ki. Basket No. 63, Ambon 39363, KalUt', NULL, NULL),
(5, 'Nabila Uyainah', 'Ki. Badak No. 351, Padangsidempuan 25170, Aceh', NULL, NULL),
(6, 'Satya Manullang', 'Dk. Sugiyopranoto No. 954, Langsa 77615, BaBel', NULL, NULL),
(7, 'Kasim Budiman', 'Jln. Banal No. 219, Tangerang 22457, Papua', NULL, NULL),
(8, 'Agnes Hana Winarsih M.Kom.', 'Ki. Padang No. 190, Pontianak 81244, DIY', NULL, NULL),
(9, 'Among Joko Marpaung M.Kom.', 'Ds. Supomo No. 588, Bau-
Bau 70894, SumBar', NULL, NULL),
(10, 'Baktianto Kusumo S.E.', 'Kpg. Casablanca No. 773, Balikpapan 84946, Jambi', NULL, NU
LL),
(12, 'Jerry', 'Jakarta12', '2021-02-23 11:51:43', '2021-02-23 12:07:37'),
(13, 'Tonny Wank', 'Jakarta13', '2021-06-11 07:20:54', '2021-06-11 07:22:46');

--
-- Indexes for dumped tables
--

--
-- Indeks untuk tabel `karyawan`
--
ALTER TABLE `karyawan`
  ADD PRIMARY KEY (`id`);

--
-- AUTO_INCREMENT untuk tabel yang dibuang
--


--
-- AUTO_INCREMENT untuk tabel `karyawan`
--
ALTER TABLE `karyawan`
  MODIFY `id` int(10) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=14;
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

3. MENGINSTALCOMPOSER

Download installer **Composer** terbaru dari link berikut:

<https://getcomposer.org/>



A Dependency Manager for PHP

Latest: **2.1.3** ([changelog](#))

Composer 2.0 is now available! [Read our announcement!](#)

Getting Started

Download

Documentation


Browse Packages

Issues

GitHub

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

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Logo by: [WizardCat](#)

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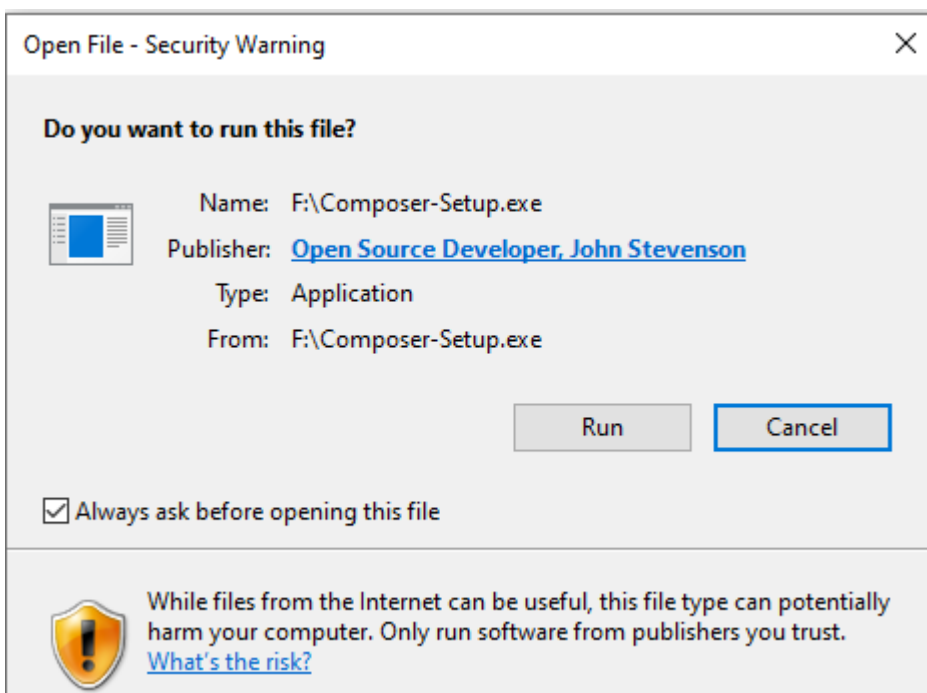
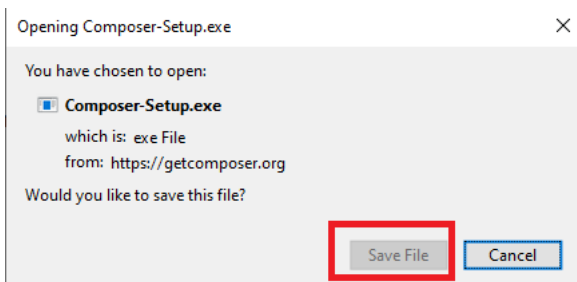
Download Composer Latest: v2.1.3

Windows Installer

The installer - which requires that you have PHP already installed - will download Composer for you and set up your 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



Select Setup Install Mode



Select install mode

Composer can be installed for all users (requires administrative privileges), or for you only.

 **Install for all users (recommended)**

→ Install for me only

Cancel

User Account Control



Do you want to allow this app to make changes to your device?



Composer Setup

Verified publisher: Open Source Developer, John Stevenson
File origin: Downloaded from the Internet

[Show more details](#)

Yes

No

Composer Setup



Installation Options

Choose your installation type.



Setup will install Composer to a fixed location for all users. This includes a Control Panel uninstaller and is the recommended option. Click Next to use it.

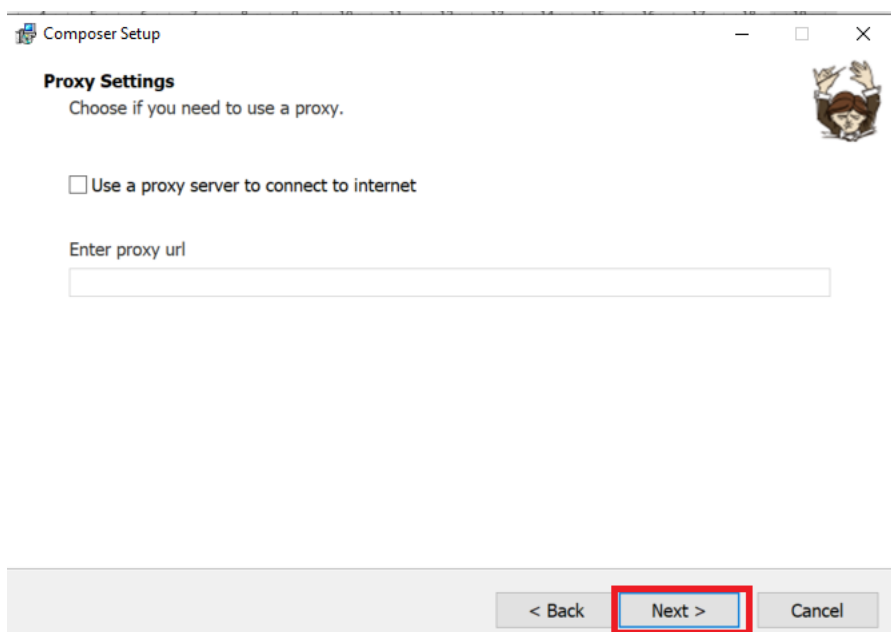
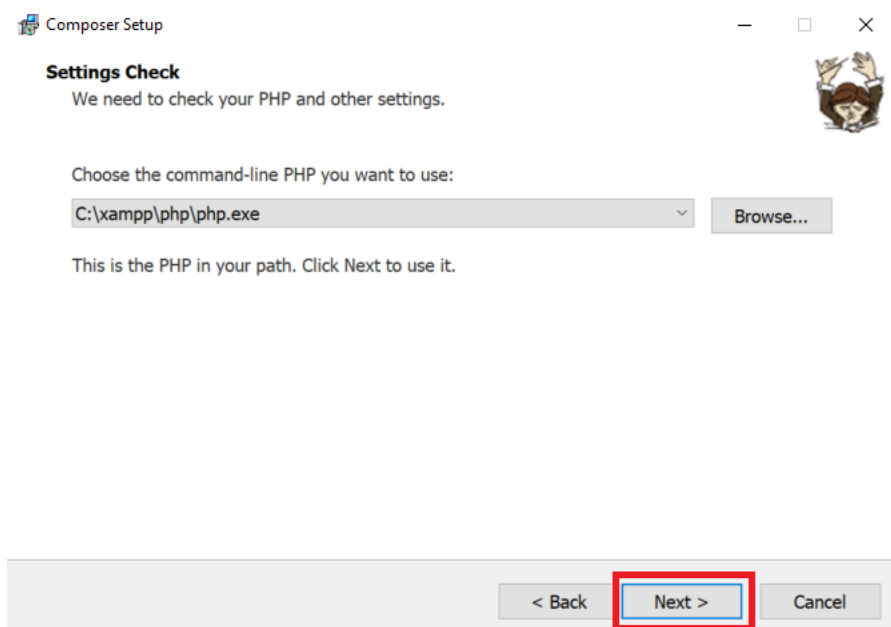
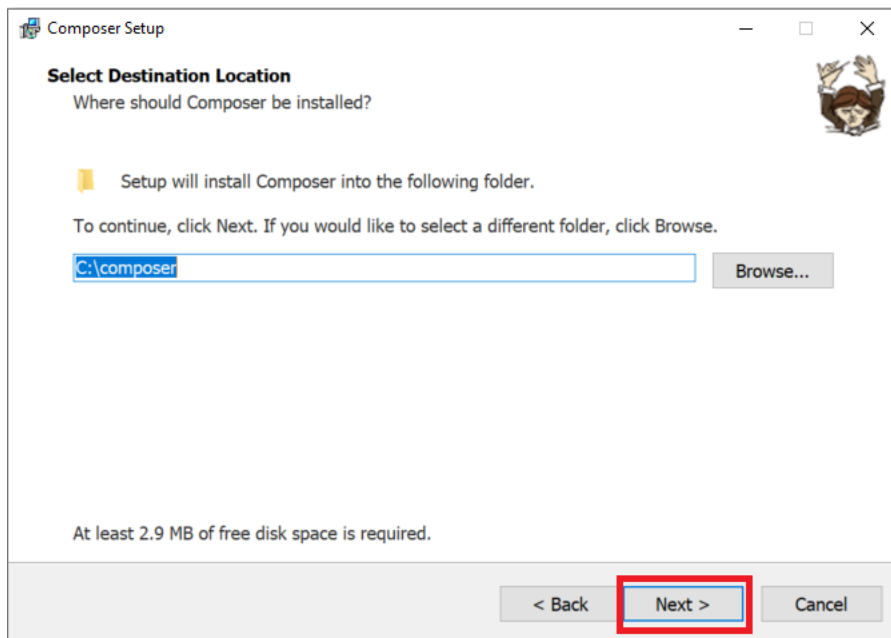
☒ **Developer mode**

Take control and just install Composer. An uninstaller will not be included.

Composer is already installed. You can uninstall it from the Control Panel later.

Next >

Cancel



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.

[Next >](#)**Ready to Install**

Setup is now ready to download Composer and install it on your computer.



Please review these settings. Click Install to continue with the installation.

Destination location:
C:\composer

PHP version 8.0.7
C:\xampp\php\php.exe

Proxy: none

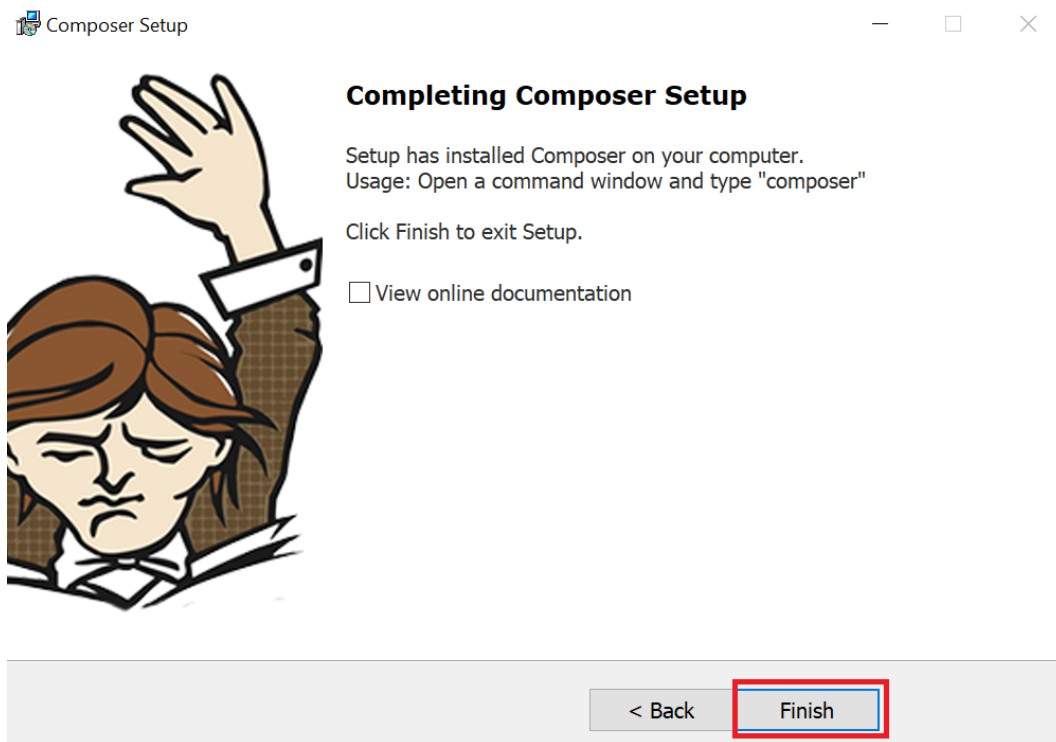
Add to System path:
C:\composer

Remove from System path:
C:\ProgramData\ComposerSetup\bin

< Back

[Install](#)

Cancel



Buka command prompt (cmd) kemudian ketikkan: "Composer"

```
C:\> Command Prompt

Microsoft Windows [Version 10.0.18363.1621]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\admin>composer

Composer version 2.1.3 2021-06-09 16:31:20

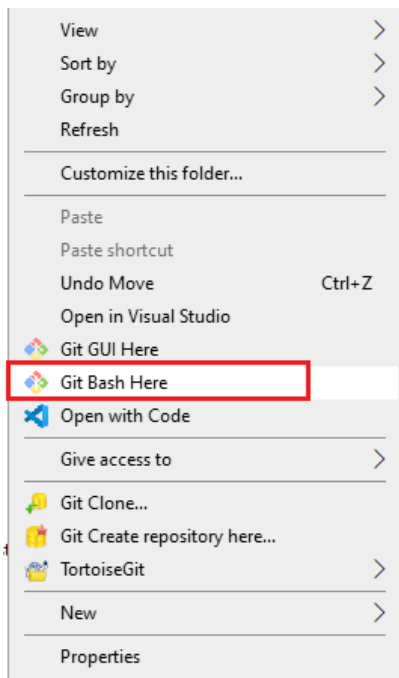
Usage:
  command [options] [arguments]

Options:
  -h, --help                Display this help message
  -q, --quiet               Do not output any message
  -V, --version             Display this application version
      --ansi                Force ANSI output
      --no-ansi             Disable ANSI output
  -n, --no-interaction      Do not ask any interactive question
      --profile             Display timing and memory usage information
      --no-plugins          Whether to disable plugins.
  -d, --working-dir=WORKING-DIR If specified, use the given directory as working directory.
      --no-cache            Prevent use of the cache
  -v|vv|vvv, --verbose      Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and 3 for debug
```

Kita telah berhasil menginstall composer (PHP Dependency Manager)

Bukalah C:/xampp/htdocs

Klik kanan->gitbash here



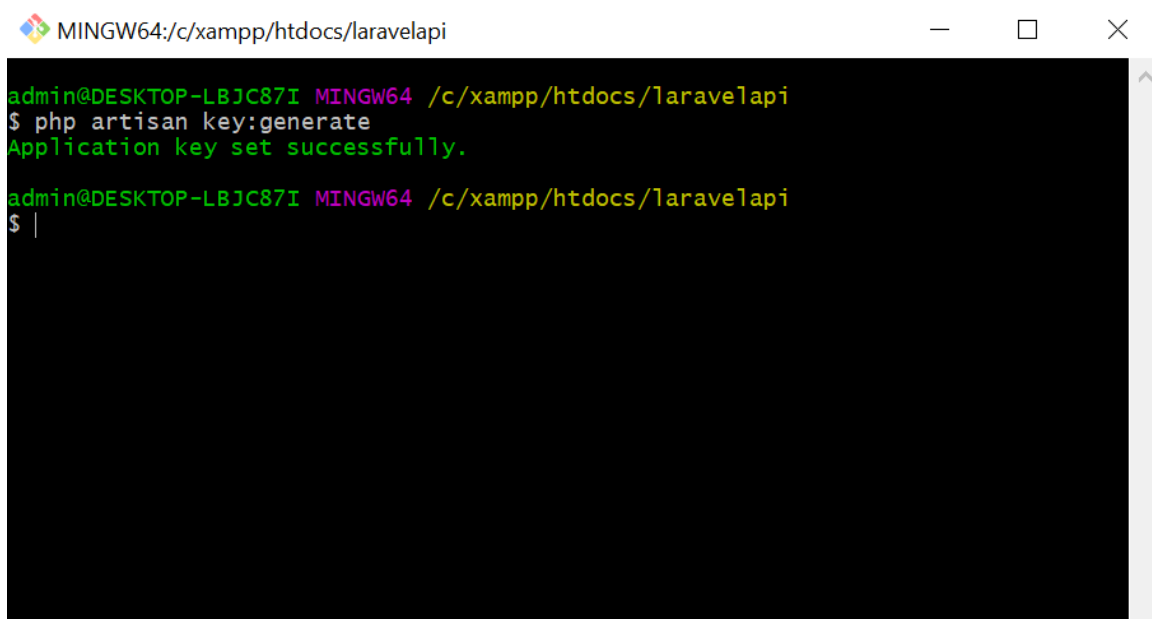
Ketikkan:

```
composer create-project --prefer-dist laravel/laravel:^7.0 latihanbackendlaravel
```

keluarlah dari gitbash dan buka kembali didalam project Laravel kita: laravelapi

ketikkan:

```
composer install
php artisan key:generate
```



```
php artisan
```

php artisan serve

buka url: localhost:8000/



untuk mematikan port 8000-> masih pada gitbash tekan CTRL+ C

Menjalankan Aplikasi Melalui VS CODE Pada gitbash didalam folder aplikasi dengan cara ketikkan:

```
code .
```

untuk menjalankan aplikasi tersebut pada VS Code.

Pada Aplikasi Laravel

Pada file: .env

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=laravelbackend
DB_USERNAME=root
DB_PASSWORD=
```

Pada folder: app/

Tambahkan KaryawanModel.php

Bisa dibuat manual atau menggunakan perintah:

```
php artisan make:model KaryawanModel
```

```
<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class KaryawanModel extends Model
{
    protected $table = 'karyawan';
    protected $primaryKey = 'id';
}
```

Pada folder: app/Http/Controllers/

Tambahkan ApiKaryawanController.php

Bisa dibuat manual atau menggunakan perintah:

```
php artisan make:controller ApiKaryawanController
```

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\KaryawanModel;

class ApiKaryawanController extends Controller
{
    public function get_all_karyawan()
    {
        return response()->json(KaryawanModel::all(), 200);
        // return response()->json(KaryawanModel::paginate(5), 200); // ->paginate(5)
    }

    public function insert_data_karyawan(Request $request)
    {
        $insert_karyawan = new KaryawanModel;
        $insert_karyawan->nama = $request-> namaKaryawan;
        $insert_karyawan->alamat = $request-> alamatKaryawan;
        $insert_karyawan->save();

        return response([
            'status' => 'Succeed',
            'message'=> 'Karyawan saved!',
            'data'=> $insert_karyawan],200);
    }
}
```

```

}

public function update_data_karyawan(Request $request)
{
    $check_karyawan = KaryawanModel::firstWhere('id', $request-> id);
    if($check_karyawan){
        $data_karyawan = KaryawanModel::find($request-> id);
        $data_karyawan->nama = $request-> namaKaryawan;
        $data_karyawan->alamat = $request-> alamatKaryawan;
        $data_karyawan->save();
        return response([
            'status' => 'Succeed',
            'message' => 'Record Updated Succesfully!',
            'data' => $data_karyawan],200);
    }
    else{
        $data_karyawan = KaryawanModel::find($request-> id);
        return response([
            'status' => 'Failed',
            'message' => 'Please check your input!',
            'data' => $data_karyawan],200);
    }
}

public function delete_data_karyawan(Request $request)
{
    $check_karyawan = KaryawanModel::firstWhere('id', $request-> id);
    if($check_karyawan){
        KaryawanModel::destroy($request-> id);
        return response([
            'status' => 'Succeed',
            'message' => 'Record Deleted Succesfully!',
            'data' => $check_karyawan],200);
    } else {
        return response([
            'status' => 'Failed Deleting..!',
            'message' => 'Please check your input!',
            'data' => $check_karyawan],200);
    }
}
}

```

Pada folder routes tambahkan didalam file api.php

```

<?php
use Illuminate\Http\Request;
use Illuminate\Support\Facades\Route;

```

```
/*
|-----
| API Routes
|-----
|
| Here is where you can register API routes for your application. These
| routes are loaded by the RouteServiceProvider within a group which
| is assigned the "api" middleware group. Enjoy building your API!
|
*/

Route::middleware('auth:api')->get('/user', function (Request $request) {
    return $request->user();
});

Route::get('karyawan', 'ApiKaryawanController@get_all_karyawan');
Route::post('karyawan', 'ApiKaryawanController@insert_data_karyawan');
Route::put('karyawan', 'ApiKaryawanController@update_data_karyawan');
Route::delete('karyawan', 'ApiKaryawanController@delete_data_karyawan');
```

Simpan dan jalankan link: <http://localhost/latihanbackendlaravel/public/api/karyawan>

Selanjutnya kita akan testing API yang sudah kita buat dengan postman.