

## Laravel Beginner Notes – Setup & Common Issues (Windows + CMD)

### Step 1: Create a New Laravel Project

#### Pre-requisites:

- PHP installed (via XAMPP recommended)
- Composer installed
- Node.js installed (for frontend assets)
- VS Code or any text editor

#### Command to create a Laravel project:

bash

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```
composer create-project laravel/laravel firstProject
```

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### Step 2: Navigate to Your Project

bash

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```
cd "C:\Users\YourName\Web Development\Laravel\firstProject"
```

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### Step 3: Install Laravel Breeze (Starter Kit - optional)

bash

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```
composer require laravel/breeze --dev
```

```
php artisan breeze:install none # or react/vue/livewire
```

```
npm install
```

```
npm run dev
```

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### Step 4: Choose Testing Framework

You'll be asked:

"Which testing framework do you prefer?"

- 0 for **Pest** (recommended for beginners)
- 1 for **PHPUnit**

Just press Enter to accept default Pest.

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### **Step 5: Serve the Application**

bash

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php artisan serve

Visit: <http://127.0.0.1:8000>

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### **Common Errors & Fixes**

#### **1. vendor/autoload.php not found**

**Reason:** You haven't run composer install.

 **Fix:**

bash

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composer install

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#### **2. ZIP extension or unzip not found**

**Error:**

pgsql

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Failed to download from dist: The zip extension and unzip/7z commands are both missing

 **Fix:**

- Edit php.ini and enable:

ini

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extension=zip

- Restart Apache from XAMPP.
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#### **3. MissingAppKeyException**

**Reason:** Laravel encryption key is missing.

 **Fix:**

bash

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cp .env.example .env # Or: copy .env.example .env (Windows)

php artisan key:generate

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#### 4. database.sqlite does not exist

**Reason:** You're using SQLite but haven't created the file yet.

✅ Fix:

- Create an empty file:

bash

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type nul > database/database.sqlite

- Update .env:

env

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DB\_CONNECTION=sqlite

DB\_DATABASE=C:/Users/YourName/Web

Development/Laravel/firstProject/database/database.sqlite

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#### 5. Ambiguous class resolution warnings

**Reason:** Duplicate class definitions (harmless for beginners).

✅ Fix (optional):

bash

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composer dump-autoload --optimize

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#### Useful Commands

Command	Description
composer install	Installs dependencies from composer.lock
php artisan serve	Starts the Laravel server

Command	Description
php artisan migrate	Creates tables in the database
php artisan make:controller	Creates a new controller
php artisan make:model ModelName -m	Creates a model with migration
php artisan key:generate	Generates APP_KEY in .env
npm install && npm run dev	Installs frontend assets

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#### **Tips for Beginners**

- Always check .env settings first for DB or app-related issues.
- Use php artisan list to explore all Artisan commands.
- Use forward slashes / in .env paths, even on Windows.