

laravel

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Laravel is a popular framework for php

1a. laravel requires sqlite.

```
> dnf install sqlite-devel
```

1b. To create a laravel project

```
> composer create-project laravel/laravel:^11.0 project-name
```

2. So laravel when developing is generally done by running a local web server, which listens on port 8000. From your project directory

```
> php artisan serve
```

Now point your browser at <http://localhost:8000>

3. in the app:

config directory - has configuration files.

(app.php is main one)

4. So I chose to use postgres to use as a database.

A. create user and database

```
> sudo -u postgres psql
```

```
> create user foo password 'bar';
```

```
> create database fubardb owner foo;
```

configure postgresql in .env in top level of project

```
DB_CONNECTION=pgsql
```

```
DB_HOST=127.0.0.1
```

```
DB_PORT=5432
```

```
DB_DATABASE=fubardb
```

```
DB_USERNAME=foo
```

```
DB_PASSWORD=bar
```

configure `/var/lib/pgsql/data/pg_hba.conf`

change the line for for ipv4 to:

(ident needs to change to trust)

```
host all all 127.0.0.1/32 trust
```

5. So this doesn't work...

need to compile postgres, and/or mysql

So php needs to be compiled with flags

```
./configure --with-pdo-mysql=mysqlnd \
```

```
--with-pdo-pgsql=mysqlnd \
```

```
--with-pgsql \
```

```
--with-mysqli
```

// Laravel uses the PDO objects in its database access.

6. run `php artisan migrate:fresh`

this generates the user account handling stuff for laravel

7. Routes are in the routes subdirectory

`routes/web.php`

To add an api

```
php artisan install:api
```

This generates `routes/api.php`

8. Creating a table in Laravel - Migration

```
> php artisan make:migration migration_name
```

This creates a php object timestamped, with the migration name in `database/migrations`

The object has an up and down function.

So to create the table update the up function.

```
public function up(): void
{
    Schema::create('cave', function (Blueprint $table) {
        $table->id();
        $table->string('name');
        $table->text("description");
        $table->string("city");
        $table->string('county');
        $table->string('state');
        $table->text("directions");
        $table->datetime("created");
        $table->string("source");
        $table->string("gps");
        $table->string("altitude");
        $table->string("depth");
        $table->string("length");
        $table->string("managedby");
        $table->string("area");
        $table->string("landowner");
        $table->timestamps();
    });
}
```