

## laravel

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Laraval is a popular framework for php

1a. laravel required 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 pgsql, 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 datestamped, 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();
    });
}
```