

Local Setup & Configuration Guide

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1. Introduction

This document provides the necessary steps to set up the **Trips & Roads** development environment. This platform, built with **CakePHP 5** and **PHP 8.2**, requires specific local configurations to handle database connections and Gemini AI integration.

2. Prerequisites

Before beginning the installation, ensure your machine has the following tools installed:

- **PHP 8.2+** (Required extensions: intl, mbstring, pdo_mysql).
- **Composer** (Dependency manager for PHP).
- **MySQL 8.0+** or **MariaDB**.
- **Git**.

3. Installation Steps

Step A: Clone the Repository

Open your terminal and run the following command to download the project from the university GitLab:

```
Bash
$ git clone https://iutbg-gitlab.iutbourg.univ-lyon1.fr/sae-but2/2025-26/openstreetmap-bde/road-trip.git
$ cd road-trip
```

Step B: Install Dependencies

Install the framework core and all backend libraries using Composer:

```
Bash
$ composer install
```

Step C: Local Configuration (app_local.php)

The project uses config/app_local.php to override default settings with your private credentials.

1. **Create the file:** Copy the template (if available) or create a new file at config/app_local.php.
2. **Configure the Database:** Update the Datasources section with your credentials:
 - **Host:** iutbg-lamp.univ-lyon1.fr (or localhost).
 - **Username/Password:** Use your student ID or local credentials.
 - **Database:** The name of your schema.

4. Database & Security

Migrations

Once the database is configured, create the system tables (users, trips, routes):

```
Bash
$ bin/cake migrations migrate
```

Security Salt

Ensure your Security array in `app_local.php` contains a unique salt for password hashing and a `messageKey` for encryption.

5. Launching the App

To start the local development server, run:

```
Bash
$ ./bin/cake server
```

The application will be available at: **`http://localhost:8765`**

6. Troubleshooting & Notes

- **VPN Access:** If using the host `iutbg-lamp.univ-lyon1.fr`, you must be connected to the University VPN.
- **Permissions:** Ensure the `logs/` and `tmp/` folders are writable by the system.