Deployment Plan

Project Name: HealthTracker

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1. Deployment Plan

This document outlines the deployment plan for a Laravel-based appointment management system. The project is deployed in a controlled environment for demonstration purposes. The environment is the developer team's own computers and is configured accordingly.

Deployment Approach:

- This project was developed using **Laravel** and deployed using **Laragon** as the server environment on a local Windows machine.
- **MySQL** was used as the database management system.
- The backend was developed in **Laravel** framework.
- The frontend was developed in **React** library.

Tools Used:

- **Laragon** (for local server environment)
- **PHP** (Laravel framework for backend)
- **React** (JavaScript library for frontend)
- **MySQL** (Database Management System)
- **Composer** (Dependency management in Laragon)
- **Artisan** (Laravel command-line interface)

2. Deployment Process

The deployment process followed by these steps, for the backend:

a. Install Laragon and ensure that MySQL, PHP are correctly configured.
   Set up the virtual host using Laragon's built-in tool.

b. After installing Laragon, start the database connections by pressing the start all button at the bottom left. Then open the terminal of Laragon and clone the repository into the Laragon's project path:

```
cd <path_that_you_installed_laragon>/laragon/www
git clone <repository-url>
```

c. After cloning the project, go to the Database tab supported by Laragon. Then open the session named "Laragon.MySQL" in the tab that opens and enter the database screen. Then delete the database named **health_tracker** if it exists and open a new one with the same name and run the query named "**db.sql**" in the path. Tables will be created in this way. Below is the location of the query that will create tables:

```
cd HealthTracker
ls *.sql
-> db.sql
```

d. For running backend, execute the following commands:

```
cd backend
php artisan migrate
php artisan serve
```

e. Finally, the website can be seen by going to the URL `localhost:8000`.

For the frontend:

a. Change directory to the projects frontend directory:

```
cd ..
cd frontend
npm start
```

b. If it doesn't work, do the necessary installations with the following commands:

```
npm build
```

c. If an error occurs on the page that opens, run the following command:

```
npm install react-router-dom axios react-calendar
```

d. Finally, the frontend of the app in development mode can be seen in URL `localhost:8000`

3. Configuration Plan

- **Database Configuration:** Managed by "**.env**" file
- **Web Server:** Apache (via Laragon)
- **PHP Version:** 8.1 +
- **MySQL Version:** 8.0+

TASK MATRIX

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