Project Documentation: TNGL (Tailwind CSS, Node.js, Flask, MySQL)

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Introduction

TNGL is a web application developed using Tailwind CSS, Node.js, Flask, and MySQL. This documentation provides a step-by-step guide for setting up the development environment and running the application with CRUD operations.

Prerequisites

- Python
- Flask
- Node.js
- XAMPP (MySQL)
- VS Code or any preferred code editor

Installation

Python

Download and install Python from python.org.

Flask

Open CMD/PowerShell and run:

```
pip install Flask

pip install marshmallow-sqlalchemy

pip install flask-marshmallow

pip install mysqlclient

pip install Flask-SQLAlchemy
```

Flask Dependencies

1. Set up a virtual environment following the instructions at Flask Virtual Environment Setup.

2. Open the "TNGL" folder in VS Code.

3. Open the terminal and run:

```
cms\Scripts\activate

flask run
```

XAMPP (MySQL)

1. Download and install XAMPP from apachefriends.org.

2. Start "Apache" and "MySQL" servers from the XAMPP application.

3. Click on "Admin" to access the MySQL localhost.

Node.js

1. Download and install Node.js from nodejs.org.

Node.js Dependencies

1. Open the "cms" folder in VS Code.

2. Open the terminal and run:
    ```
    npm install
    npm i react-router-dom
    ```

Running the Application

1. In the terminal (within the "cms" folder), run:
    ```
    cd dashboard
    npm run start
    ```

Connecting to the Database

1. Ensure XAMPP's "Apache" and "MySQL" servers are running.

2. Access the MySQL db via 'localhost' using XAMPP

Application Usage

1. The application is accessible at `localhost:3000`

2. Perform CRUD operations using the web interface.

Troubleshooting

- If you encounter issues during installation or application run, refer to the official documentation for each component.

- Ensure all dependencies are installed, and servers are running.

Conclusion

Congratulations! You have successfully set up the TNGL web application. Refer to this documentation for assistance during development and CRUD operations.