Developer Documentation for UniHub

Overview

UniHub is a university registration system designed to streamline the process of student registration, course management, and assessments. This document provides developers with guidelines for obtaining the source code, understanding the project structure, and building the software.

1. Obtaining the Source Code

- Repository Location: The source code for UniHub is hosted on GitHub and can be found here: UniHub Repository.
- Cloning the Repository: Use the following command to clone the repository by using Terminal/Command:

```
git clone https://github.com/CS319-23-SP/T11-UniHub.git
```

- Dependencies: Navigate to the project directory and install the required dependencies:

```
pip install -r requirements.txt
```

2. Project Directory Structure

- **App/:** Root directory of the project.
  - **backend/:** Contains core Django application modules.
    - **account/:** Handles user accounts and authentication.
    - **backend/:** Core application configuration and settings.
    - **chat/**: Manages chat functionality between users.
    - **courses/:** Manages course-related data and interactions.

        - **event/:** Handles event creation and management.
        - **instructor/:** Functionality specific to instructors within the application.
        - **pages/:** Handles static and dynamic pages.
        - **portfolio/**: Manages user portfolios.
        - **profiles/**: User profile management.
        - **report/**: Reporting and analytics functionality.
    - **templates/:** HTML templates for the application.
    - **db.sqlite3:** SQLite database file for local development.
    - **manage.py:** Django's command-line utility for administrative tasks.
- **requirements.txt:** Lists the Python dependencies required for the project.
- **Pipfile and Pipfile.lock:** Used by Pipenv to manage project dependencies in a virtual environment.

3. Building the Software

- Environment Setup: Ensure Python 3.8+ and Django 3.1+ are installed.
- Database Setup:
    - Use `python manage.py makemigrations` and `python manage.py migrate` to apply database migrations.
- Development Server:
    - Run `python manage.py runserver` to start the development server.
    - Access the application at `http://127.0.0.1:8000/`.