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Features Implemented for Phase 1

- Feature 1.1
- Feature 1.2
- Feature 1.3

Persistent Storage Design

We are using SQLite database to persist our data, which is managed by Django's ORM. The database schema is defined in the models.py file, and Django automatically handles the creation and migration of tables. Our database includes the tables shown in Figure 1, which includes a customized user model that inherits from AbstractUser. In the User table, we override the default *first_name* and *last_name* fields and introduce a custom *name* field. User has 3 tables: campusmart_user, campusmart_user_groups, and campusmart_user_user_permissions.
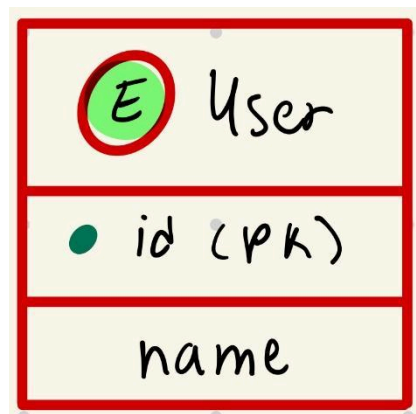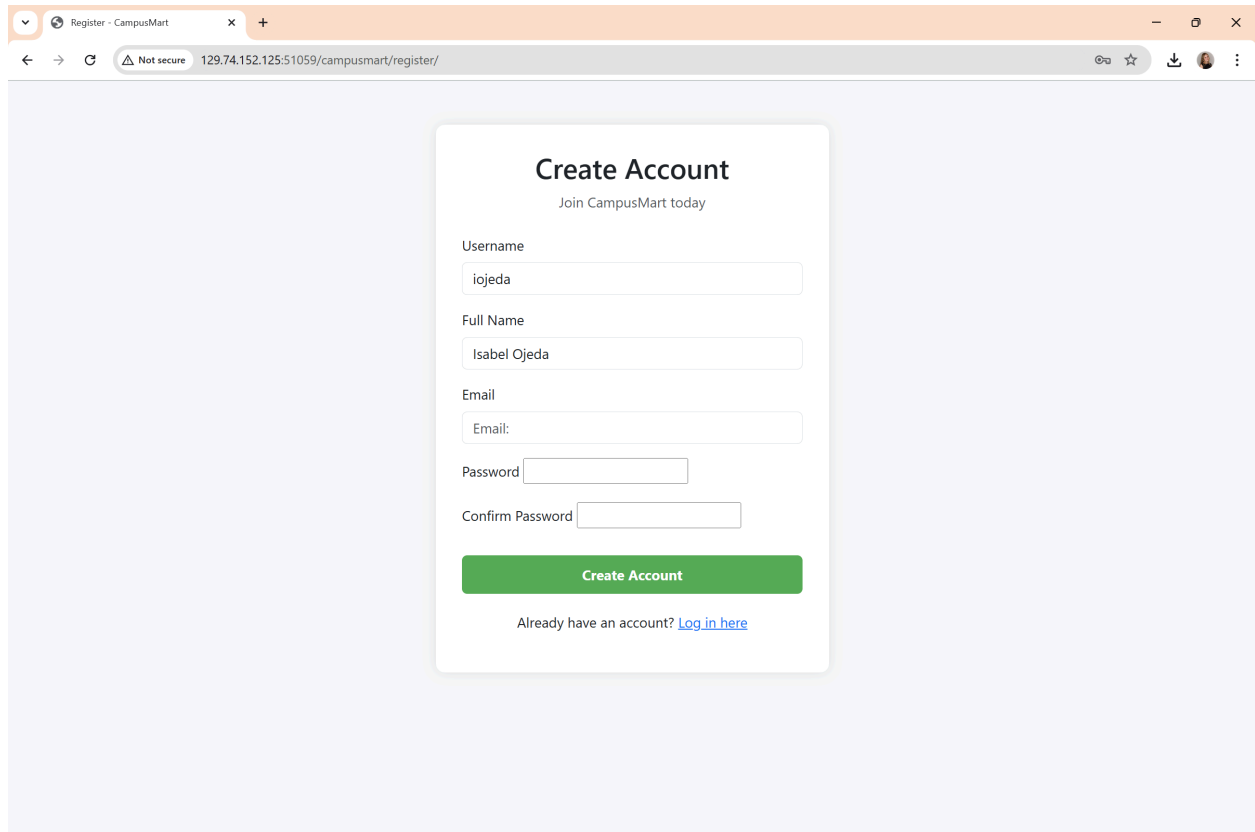

Figure 1 database schema

Demonstration of the Features Implemented for Phase 1

Feature 1.1

Figure 2 shows a screenshot for feature 1.1: Create new User Profile. This feature is implemented in register() view in views.py. It allows users to create a new profile by entering their name, username, email, and password. If the form is valid, it saves the new user to the database, immediately logs them in, and redirects to the homepage.
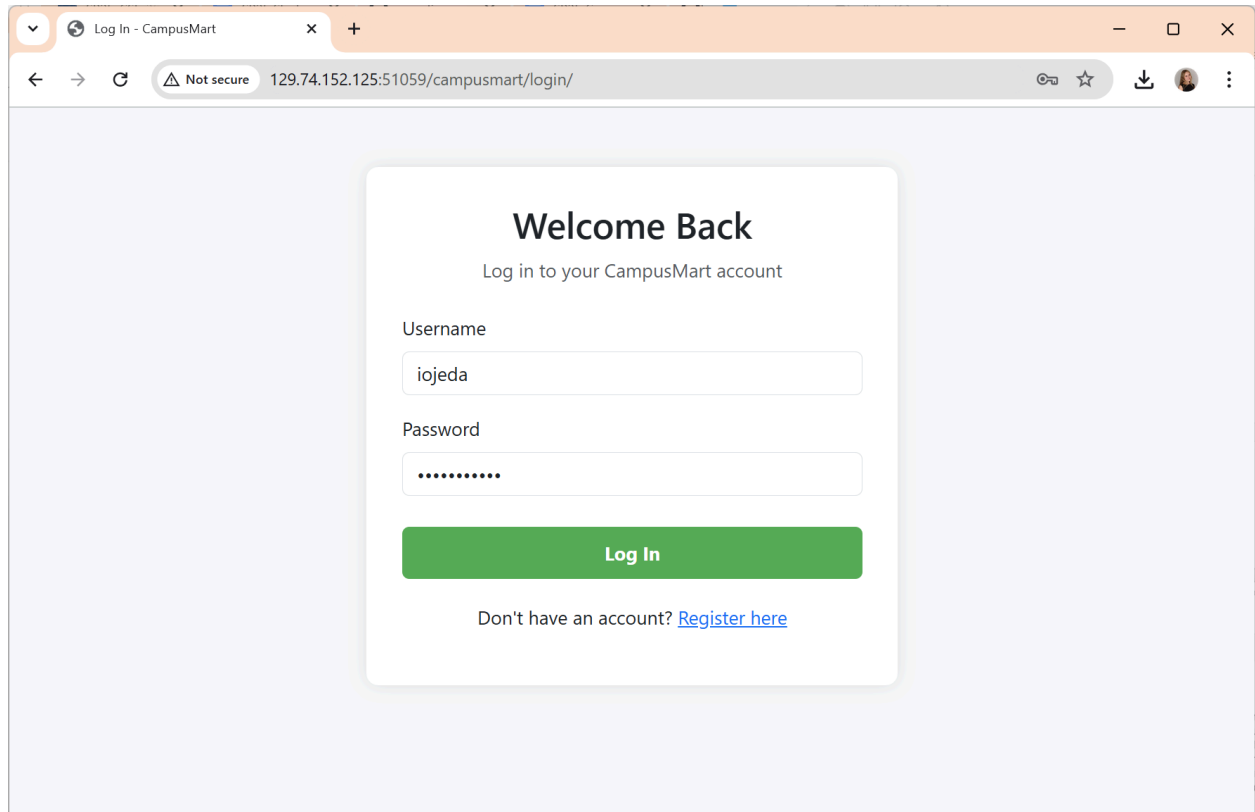

Figure 2 Screenshot for feature 1.1 showing how to register

Feature 1.2

Figure 3 shows a screenshot for feature 1.2: Log-in. The login function uses Django's authentication system in its implementation. If the username and password are valid, the user is logged in. Otherwise, an error message is displayed to the user.

Figure 3 screenshot for feature 1.2 showing how to login

Feature 1.3

Figure 4 shows a screenshot for feature 1.3: Log-out. In this feature, when logout is triggered via a POST request, it clears the user's session and redirects them to the home page.
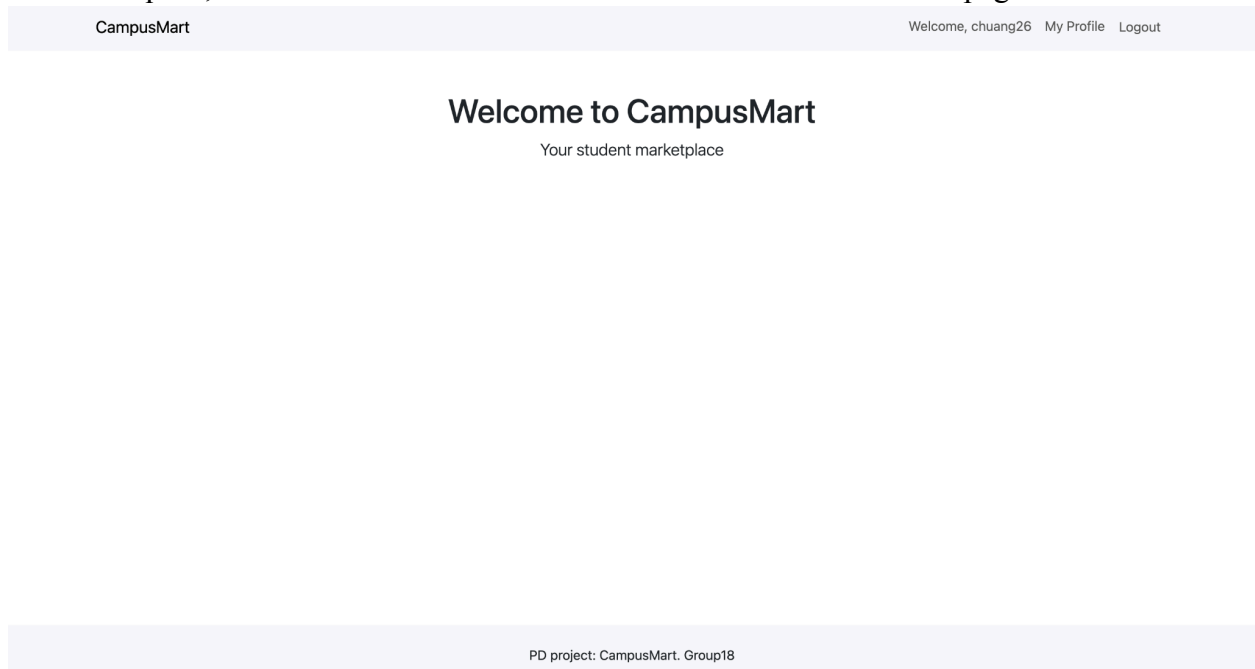
CampusMart   Welcome, chuang26   My Profile   Logout

Welcome to CampusMart
Your student marketplace

PD project: CampusMart. Group18

Figure 4 screenshot for feature 1.3 showing the logout bottom on the top right

CampusMart   Login   Register

Welcome to CampusMart
Your student marketplace
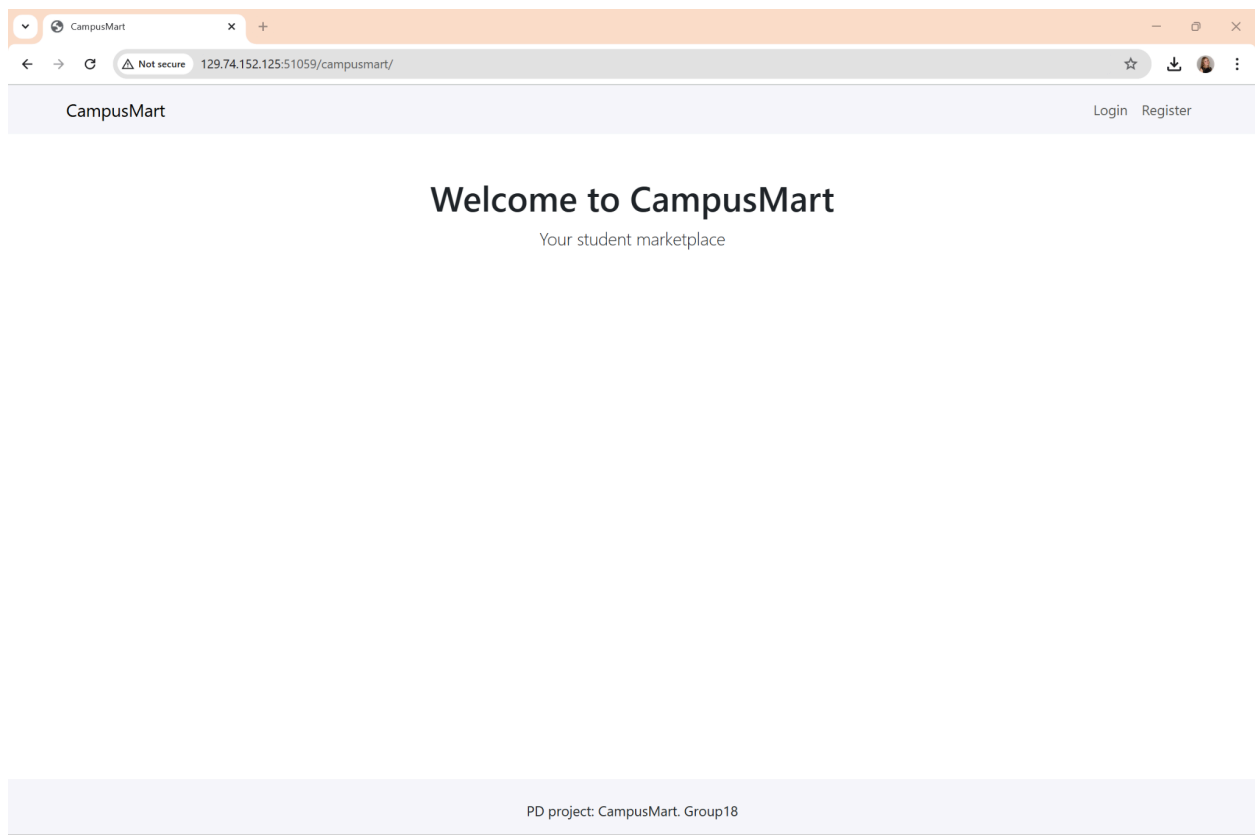
PD project: CampusMart. Group18

Figure 5 screenshot for feature 1.3 showing the user being redirected to the home page after logging out