Teacher's Aid

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Description

Teacher's Aid is a Donation Wish List management tool. This easy to use web application helps educators and schools get the supplies they need for their students to excel.

Features

- User Registration: Login/ Logout
- Account Dashboard
  - Profile Image Upload
  - Update Account
  - Email Forgotten Password
- Add Items
  - Add, Update and Delete
  - Login Required
  - Product Image Upload
  - Items dynamically added to List Page

Planning - User Stories

As a member of the John Hopkins Middle School PTSA, I have seen the need for a donation management system. Family and community members are hesitant to donate to the PTSA, because they want to see firsthand where their money is going. Additionally, with everyone's busy schedule and lack of communication, it is difficult to know what is needed at any given point.

Educator - The Educator needs an efficient way to communicate their classroom needs to parents and the community.

Donors - Donors need a common place to check for updates as to what is needed at the school.

Planning - Database

The database currently has two tables.

The user id field in the Posts table references the primary key in the Users table. The Users table includes a post field to indicate the one-to-many relationship.

Technology Stack

- Python 3.6.5
- Flask 1.0.2
- Jinja2 2.10
- SQLAlchemy 1.2.7
- Flask Extensions: Bcrypt, Bootstrap, Mail, Migrate, Uploads, WTF
- Other Libraries: Pillow, Alembic, itsdangerous

Demo

What I Learned

- How to use the Flask Migrate extension that handles SQLAlchemy database migrations for Flask using Alembic
- How to send a unique token by email to the User to Reset Password
- How to add a Bootstrap Modal to Delete a Post
- How to add Pagination to Posts

What's Next

- Search and Tagging Function
  - To easily search and filter through Wish List items
- E-Commerce Capability
  - Integrate Stripe API to allow users to make purchases
  - Shopping Cart / Shipping / Billing
  - Track purchases
- Add Donor Login and Dashboard
  - Currently only Educator Login and Dashboard
- Expanding Database Tables
- Finish UI / UX designing
  - Add about page
  - Fix any styling issues
  - Add dynamic listing to home page