Final Project
Social Media App
Terp Net

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Project:
- We have implemented Login and Registration forms for users to fulfill in order to user this app (located in app/forms.py)
- Additional Forms:
  We implemented a Search form and an Update Profile form which has a subset of other forms:
    - Update Username form (in the forms.py located in app/forms.py)
    - Update Password form (in the forms.py located in app/forms.py)
    - Update Profile Image form (in the forms.py located in app/forms.py)
    - Update Bio form (in the forms.py located in app/forms.py)
    - Update Email Form (in the forms.py located in app/forms.py)
- **Database**:
  As per requirement we used MongoDB as our database
- **Security**
  We used CSRF-protected forms for all the inputs that are required by the users
- **Blueprints**:
  We have 3 distinct blueprints:
    - Main (in the app directory)
    - Users (in the app/user directory)
    - Social (in the app/social directory)

- **Appearance**:
  For this project we used a combination of CSS(located inside the static folder), HTML (split in the social/template and app/template) and Javascript (inside each HTML file and some in the static folder) to create a more user friendly environment while still maintaining a professional tone. We used different bootstraps and other libraries to create a unique, modern look with a consistent color scheme that is inspired by UMD.

- **Packages**: (Note: some packages are in multiple files)
  - Flask-Uploads
  - Flask-Email (located in app/forms.py)
  - Requests (located in app/social/routes.py)
  - Pillow
  - Flask-PyMongo (located in app/__init__.py)
  - Flask-Bcrypt   (located in app/__init__.py)
  - Flask (located in app/__init__.py)
  - Flask-WTForms (located in app/forms.py)
  - Flask-Login (located in app/main.py
- **Evidence of Usage**:
  - We have created about a dozen test profiles that can be visible.
  - We have created posts on these accounts that are displayed in the feed
  - We've rick-rolled ourselves multiple times to ensure the videos work
  - We've run through all the links and ensured it properly loops/the user cannot get stuck on a page

- **Things Changed from proposal**:
  - The main functionality that was removed from the proposal is the use of Flask-SocketIO. The use of that particular API was too complicated for what we wished to achieve, and as it uses its own database, we were told it violates the requirements of the project.
  - Some of the overall design was tweaked such as how we displayed friends and followers.
  - We added some fun features just to try it out including the marketplace and the videos (we hope you like Rick Astley)

- **Note**:
  - This project does fulfill all the requirements. However, some buttons are for aesthetic purposes only and have no functionality. Most of the buttons work however such as:
    - Marketplace icon (give you the ability to search on Amazon)
    - Videos icon (give you the ability to search vids on Youtube)
    - And many other features

- **Link**: https://replit.com/join/gishitdeth-temesgheniyasu