

The Rabid Squirrels

Project 3: Writeups

Overview

Pawpular is an animal-based social media application. In this application, a user can browse the map for nearby animal services, and find many pictures and posts of local cute animals! Pawpular also includes a feed tab where a user can post media, comments or services of interest. In the services tab, our users can browse local services for their furry (or not so furry) friend. These include walking, grooming and pet-sitting. In the profile tab, a user can see his/her own posts, along with any saved content they find interesting. Lastly, our settings tab gives users options to change their username/password, and chose privacy options.

Team Members

Elisa Coutant
Jillian Hynes
Ryan Mahan
Stephen Ren
Cole Reilly

Github Repository

<https://github.com/Colebeep/Pawpular>

Design Overview

For our application, once the user has put in the correct credentials in the login page, the user gets redirected to the home page, and authentication becomes 'true.' In front of each of the view methods, we added the line `@login_required`, and added the parameter `LoginRequiredMixin` for each class, that way each time a page is requested, it checks if the user is authenticated. If it is true, the page is shown, otherwise nothing from our application is shown. This way is safe because our application checks if the user is authenticated every time a request is made.

On the model side, we used a Profile model which extend on the current django User model and connects with a OneToOne field. This way we can access both the user from the profile model and the profile from the user model. This allows us access to both the profile model fields and the user fields if we only have access to one or the other.

Problems/Successes

One major problem that drew substantial time was the application's logout functionality. There was the issue of having it redirect to the correct page while retaining full functionality of the application or not having the redirect work properly but removing the functionality. We were able to resolve this issue by adding the proper permissions in views.py. Another problem we ran into was regarding merge conflicts in github. As many of us were working on the master branch, whenever changes were made, there was often a conflict with another teammate's changes. This took time to resolve throughout the process of creating the application.

Our team had success in dividing up the necessary work for project 3. When we first began the project, each teammate was assigned a task to contribute to the application. This made time management easier and allowed for a smoother process. In addition, our team gets along very well as a whole so our communication throughout the project was always strong.

Elisa Coutant Individual Write Up

For this project, I first styled the login and logout pages of our application. I then implemented the form for creating a new feed post on our 'feed' tab. I also made some styling changes to the feed post by displaying the title, post, and image in each post that appears on the page. I helped brainstorm for the development of the authentication feature, and changed it so that when a user is logged in he can see the navbar elements, but cannot see them when they are logged out. Overall, I believe I contributed about 15-20% of the projects work.

Jillian Hynes Individual Write Up

For this project, I focused mainly on authentication. One issue we were having was not only redirecting the page to the login screen but also updating the functionality to prevent non-authenticated users from viewing pages they shouldn't have access to. I fixed this issue by requiring authentication to redirect to those pages within views.py. In addition, I also updated some minor bugs in the styling of the login page for our application. I would say I contributed about 15%-20% to this project.

Ryan Mahan Individual Write Up

For this project I worked on moving our user model and merging it with Djangos user model. This required reworking tables on our database and figuring out how to extend the user model and how Django uses it for authentication. I also had to refactor our User model to a Profile model and making sure it changed in the rest of our code as well to ensure it worked. I also made our Profile page work dynamically for the uuid of our profile model. I would say I contributed around 20% to the project.

Stephen Ren Individual Write Up

For this project I contributed anywhere I could. First, with Cole, I set up all of the templates to handle the login logout functionality. I helped Jill and Elisa implement the authentication details such as adding permissions to certain pages and making sure the login routs worked. Moreover, I implemented some scaffolding for the forms.py file. I mainly implemented the create service form for the services page. This required some careful programming, and i regrettably failed to have the app dynamically assign a user for the post, but it works now. Finally I helped Jill fix the logout functionality by adding `LoginRequiredMixin` to the relevant classes.

Cole Reilly Individual Write Up

As an upfront disclaimer, for most of our time spent working on project 3 I had the flu so I was pretty disposed/out of it. Despite that I did put a lot of work into organizing the group and helping allocate work. I updated the navbar to have login/logout functionality and helped with implementing user authentication. In a quiet moment I added a favicon for the website as that had been something that was bothering me. I also implemented the adding mappost form, and as such laid a lot of the groundwork for the other forms to piggyback off of.

All in all I would say I did around 15% of the work, as the flu really took me out of a position to put in more work.