Technological Basics II - Stream A
Sarah Haq
15th of March 2024

Emily Sophie Druve
Student ID: 3048203
emily.s.druve@stud.leuphana.de

Pet-Match App Report

For my project for the Tech Basics II course I decided to continue working on my Tech Basics I project. I still think simplifying the animal adoption process, is necessary to motivate more people to actually adopt pets from shelters, that already urgently need a home instead of shopping from unethical sources. With Pet-Match all of the pets from multiple shelters could be shown in one place, as many different shelters from all over Germany could set up profiles for their animals and the user could just comfortably click through them instead of checking multiple websites from shelters nearby over and over again to keep updated on the pets they are currently offering. This could be the solution, that is urgently needed to reduce the animal suffering that breeding animals to fit trends, mass breeding of pets, and stray animals cause.

Methodology

Something very important to me, was to add accounts with usernames, that save the preferred pet type of a user since I think this makes the MVP of the app more user-friendly. In the first version of Pet-Match, the user would have to choose which pet they were looking for every single time they opened the app. Now the user can just log in and the app remembers, what kind of pet they want and only shows these types of pets, unless the user actively clicks the „Match Other Kinds of Pets“ button.

I also really wanted the option of choosing the pet type to be a dropdown menu of the options. I think having to type it in would be impractical, since this leaves room for the error of the user misspelling an animal or typing an option that doesn’t exist. I looked up how to create a dropdown menu in tkinter on the internet and found a great option on the website https://pythonassets.com/posts/drop-down-list-combobox-in-tk-tkinter/ , which I ended up adding to my code. The dropdown menu is placed in the „sign_up“ definition and can be found in 334 - 339.

I also decided to clean up my code by adding the repeating definitions to the helpers function.

Technological Basics II - Stream A
Sarah Haq
15th of March 2024

Emily Sophie Druve
Student ID: 3048203
emily.s.druve@stud.leuphana.de

Design

The design of my app has not changed a lot, since the Tech Basics I project, since I already spent a lot of time creating this concept last semester, and was still quite happy with it. The color palette has stayed the same since I think it looks very natural, which works great with the topic of animals for the app. The MVP starts with a similar homepage, except for the new buttons, which now lead to the new „Sign Up“ and „Sign In“ pages. From signing in or up the user is taken to the pet's profile pages, which have stayed the same, from the TB I project. If the user is interested in a pet, they can click the „More Info“ button to read some more about the character of the pet on the information pages. Something new in the MVP is that the user can go back to the pet's profile page, by clicking the button on the top left corner, since I think not every user would immediately be set on a decision whether they are interested in a pet or not and some might want to go back and forth. The user still can change to the next pet, or the contact page of the shelter, just like in the Tech Basics I project. Another addition to this MVP is that the name, which the user has entered in the beginning, is automatically used in the contact form and on the page shown when the contact request has been sent. I added this feature to try to make the app feel more personal. The last new button is the „Match Other Kinds of Pets“ button, which allows for curious users to take a look at some other pets, even if they have set their profile, to look for a different kind.

Limitations

One technical difficulty I encountered when creating the code, was using the data put into the dropdown menu. The select options was saved to the CSV file, but from there I could not properly use it again, which made it impossible to display the right pets. I ended up using Chat GPT to figure out a solution, that does not directly pull the needed data from the file, but rather counts through the different lines of data and stops at the right line. The solution I used Chat GPT to figure out can be found in the lines 200 to 207.

My GitHub entry also comes with a pre-created CSV file for the users, since I was one of those students, where the headlines of the columns would get mixed up when having the program create the file from scratch, and I wanted to make absolutely sure this doesn't happen with the final project.

Technological Basics II - Stream A
Sarah Haq
15th of March 2024

Emily Sophie Druve
Student ID: 3048203
emily.s.druve@stud.leuphana.de

Sources

Dropdown List „Combobox“ in Tk (tkinter)

https://pythonassets.com/posts/drop-down-list-combobox-in-tk-tkinter/