Team Number: Group 7

Team Name: The Companions

Team Members:

- Owen Smith: osmith-CU
- Jingqi Liu(JanesyLiu): jili3523
- Mathew Kim: maki9472
- Patrick Taylor: pata0278
- John Hodgen: joho8797

Application Name: Pet-Gen

Application Description:

- This application will exist to help website users in the selection process of a pet name. By combining multiple lists of pre-existing pet names, the user will be able to answer questions to a short quiz to help the random generator deploy more accurate name suggestions. The application will handle the parsing out of these lists depending on user input to quiz questions. These questions will range from things like pet gender to pet behavior.
- The final result of the application should be a small list of 1-5 unique names based on one's questions in the quiz. Therefore this application will provide some resolve to users who are indecisive when it comes to naming their pets. This application can also be used for more than naming real-life pets, it can also be used in creative writing projects or for virtual companions in RPG-like settings.

Vision Statement: This pet name generator is for anybody having trouble finding a name for their pet companion. Unlike other websites, our product offers a fun, engaging quiz that generates a personal name for any pet.

Version Control: https://github.com/CSCI-3308-CU-Boulder/3308Summer21_300_7.git

Development Method:

Link to Jira Board:
https://csci-3308-summer1-300-7.atlassian.net/jira/software/projects/CUB/boards/1

- The development methodology we will be using most resembles the agile hybrid model of development. This involves focusing on the product itself and its functionality. We will be developing the product in increments and will be able to review and test each one before moving on to the next functionality. Having iterations of the product will allow us to always have a working product that we can always create a new iteration for in the future. This methodology will also help with large bugs as each step can be tested in the iteration for usability. The cons from this development strategy (complex, unclear team structure, displaced leadership, etc) usually impact larger teams, that of which we are not.

Communication Plan:

- The group will mainly be communicating through discord, and use discord as a way to coordinate our work uploaded to our shared group Github. We will also be texting each other regularly with any questions or progress that they have done during the sprints.

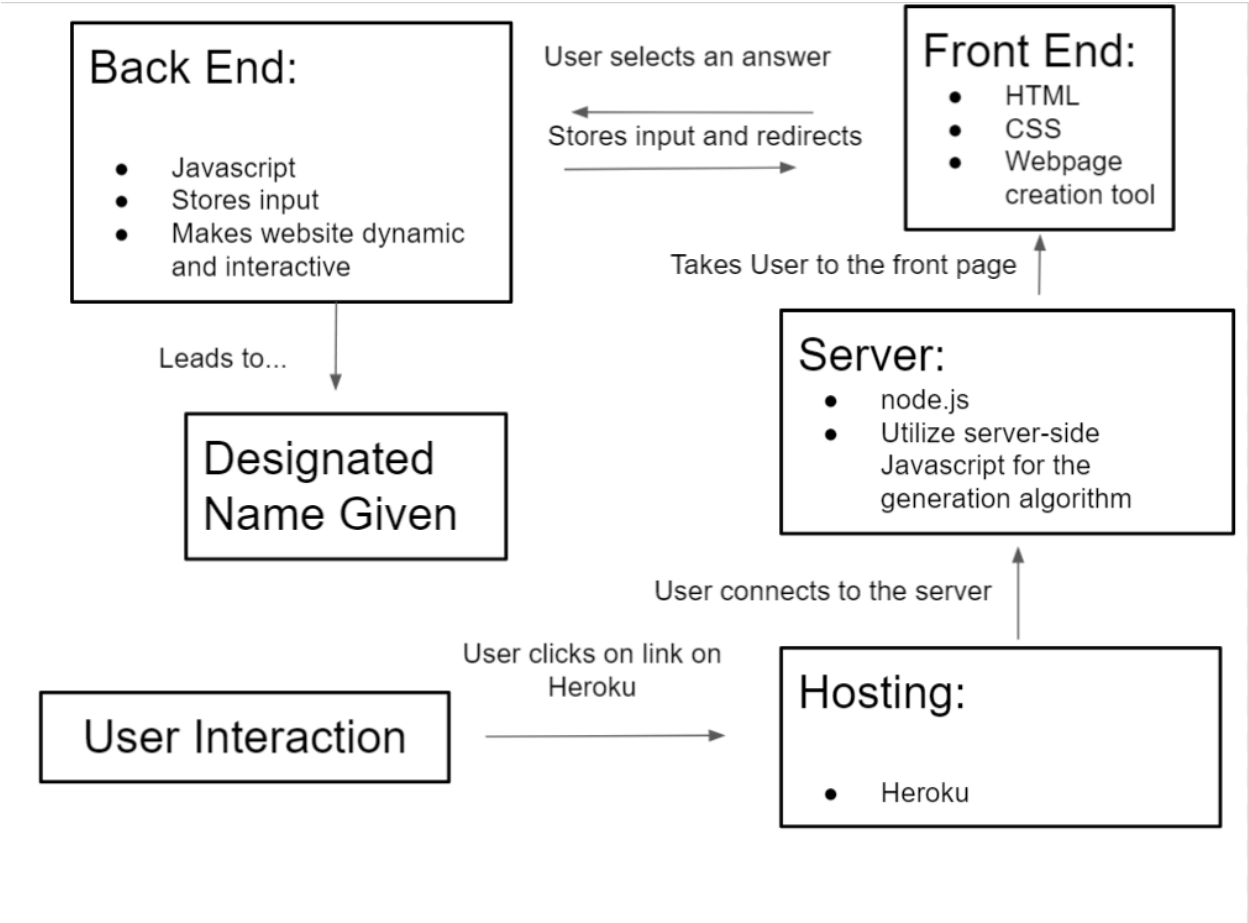
Meeting Plan:

- The group will meet weekly on Wednesdays at 2:30 PM on Discord via voice chat. We will also be meeting weekly on Thursdays at 3:20 PM with our TA on Zoom.

Proposed Architecture Plan:

- The designated name generating program will be almost entirely web-based, using web development tools such as HTML and CSS to create the website. Since this will be a very front-end-heavy project, we intend to focus mostly on getting the most out of our HTML, making a sleek, simple, accessible user interface for answering questions relating to the

pet name. We will likely be using Heroku as our hosting service. On the backend, we will primarily be using Javascript to store our names, inputs, as well as other systems that will utilize a particular set of variables that need to be stored. For our server, we'll likely use node.js. Node.js will allow us to take advantage of server-side scripting, and provide communication between the client and server, permitting us to use javascript answer storage and the algorithm for name generation.



Use Case Diagram:
Refer to the basic use case structure in the diagram below; refer to text examples below for specific use cases.
User - dog owner:

1. Dog owner likes Star Wars and has a rowdy male dog born in the fall and answers questions accordingly. Out of several potential options, the algorithm returns 'Chewbacca' based on question answers.
2. Dog owner likes Lord of the Rings and has a calm male dog born in the winter and answers questions accordingly. Out of several potential options, she is displayed, 'Pippin'.

3. Dog owner likes Lord of the Rings and has a rowdy male dog born in winter and answers questions accordingly. She is displayed the name ‘Blizzard’.
4. Dog owner likes superheroes and has a rowdy female dog born in the fall and answers questions accordingly. She is displayed the name ‘Scarlet’. Dog owner is unhappy with this name, so they press the ‘take quiz again’ button, returning them to the front page. This time, they input that their pop-culture interest in Star Wars, but answer everything else the same. She is provided with the name ‘Luna’.
5. Dog owner has no interest in taking a quiz and instead wants a completely random generation, so they press the ‘generate without quiz’ button, and are returned the name ‘Remington.’

User - cat owner:

1. Cat owner has a female cat born in the summer and is an avid Harry Potter fan. Her Cat is often very clever and likes to rest on her owner whenever she reads a book. The name displayed when she enters her answers on the generator is “Hermione.”
2. A cat owner’s white cat is often getting into fights with other cats when encountered. When the cat owner takes the test, she expresses her cat’s anger issues, and the program returns with the name “Snowball.”
3. A cat’s owner black cat is very calm and likes staring out the window. Her owner inputs that the cat likes to sneak around a lot, and is overall very laid back. The program outputs the name “Shadow.”
4. An owner of a cat is having trouble coming up with the name of his white and brown cat, the cat likes scratching, and the owner is an avid Marvel fan. When expressed in the quiz, the program outputs the name “Logan.”
5. A cat owner is very interested in maths and science. He expresses that his cat is very clever and is very frantic and alone most of the time. Once inputted into the quiz, the program outputs the name “Albert.”

User - creative writer:

1. A writer who enjoys making pieces of literature with heavy action sequences is having trouble coming up with a name for his hamster. His hamster often likes getting into trouble and escapes his cage somehow frequently. He takes the quiz and the quiz returns with the name “Rhino.”
2. A writer knows she wants a name for a dog in her story, but is unsure of the dog’s personality or gender, so she opts to press the “generate without quiz” button, and the name ‘Daisy’ is displayed to her.
3. A writer who is a Marvel fan wants a name for a sweet, female, gecko in her story and answers the questions accordingly. She accidentally presses the back button on her page, thus restarting the quiz. The algorithm is reset such that the repeated inputs will not muddle the result. She takes the quiz according to the aforementioned qualities and is displayed the name “Jean.”

4. A writer who is suffering from writer's block is having second doubts about the name he is about to give his snake. He inputs that his pet is very messy and is honestly more trouble than he's worth. Once he inputs the overall color of the snake and describes his personality as being messy, unorganized, and lazy, the program outputs the name, "Hank."
5. A writer is unsure of what name to give a lazy male mouse in his story, but he knows that he does not want to risk copyright infringement and thus does not want the name to be a glaring pop-culture reference. When he arrives at the pop-culture question, he presses the "skip question" button, thus removing all names under the pop culture umbrella of the algorithm from the potential final name list. He answers the rest of the questions accordingly and is delivered the name, "Cimon."