

Description of Artifact

- This artifact is my project from CS-340. It is a full-stack webpage that displays information about animals in a shelter.
- It was created in February 2024

Inclusion of Artifact

- **This was a great choice for the data structures and algorithms enhancement because there is a lot of data involved. This data needs to be sorted and managed.**
- **I have enhanced the artifact by using a linked list to keep track of the user's activity.**
- **I used a binary search tree to filter through data. I stored each entry from the database in a binary search tree, which allows for efficient searching.**
- **I used a quicksort algorithm to sort the data. The user can sort any of the columns in ascending or descending order.**

Course Outcomes

- **I met the course outcomes in this enhancement**
- **Using algorithmic principles, I was able to solve a problem efficiently and effectively.**
- **I also demonstrated my knowledge of data structures and algorithms.**