

## List of Functions (backend)

### **Insertion of Records**

1. Insertion of Animal Record (Table: Animal)
2. Record Animal Adoption with Customer (Table: Adopt)
3. Record Animal Fostering with Customer (Table: Foster)
4. Record Animal Injuries (Table: Injury)
5. Insertion of Customer Record (Table: Customer)
6. Insertion of Volunteer Record (Table: Volunteer)
7. Record Volunteer's Timings (Table: Volunteer\_Timings)
8. Record Volunteer taking care of Animal (Table: Takes\_Care)
9. Insertion of Donation Record (Table: Donations)
10. Record Donation spent on Animal (Table: Spending)

*During the Insertion of new records, the program should generate unique key attributes where required, I.e 1,5,6,9*

### **Searching of Records**

11. search of Animal Record (Table: Animal)
12. search Record of Animal Adoption with Customer (Table: Adopt)
13. search Record of Animal Fostering with Customer (Table: Foster)
14. search Record of Animal Injuries (Table: Injury)
15. search of Customer Record (Table: Customer)
16. search of Volunteer Record (Table: Volunteer)
17. search Record of Volunteer's Timings (Table: Volunteer\_Timings)
18. search Record of Volunteer taking care of Animal (Table: Takes\_Care)
19. search of Donation Record (Table: Donations)
20. search record of donation spent on animal (Table: Spending)

*a search feature should be implemented to find a specific record, if the record does not have key attributes, then the search feature should be based of other attributes and should show the result in the order of recently modified/Inserted first. Tables with Key attributes can also be searched with this method*

### **Modification of Records**

21. modification of Animal Record (Table: Animal)
22. modify Record of Animal Adoption with Customer (Table: Adopt)
23. ~~modify Record of Animal Fostering with Customer (Table: Foster)~~

24. modify Record of Animal Injuries (Table: Injury)
25. modification of Customer Record (Table: Customer)
26. modification of Volunteer Record (Table: Volunteer)
27. ~~modify Record of Volunteer's Timings (Table: Volunteer\_Timings)~~
28. ~~modify Record of Volunteer taking care of Animal (Table: Takes\_Care)~~
29. modification of Donation Record (Table: Donations)
30. ~~modify Record of Donation spent on Animal (Table: Spending)~~

*some records cannot be modified because they dont have primary key*

### **Deletion of Records**

31. Delete Animal from the database and its subsequent Adoption Fostering and Injury Records, other records involving this animal should not be deleted  
( Delete: Animal  
Cascade: Adopt, Foster, Injury  
Set Default/Null: Spending, Takes\_Care )
32. Delete Customer Record but KEEP Fostering and Adoption Records  
( Delete: Customer  
Set Default/Null: Foster, Adopt)
33. Delete Volunteer Record and its subsequent Volunteer\_timings record but keep other records involving the volunteer  
( Delete: Volunteer  
Cascade: Volunteer\_Timings  
Set Default/NULL: Takes\_Care)
34. Delete Donation Record but KEEP the spending record  
( Delete: Donation  
Set Default/NULL: Spending )
35. Delete Spending Record
36. Delete Takes\_Care Record
37. Delete Injury Record
38. Delete Adoption Record
39. Delete Foster Record
40. Delete Volunteer Timing Record

*from 35-40 Deletion of these records wont affect any other table*

41. Deletion of Both Donation and Animal record will result in the deletion of the related Spending record
42. Deletion of Both Volunteer and Animal record will result in the deletion of the related Takes\_Care record

### **Viewing Data**

43. Display List of Animal Records from this list a record can be picked for viewing in 47
44. Display List of Customer Records from this list a record can be picked for viewing in 48
45. Display List of Volunteer Records from this list a record can be picked for viewing in 49
46. Display List of Donation Records from this list a record can be picked for viewing in 50
47. Display An Animal Record and show its corresponding Adopt, Foster, Spending, Takes\_Care and Injury Records also Show the total time it was taken care of by Any Volunteer
48. Display A Customer Record and show corresponding Adopt and Foster Records
49. Display A Volunteer Record and show corresponding Volunteer\_Timing and Takes\_Care Records, also show the total Hours of Volunteer\_Timing and The Total time the volunteer spent taking care of an Individual Animal
50. Display Donation Record and show corresponding Spending Records

#### **Other Function**

51. When the program is first launched, create a database and tables also prompt user to create a password and store it
52. When the program starts if the Database and Password is saved, prompt user to Input the password and give access.

#### **New Functions**

- 53.