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Systems I

11/30/22

Positively Pets Introduction

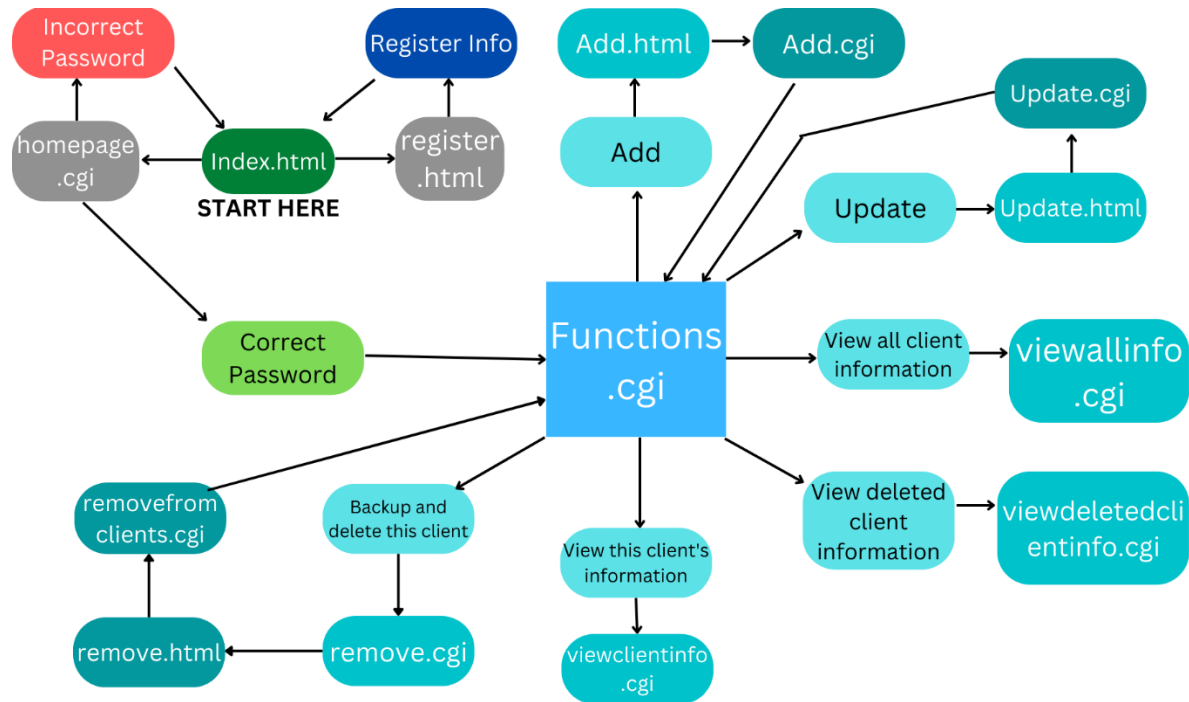
For this assignment I designed an application for my mother's dog grooming business. Most of the content in the application was provided by her and what would be useful to her. The application is a database-based application that keeps track of information on clients that come in and out of the door. The information about clients is directly related to her collection of paper-based information forms.

The program utilizes both cgi and html files that communicate back and forth with each other to make appropriate changes to the database. The program also utilizes three different tables, one for the user which includes information about the user. The second table is a table with the client's and their pet's information. The last table is used as a backup table for deleted clients to keep them as a permanent record if deleting a client was a mistake, so any information about a previous client is not permanently lost.

The architecture follows that of a simple 3-tier architecture. The layers include the presentation layer, application layer, and database layer. The presentation layer of my application is mostly handled by html files, although a few utilize cgi files. The application layer is primarily cgi files that process data from the presentation layer. Finally, the database layer will store the information processed by the application layer, so the user has access to that data in the future.

How to use the Application

The structure of the application is best described by using a flowchart as the application has many different functions.



The application must start at index.html, this is the login area where the user can login or register their account. From there it moves to my functions page where the user can choose between several different functions. The arrows exiting functions.cgi in black text are the different kinds of functions the application provides. As you can see, the application will loop back to the functions page until the user exits the application or returns manually.

Tables

1. 01757392Users for keeping user registration usernames and passwords.

```
mysql> DESC 01757392Users;
```

Field	Type	Null	Key	Default	Extra
username	varchar(30)	NO		NULL	
password	varchar(30)	NO		NULL	
email	varchar(30)	NO		NULL	
firstName	varchar(30)	NO		NULL	
lastName	varchar(30)	NO		NULL	
streetAddress	varchar(30)	NO		NULL	
city	varchar(30)	NO		NULL	
state	varchar(30)	NO		NULL	
zipCode	varchar(30)	NO		NULL	
country	varchar(30)	NO		NULL	

2. 01757392Clients for keeping information on clients.

```
mysql> DESC 01757392Clients;
```

Field	Type	Null	Key	Default	Extra
firstName	varchar(30)	NO		NULL	
lastName	varchar(30)	NO		NULL	
phoneNumber	varchar(30)	NO		NULL	
address	varchar(30)	NO		NULL	
petName	varchar(30)	NO		NULL	
breed	varchar(30)	NO		NULL	
age	varchar(30)	NO		NULL	
allergies	varchar(30)	NO		NULL	
size	varchar(30)	NO		NULL	
groomedBefore	varchar(30)	NO		NULL	
generalBehavior	varchar(30)	NO		NULL	
cageShy	varchar(30)	NO		NULL	
vet	varchar(30)	NO		NULL	

13 rows in set (0.01 sec)

- 01757392deletedClients for keeping information of deleted clients.

```
mysql> DESC 01757392deletedClients;
```

Field	Type	Null	Key	Default	Extra
firstName	varchar(30)	NO		NULL	
lastName	varchar(30)	NO		NULL	
phoneNumber	varchar(30)	NO		NULL	
address	varchar(30)	NO		NULL	
petName	varchar(30)	NO		NULL	
breed	varchar(30)	NO		NULL	
age	varchar(30)	NO		NULL	
allergies	varchar(30)	NO		NULL	
size	varchar(30)	NO		NULL	
groomedBefore	varchar(30)	NO		NULL	
generalBehavior	varchar(30)	NO		NULL	
cageShy	varchar(30)	NO		NULL	
vet	varchar(30)	NO		NULL	

Works Cited

The theme and buttons were provided by Dr. Q in one of the four login forms/themes he provided. All of the code is referenced by the owner.

W3Schools was used several times throughout this project for html code and syntax. This includes the redirect function, which differs from the one provided in class.