Runtime Terror

Group Members: Ozzie Loewen, Ami Khalsa, Brad Starnes, & Saurav Pawar

IDEA

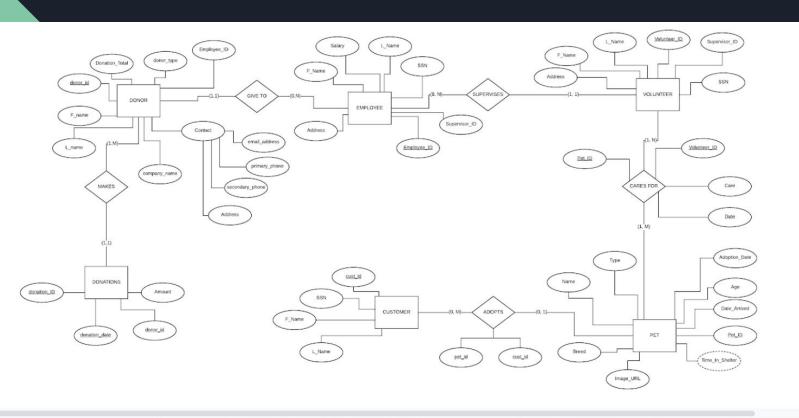
Animal Shelter

- Dynamic interactions between departments
- Central Dashboard for Employees to Process Operations
- Simple UI, User-Friendly-ish
 - (No Console Applications, It's 2020 USE Cloud User Focused applications)

Team Member & Roles

Ozzie Loewen	Web Developer / Scrum Master / Project Lead
Ami Khalsa	MySQL Developer / Research Development
Brad Starnes	Web Developer / SQL / Project Architecture
Saurav Pawar	MySQL Developer / Project Architecture
Kendal Bingham	Product Owner

ER DIAGRAM



Relational Algebra

- Relational Algebra
- Database

Sum of donations grouped by donor

Π Sum(Amount), Donor (Donation)

Number of pets adopted in X year

σ Pet ID and Adoption date = 'mm-dd-yyyy' (Pets)

Volunteers who are also Employees

σ Volunteers.SSN = Employee.SSN (Volunteers X

Employee)

Donations received in X month

σ Donation date = 'mm-dd-yyyy' (Donation)

Pets who are in shelter but not adopted

 σ Pets.Pet ID = Customer.Pet ID (Pets - Customer)

Tables & Constraints

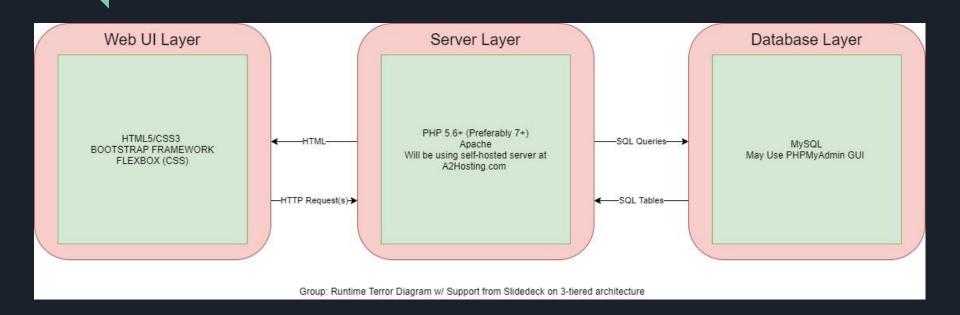
- Primary & Foreign
 Key Restraints
- Delimiters
- SSN & Salary
 Constraints

```
CREATE TABLE 'Pet' (
    'Pet ID'
                         INT NOT NULL AUTO INCREMENT,
    `Date Arrived`
                         DATE NOT NULL.
    'Time In Shelter'
                         INT,
    'Image URL'
                         VARCHAR(150),
    'Breed'
                         Varchar(30),
    Type`
                         VARCHAR(25),
     Name`
                         VARCHAR(25),
    `Gender`
                         VARCHAR(6),
    CONSTRAINT 'Pet_PK' PRIMARY KEY ('Pet_ID')
);
```

```
#Should not allow insertion of care where
#date is later than the current date
DELIMITER //
CREATE TRIGGER Valid_Pet_Volunteer_Date_Check
BEFORE INSERT ON Pet_Volunteer
FOR EACH ROW
BEGIN

IF NEW.Date > CURRENT_DATE()
THEN
SET NEW.Date = NULL;
END IF;
END//
DELIMITER;
```

Project Architecture



Database Security

require_once('./includes/dbconnect.php');



Name	
config.ini	In ./includes/
dbconnect.php	directory

```
3
4
5 • SELECT * FROM
6 C5470RUNTIMETERROR.Employee;
```

```
// Try and connect to the database, if a connection has not been established yet
if(!isset($connection)) {
    // Load configuration as an array. Use the actual location of your configuration file
    $config = parse_ini_file( filename: 'config.ini');
    $connection = mysqli_connect($config['servername'],$config['username'],$config['password'],$config['dbname']);
}
```

Example Queries

```
// Querying the table
$sql_of_q1 = "SELECT Image_URL, Date_Arrived, ROUND(DATEDIFF(Date_Arrived, NOW())/-1, 0)
as Time_In_Shelter, Breed, Name, Gender FROM Pet WHERE Type = 'Dog';";
```

First name:	
Last name:	
Company Name:	
Employee Connection	/ 1 Angelica Lewis
no o ecolo e con en con	2 Steven Gill
Donor Type: Persona	3 Maria Nunez
71	4 Shirley Jones
Submit	5 Sarah Mccormick
	6 Laverne Payne
	7 Kelli Barnett
	8 Dwight Dawson
	9 Guy Fuller
	10 Pat Walters
	11 Bonnie Tucker
	12 Alice Malone
	13 Rosemary Hanson
	14 Blake Gray
	15 Dewey Lawson
	16 Rachel Guerrero
	17 Roberta Bryan
	18 Dustin Hamilton
	19 Gerald Gonzales
	20 Toby Brooks
	21 Stewart Parks
	22 Emma Steele
	23 Boyd Maxwell
	24 Tony Freeman
	25 Austin Collier

User Interface Tour

~~ View Live Demo! ~~

Future Scope

- Announcements Section
- Display Total Donations YTD in Main Dashboard
- Use Date Picker instead of text input box for dates
- Volunteer & Employee Individual View
 - Page where you can see personal details on those volunteers and employees
- Ability to Delete Donations & Adoptions (In case of user error)
 - We'd want to log these in our testing log
- Pre-filled Breeds for Cats & Dogs

Questions?

We know you have them or constructive criticism?