



# PET SITTER RESPONSE TRACKING SYSTEM

TEAM 8

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# CASE STUDY

**Pet Sitter Response Tracking System (PSIRT)** is a system that keeps a record of services provided for dogs and cats. When a pet sitter service is requested, it is assigned a unique identifier and stored in a database. For each service, the system keeps track of the order number, the type of order (chosen from a list that may change dynamically), the date it was created, the service state (which can be 'pending,' 'assigned,' or 'completed'), and a list of free-form comments. Each comment is associated with the name of the responders who wrote it.

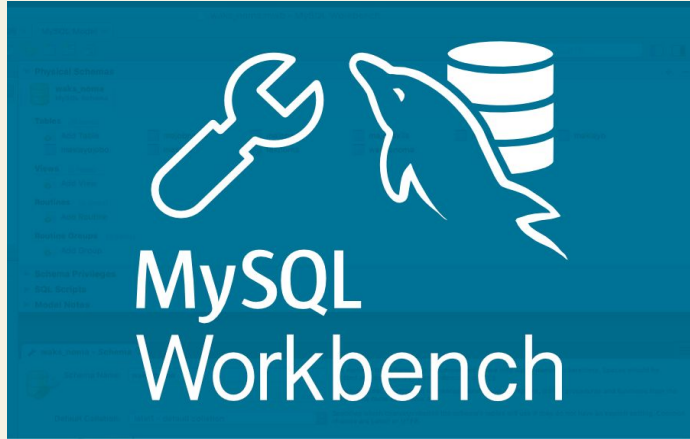
In addition, each order could be any number of people (last name, first name, role, phone, email address) and IP addresses. The pet sitter service responders can easily query the database by order number and get a detailed report of the entire history of a given service.

The PSIRT system has three types of responders: clients, sitters, and handlers. Clients create and manage requests, and they can also add comments to the service. Handlers recommend pet sitters to clients, who can either accept or deny service requests. Once a service is accepted, the order status is updated to "Assigned," and the sitter gains access to the client's contact information to add a service report. After the service is completed, the sitter updates the order status, and the client confirms it again. The order status then changes to "Completed," and the order is archived.

Free-form comments must be sorted from the most recent post on top to the oldest on the bottom.

All updates to a pet sitter service log are recorded as free-form comments on the order. And, it is important to note that all system use is subject to authentication via an external single sign-on system.

## Tools used



XAMPP



git

# NORMALIZATION TABLES

UNF

UserID	Last name	First name	Role	Phone	Email address	Password	OrderID	ServiceState	ClientID	HandlerID	SitterID	Order Date	Due Date	CommentID	Order Number	Responder ID	Comment Text	Comment Date	User ID	Ip address	OrderID	Animal Type	is_sit_at_home	is_walk	is_groom
--------	-----------	------------	------	-------	---------------	----------	---------	--------------	----------	-----------	----------	------------	----------	-----------	--------------	--------------	--------------	--------------	---------	------------	---------	-------------	----------------	---------	----------

1NF

UserID	Last name	First name	Role	Phone	Email address	Password	OrderID	ServiceState	ClientID	HandlerID	SitterID	Order Date	Due Date	CommentID	Responder ID	Comment Text	Comment Date	Ip address	Animal Type	is_sit_at_home	is_walk	is_groom
--------	-----------	------------	------	-------	---------------	----------	---------	--------------	----------	-----------	----------	------------	----------	-----------	--------------	--------------	--------------	------------	-------------	----------------	---------	----------

2NF

User table

UserID	Last name	First name	Role	Phone	Email address	Password
--------	-----------	------------	------	-------	---------------	----------

Order table

OrderID	ServiceState	ClientID	HandlerID	SitterID	Order date	Due date
---------	--------------	----------	-----------	----------	------------	----------

Comment table

CommentID	OrderID	UserID	Comment text	Comment date
-----------	---------	--------	--------------	--------------

UserIP table

UserID	Ip address
--------	------------

Animal table

OrderID	Animal Type	is_sit_at_home	is_walk	is_groom
---------	-------------	----------------	---------	----------

3NF

User table

UserID	Last name	First name	Role	Phone	Email address	Password
--------	-----------	------------	------	-------	---------------	----------

Order table

OrderID	ServiceState	ClientID	HandlerID	SitterID	Order date	Due date
---------	--------------	----------	-----------	----------	------------	----------

Comment table

CommentID	OrderID	UserID	Comment text	Comment date
-----------	---------	--------	--------------	--------------

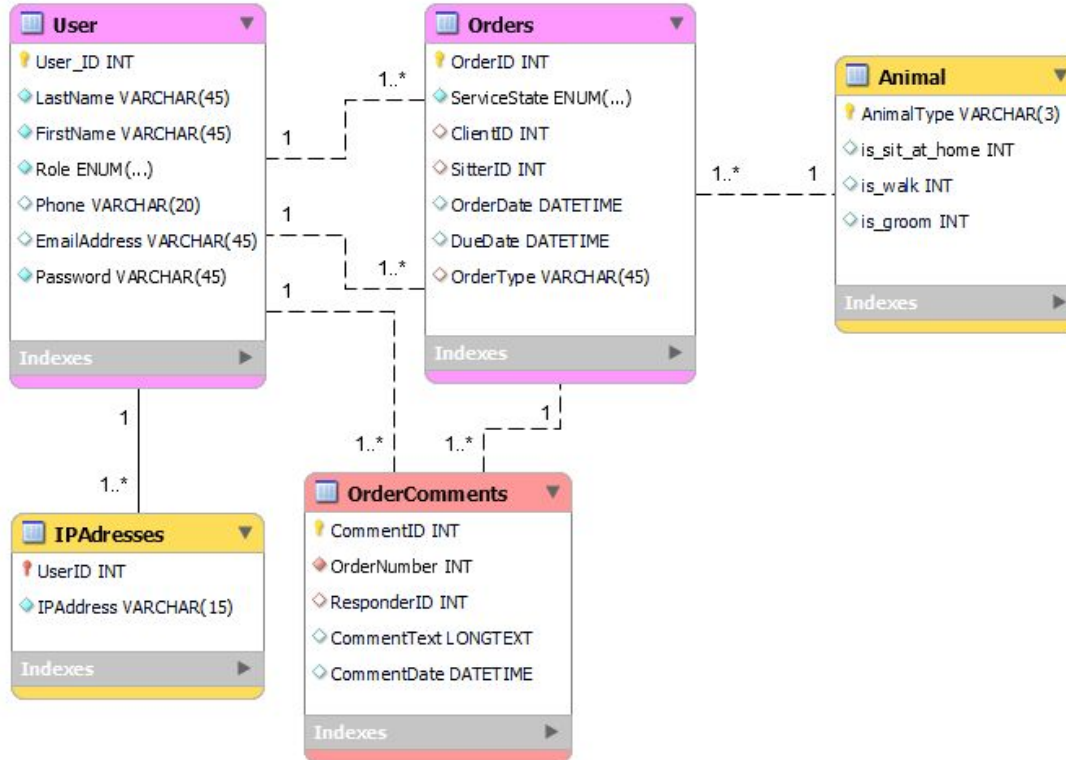
UserIP table

UserID	Ip address
--------	------------

Animal table

OrderID	Animal Type	is_sit_at_home	is_walk	is_groom
---------	-------------	----------------	---------	----------

# EER DIAGRAM





# User table

```
MariaDB [PSIRT]> DESCRIBE User;
```

Field	Type	Null	Key	Default	Extra
UserID	int(11)	NO	PRI	NULL	auto_increment
LastName	varchar(45)	NO		NULL	
FirstName	varchar(45)	NO		NULL	
Role	enum('client','sitter','handler')	NO		NULL	
Phone	varchar(20)	YES		NULL	
EmailAddress	varchar(45)	YES		NULL	
Password	varchar(45)	NO		NULL	

```
7 rows in set (0.007 sec)
```



## IP addresses table

```
MariaDB [PSIRT]> DESCRIBE IP_Addresses;
```

Field	Type	Null	Key	Default	Extra
UserID	int(11)	NO	PRI	NULL	
IPAddress	varchar(15)	YES		NULL	

```
2 rows in set (0.005 sec)
```



# Orders

```
MariaDB [PSIRT]> DESCRIBE Orders;
```

Field	Type	Null	Key	Default	Extra
OrderID	int(11)	NO	PRI	NULL	auto_increment
ServiceState	enum('pending','assigned','completed')	NO		pending	
ClientID	int(11)	YES	MUL	NULL	
SitterID	int(11)	YES	MUL	NULL	
OrderDate	datetime	YES		NULL	
DueDate	datetime	YES		NULL	

```
7 rows in set (0.005 sec)
```



# Animal => Dog/Cat

```
MariaDB [PSIRT]> DESCRIBE ANIMAL;
```

Field	Type	Null	Key	Default	Extra
OrderID	int(11)	NO	PRI	NULL	
AnimalType	varchar(3)	NO		NULL	
is_sit_at_home	int(11)	YES		0	
is_walk	int(11)	YES		0	
is_groom	int(11)	YES		0	

```
5 rows in set (0.012 sec)
```



# Order Comments

```
MariaDB [PSIRT]> DESCRIBE Order_Comments;
```

Field	Type	Null	Key	Default	Extra
CommentID	int(11)	NO	PRI	NULL	auto_increment
OrderNumber	int(11)	NO	MUL	NULL	
ResponderID	int(11)	YES	MUL	NULL	
CommentText	longtext	YES		NULL	
CommentDate	datetime	YES		current_timestamp()	

```
5 rows in set (0.004 sec)
```



# IP Address retrieval

```
// Get the user's IP address (IPv4)
$userIP = getHostByName(getHostName());

// Extract IPv4 address if it's IPv6-mapped IPv4 address
if (filter_var($userIP, FILTER_VALIDATE_IP, FILTER_FLAG_IPV6)) {
    $userIP = trim(shell_exec("host -t A " . escapeshellarg($userIP)));
    $userIP = substr($userIP, strpos($userIP, ' ') + 1);
}
```

# Session flush for safety

```
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST['signOut'])) {  
    // Unset all session variables  
    $_SESSION = array();  
  
    // Destroy the session  
    session_destroy();  
  
    // Redirect to the login page  
    header("Location: ../../mainPage.html");  
    exit();  
}  
?>
```

