domain.The objective of normalizing a table is to remove its repeating groups and ensure that allentries of the resulting table have at most single value.

Second Normal Form

A table is said to be second Normal Form (2NF), when it is in 1NF and every attribute in record is functionally dependent upon the whole key, and not just a part of the key.

Third Normal Form

A table is in third Normal Form (3NF), when it is in 2NF and every non-key attribute is functionally dependent on just the primary key.

4.3.2 TABLE STRUCTURE

Table is a collection of complete details about a particular subject. These data are saved inrows and Columns. The data of each Row are different units. Hence, rows are called RECORDS and Columns of each row are called FIELDS.Data is stored in tables, which is available in the backend the items and data, which are entered in the input, form id directly stored in this table using linking of database. We can link more than one table to input forms. We can collect the details from the different tables to display on the output.

There are mainly 9 tables in the project. They are,

1 tbl_admin_login

2 tbl_customer

3 tbl_animal_category

4 tbl_animal_post

5 tbl_animal_request

6 tbl_plan

7 tbl_district

8 tbl_location

9 tbl_customer_plan

1. Table:**tbl_admin_login**

Description: This table is used to store the details of admin

Table 4.1 tbl_admin_login

Field name	Data Type	Constraints	Description
Username	varchar(20)	Unique, Primary Key	Unique username of Admin
Password	varchar(20)	Not Null	Password of admin

2. Table: **tbl_customer**

Description: This table is used to store the details of customer

Table 4.2 tbl_customer

Field Name	Data Type	Constraints	Descriprtion
Customer_id	int	Primary key	Unique id of a customer
Name	varchar(20)	Not Null	Full name of the customer
House Name	varchar(30)	Not Null	Home name of the customer

Gender	boolean	Not Null	Gender of the customer
Pincode	int	Not Null	Pincode of the customer
Email	varchar(50)	Not Null	Email id of customer
Aadhar Number	int	Foreign Key	Aadhar number of customers
Username	varchar(20)	Not Null	Username of customer
Password	varchar(20)	Not Null	Password of the customer
Location_id	int	Not Null	Location id of the customer
Dist_id	int	Not Null	District id of the customer
Contact Number	int	Not Null	Contact number of customers
Plan id	int	Not Null	Plan id of the customers
Place	varchar(20)	Not Null	Place of the customers

3.Table: **tbl_animal_category**

Description: This table is used to store the details of animal.

Table 4.3tbl_animal_category

Field Name	Data Type	Constraints	Description
Animal_id	int	Primary Key	Id of the animal
Animal_name	varchar(20)	Not Null	Name of the animal
Description	varchar(150)	Not Null	Description of the animal
Image	varchar(100)	Not Null	Image of the animal

4.Table: **tbl_animal_post**

Description: This table is used to store the category details of animal.

Table 4.4tbl_animal_post

Field Name	**Data Type**	**Constraints**	**Description**
Animalpost_id	int	Primary Key,AUTO INCREMENT	Animal post id of the animal
Animal_id	int	Foreign Key	Id of the animal
Post description	varchar(150)	Not Null	Post description of animal
Animal_image	varchar(150)	Not null	Image of the animal
Animal_weight	varchar(150)	Not null	Weight of the animal
Sell_amount	double	Notnull	Selling amount of animal
Available_count	int	Not null	Available count of animal
Postdate	date	Not null	Date of animal post
Customer_id	int	Foreign Key	Id of customer
Post_status	varchar(50)	Not null	Post status of animal

5. Table: **tbl_animal_request**

Description: This table is used to store the details of sales.

Table 4.5 **tbl_animal_request**

Request status	varchar(20)	Not Null	Status of requested animal
Request_count	int (10)	Not Null	Count of requested animal

6.Table: **tbl_plan**

Description: This table is used to store the details of plan.

Table 4.6 tbl_plan

Field Name	Data Type	Constraints	Description
Plan_id	int	Primary Key, AUTO INCREMENT	Id of the plan
Plan_name	varchar(150)	Not null	Name of the plan
Plan_duration	int (50)	Not Null	Duration of plan
Plan_description	varchar(150)	Not Null	Description about plan
Plan_amount	double	Not null	Amount of plan

7.Table: **tbl_district**

Description: This table is used to store the details of district.

Table 4.7tbl_district

Field Name	Data Type	Constraints	Description
Dist_id	int	Primary Key, AUTO INCREMENT	Unique id of district
Dist_name	varchar(20)	Not Null	Name of ditrict

8.Table: **tbl_location**

Description: This table is used to store the details of location

Table 4.8 tbl_location

Field Name	Data Type	Constraints	Description
Location_id	int	Primary key, AUTO INCREMENT	Unique id of the location

9.Table: **tbl_animal_request**

Description: This table is used to store the details of sales.

Table 4.9 tbl_animal_request

Field Name	Data Type	Constraints	Description
Request_id	int	Primary Key,AUTO INCREMENT	Id of the request
animalpost_id	int	Foregin Key	Post id of animal
Customer_id	int	Foregin Key	Id of customer
Requestdate	date	Not Null	Date of animal request

Dist_id	int	Foreign Key	District id of the locaton
Location_name	varchar(50)	Not Null	Name of the location
Pinode	int (10)	Not null	Pincode

10.Table: **tbl_cutomer_plan**

Description: Plan details of the customer.

Table 4.10 tbl_customer_plan

Field Name	**Data Type**	**Constraints**	**Description**
Customerplan_id	int	Primary Key, AUTO INCREMENT	Unique id of the planthe taken by user
Plan_id	int	Foreign Key	Id of the plan
Customer_id	int	Foreign Key	Id of the customer
Planactivation_date	date	Not Null	Date of the activation
Planend_date	date	Not Null	Date of the ending ofplan
Amount	double	Not Null	Amount of the Plan
Status	varchar (10)	Not Null	Status of the Plan

4.3.3 DATA FLOW DIAGRAM

4.3.3.1 INTODUCTION TO DATA FLOW DIAGRAMS

Data Flow Diagram is a network that describes the flow of data and processes that change, or transform, data throughout the system. This network is constructed by use a set of symbolsthat do not imply a physical implementation. It is a graphical tool for structured