

FINAL PROJECT REPORT

Course Title: Software Engineering

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Section: 04

Project Title: ProtectPets

Group Details:

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Submitted To:

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ABSTRACT

"ProtectPets" is a website that will take rescue posts from users and all users can see those posts. This is a website for animal welfare (**Rollin, 1993**). In the pandemic of covid-19, people do not focus on homeless animals. Due to the scare of covid-19, without emergency people don't come outside. So people can help those homeless animals by giving a post. This website is also helpful after the pandemic of covid-19. Helping those homeless animals is an important ethical issue (**Fraser, 1997**).

1) INTRODUCTION

Animals have an important role in the ecosystem (**Naiman, 1988**). Nowadays there are not sufficient homes for all the animals that are born every year. In our regular life, we see a lot of homeless animal lives here and there. They don't have enough living space, food, and treatment. We have to save them for our ecosystem. That's why we think about creating a website to help those homeless animals (**Whay, May 2007**). Interested peoples can rescue those homeless animals through our website and application. In our website and application, we are trying to give many features that are helpful for animals. Features are rescue (news & request), Pet Vet (address & contact, medicine, register and login, information (how to take care pets, vaccine information), about pet food, about pet vaccine, study information, volunteer and thanks page.

2) BACKGROUND

- We are in the age of the internet now. Like everything else, people now look into the internet to adopt or to seek help for rescuing animals.
- From the beginning of the '10s different organizations and animal rights activists started taking initiatives in our country to help to rescue stray animals or giving them a new home.
- Though most of them only operate via Facebook. Only a few of them have their websites or their app.
- Besides rescuing and adopting animals, few shops also sell pet foods and medicine online. But there is no common platform yet for people to take part in the generous job of helping stray animals.

3) SPECIFICATION

The project we have made is mainly focused on rescue or save homeless animals. At first, we created a user panel. Then we created a volunteer panel for helping users. Homeless animals are not the user of our website, so users & volunteers play an important role to save them. Users and volunteers can communicate with each other through our website. That's how we can create a big community to save our ecosystem.

4) REQUIRED TOOLS

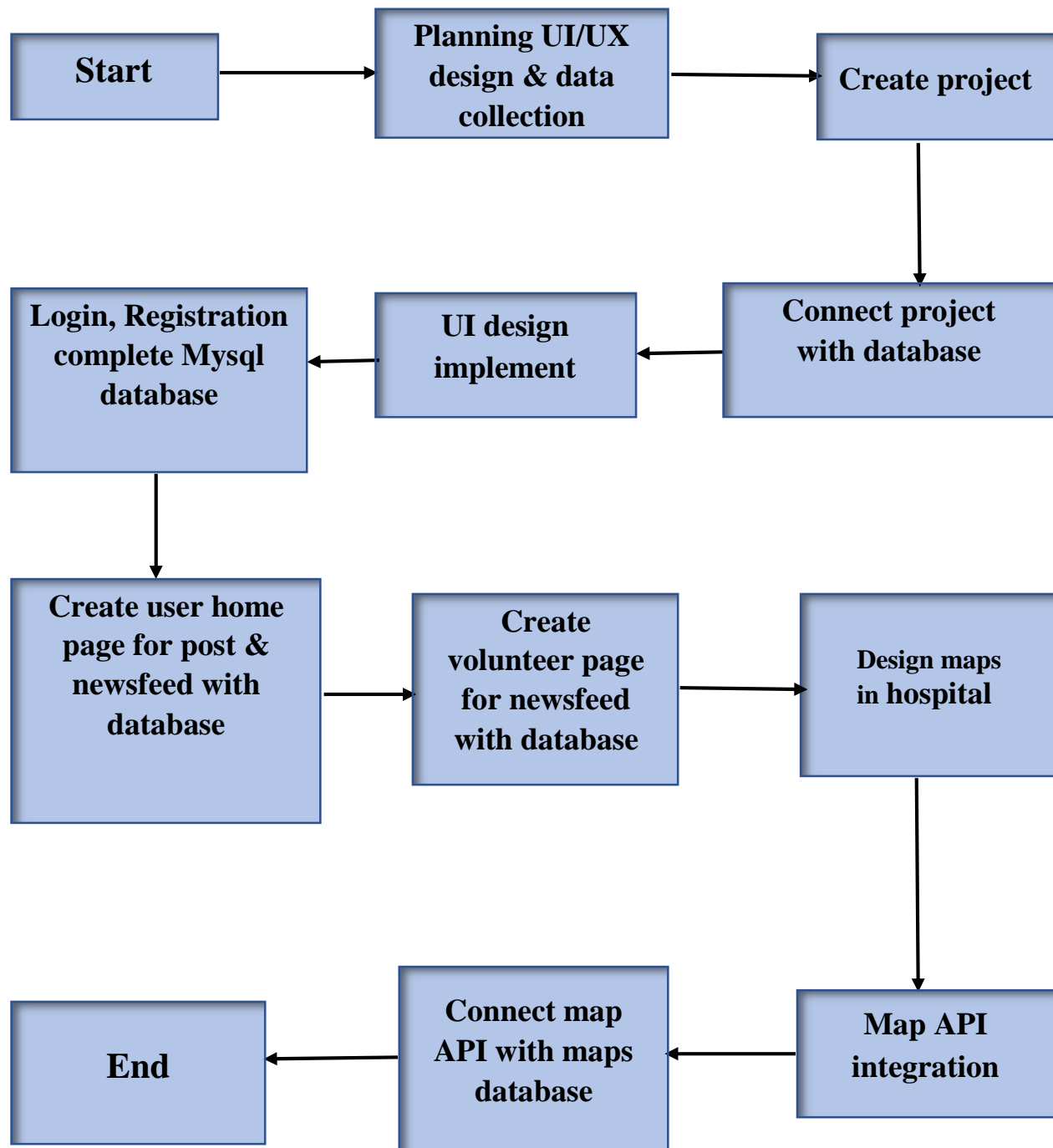
Frontend Design:



Backend Design:



5) PROJECTED PLAN



6) DESIGN & IMPLEMENTATION

In our project, has two actors (**user & volunteer**). At first, we design the UI of our project. Giving a rescue post and seeing newsfeeds, users or volunteers must be registered on our website. Registration UI is given below,

Registration:

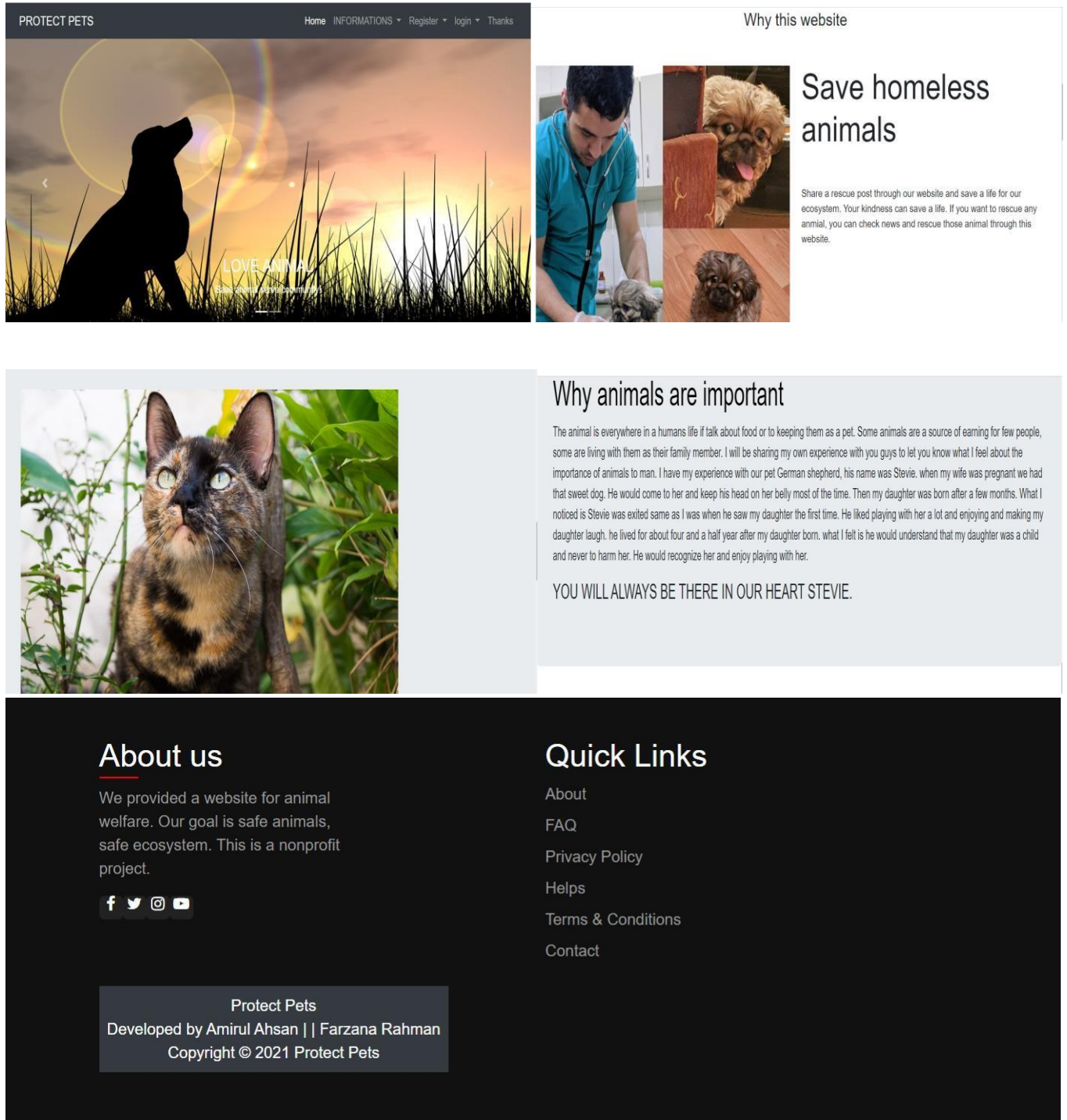
The image shows two side-by-side registration forms for 'ProtectPets'. Both forms have a header with the text 'User Register' and 'Volunteer Register' respectively, and a logo with the text 'ProtectPets' and 'Participate with our community'. The 'User Register' form has fields for Username, E-mail, Phone, Division, Post Code, Password, and Re-type Password, with a 'Register Now' button and a 'Login' link. The 'Volunteer Register' form has fields for username, email, Phone, Division, Password, and Password, with a 'Register Now' button and a 'Login' link.

After completing registration, the user can give or see posts. Login UI is given below,

Login:

The image shows two side-by-side login forms for 'ProtectPets'. Both forms have a header with the text 'User login' and 'Volunteer login' respectively, and a logo with the text 'ProtectPets' and 'Participate with our community'. The 'User login' form has fields for Email and Password, with a 'Login' button and a 'Login' link. The 'Volunteer login' form has fields for Email and Password, with a 'Login' button and a 'Login' link. Below the login forms, there are sections for 'About us' and 'Quick Links'. The 'About us' section has the text 'We provided a website for animal' and the 'Quick Links' section has the text 'About'. The footer of the page includes a search bar, a Windows taskbar, and a system clock showing 8:58 am on 28/05/2021.

Website home page:



User home Page:

Users can give post or see newsfeeds from this page.

PROTECT PETS

HomeINFORMATIONSDrop Down Register Drop Down login Drop DownThanks

Welcome to ProtectPetsHello, ahsanlogout

Welcome User!

Here give the rescue posts!

Select ImageChoose FileNo file chosenPost

News Feed

Volunteer home page:

Volunteers can give post or see newsfeeds from this page.

PROTECT PETS

HomeINFORMATIONSDrop Down Register Drop Downlogin Drop DownThanks

Welcome to ProtectPetsHello, amirulahsanlogout

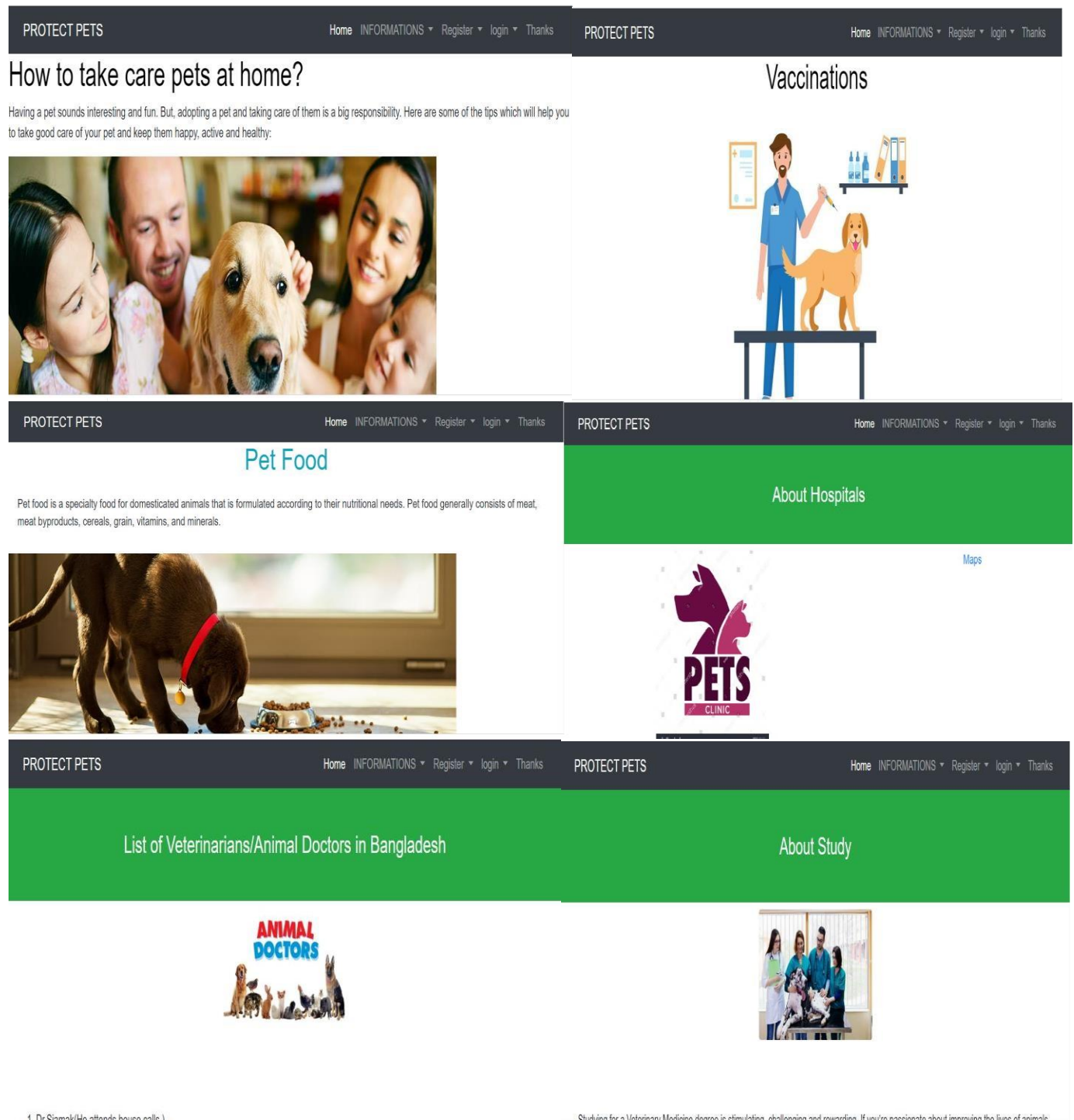
Welcome Volunteer!

Here give the rescue posts!

Select ImageChoose FileNo file chosenPost

News Feed

Information's UI:



Open XAMP server:

XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]

XAMPP Control Panel v3.2.4

Modules	Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	5264 6924	80, 443	Stop Admin Config Logs	
<input type="checkbox"/>	MySQL	5184	3306	Stop Admin Config Logs	
<input type="checkbox"/>	FileZilla			Start Admin Config Logs	
<input type="checkbox"/>	Mercury			Start Admin Config Logs	
<input type="checkbox"/>	Tomcat			Start Admin Config Logs	

3:07:33 am [main] Initializing Control Panel
3:07:33 am [main] Windows Version: Enterprise 64-bit
3:07:33 am [main] XAMPP Version: 7.4.8
3:07:33 am [main] Control Panel Version: 3.2.4 [Compiled: Jun 5th 2019]
3:07:33 am [main] You are not running with administrator rights! This will work for most application stuff but whenever you do something with services there will be a security dialogue or things will break! So think about running this application with administrator rights!
3:07:33 am [main] XAMPP Installation Directory: "c:\xampp\
3:07:33 am [main] Checking for prerequisites
3:07:34 am [main] All prerequisites found
3:07:34 am [main] Initializing Modules
3:07:34 am [main] Starting Check-Timer
3:07:34 am [main] Control Panel Ready
7:59:06 am [Apache] Attempting to start Apache app...
7:59:09 am [mysql] Attempting to start MySQL app...
7:59:09 am [Apache] Status change detected: running
7:59:09 am [mysql] Status change detected: running

Config Netstat Shell Explorer Services Help Quit

Database Creation:

For implementing database in this project we use phpMyAdmin web server. First, we create two new databases (protectpets-master & maps) with the required tables. Snapshots of databases with required tables given below,

phpMyAdmin

Server: 127.0.0.1 Database: protectpets-master

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Recent Favorites

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
posts	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	36.0 K B	-
users	Browse Structure Search Insert Empty Drop	11	InnoDB	utf8mb4_general_ci	36.0 K B	-
volunteer	Browse Structure Search Insert Empty Drop	10	InnoDB	utf8mb4_general_ci	36.0 K B	-
3 tables	Sum	21	InnoDB	utf8mb4_general_ci	48.0 K B	0 B

Check all With selected

Create table

Name: Number of columns: 4

Go

Console

phpMyAdmin

Server: 127.0.0.1 Database: maps

Structure SQL Search Insert Export Import Privileges Operations Triggers

Recent Favorites

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None	AUTO_INCREMENT		Change Drop More
2	name	varchar(60)	utf8mb4_general_ci		No	None			Change Drop More
3	address	varchar(80)	utf8mb4_general_ci		No	None			Change Drop More
4	lat	float(10,6)			No	None			Change Drop More
5	lng	float(10,6)			No	None			Change Drop More
6	type	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More

Check all With selected Browse Change Drop Primary Unique Index Fulltext

Print Propose table structure More columns Normalize

Add 1 column(s) alter type Go

Indexes

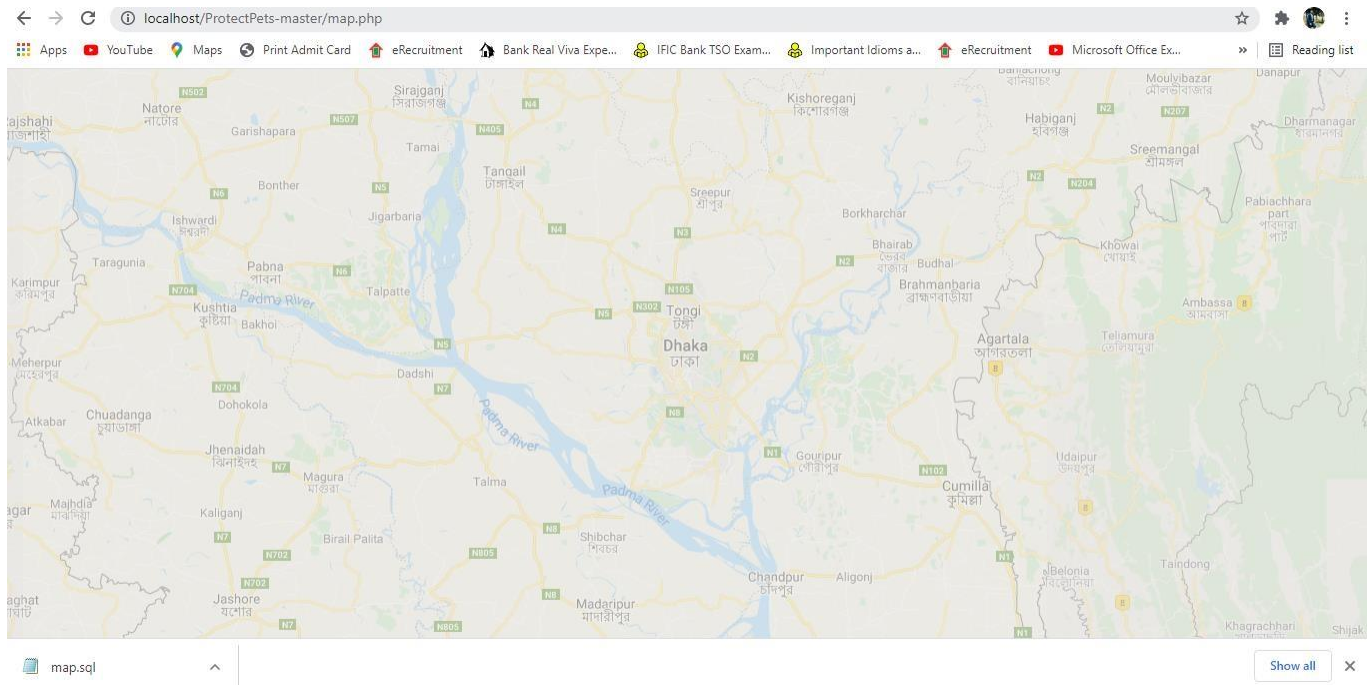
Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	1	A	No	

Create an index on 1 column(s) Go

Console

Google Map API:

Here we use Google Maps API for finding the location of the veterinary hospitals.



Contribution graph:



Forgot Password UI:

Users and volunteers can recover their password.

The screenshot shows a web browser window with the URL `localhost/ProtectPets-master/forget.php`. The page has a dark header with the text "PROTECT PETS" on the left and navigation links "Home", "RESCUE", "INFORMATIONS", "Register", "login", and "Thanks" on the right. The main content area is titled "Forgot Password" in green text. Below this, there is a form with the label "user id:" followed by a text input field and a "Submit" button. The browser's taskbar at the bottom shows the Windows logo, search icon, and several application icons. The system clock in the bottom right corner displays "12:54 PM" and "5/28/2021".

PROTECT PETS

Home RESCUE INFORMATIONS Register login Thanks

Forgot Password

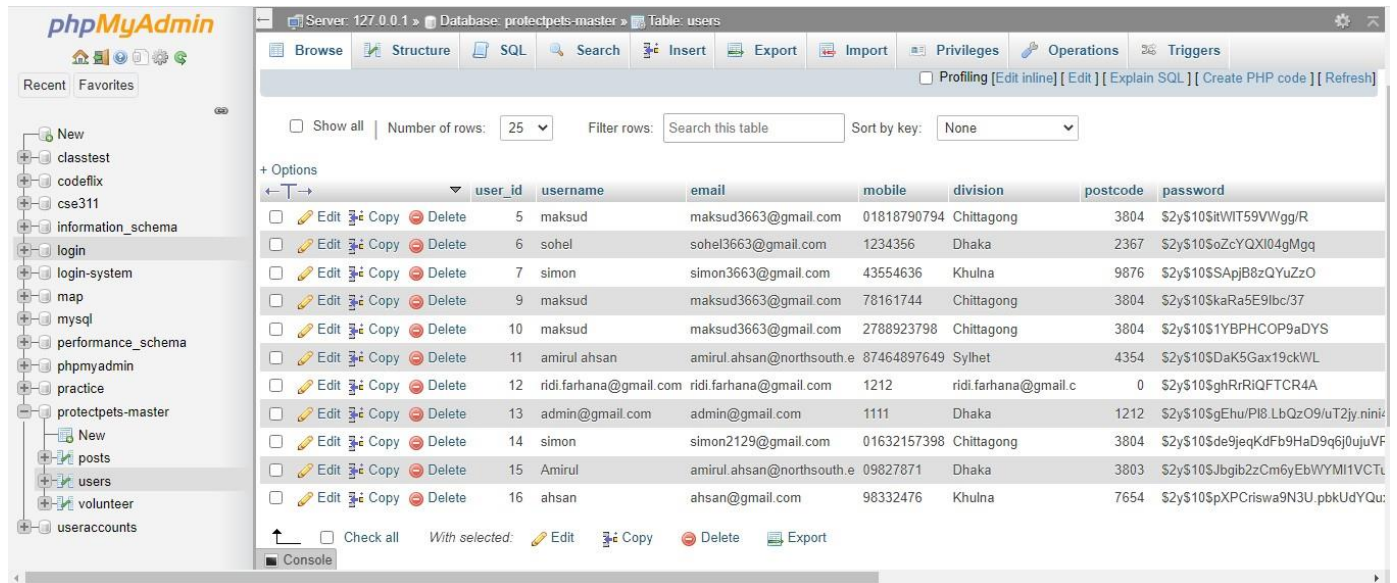
user id:

Submit

7) RESULT & EVALUATION

User data:

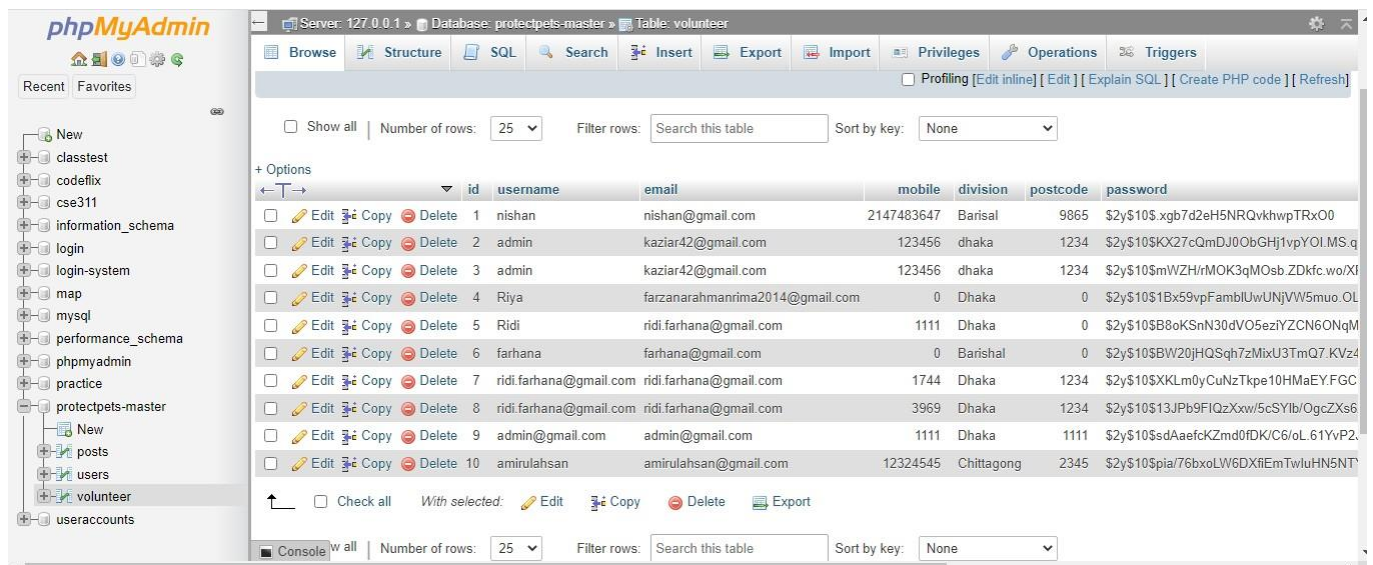
When users register on our website, the user's data saved in the users table of protectpets-master database. Snapshot of users table data are given below,



	user_id	username	email	mobile	division	postcode	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	maksud	maksud3663@gmail.com	01818790794	Chittagong	3804	\$2y\$10\$itWIT59VWgg/R
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	sohel	sohel3663@gmail.com	1234356	Dhaka	2367	\$2y\$10\$ozcYQXI04gMgq
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	simon	simon3663@gmail.com	43554636	Khulna	9876	\$2y\$10\$SApjB8zQYuZzO
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	maksud	maksud3663@gmail.com	78161744	Chittagong	3804	\$2y\$10\$kaRa5E9lbc37
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	maksud	maksud3663@gmail.com	2788923798	Chittagong	3804	\$2y\$10\$1YBPHCOP9aDYS
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	amirul ahsan	amirul.ahsan@northsouth.e	87464897649	Sylhet	4354	\$2y\$10\$DaK5Gax19ckWL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	ridi.farhana@gmail.com	ridi.farhana@gmail.com	1212	ridi.farhana@gmail.c	0	\$2y\$10\$ghRrRIQFTCR4A
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	admin@gmail.com	admin@gmail.com	1111	Dhaka	1212	\$2y\$10\$gEhu/Pi8.LbQzO9/uT2jy.nini
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	simon	simon2129@gmail.com	01632157398	Chittagong	3804	\$2y\$10\$de9jqKdFb9HaD9q6J0ujuVF
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	Amirul	amirul.ahsan@northsouth.e	09827871	Dhaka	3803	\$2y\$10\$Jbglb2zCm6yEbWYMI1VCTL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	16	ahsan	ahsan@gmail.com	98332476	Khulna	7654	\$2y\$10\$PXCriswa9N3U.pbkUdYQ:

Volunteer data:

When volunteers register on our website, the user's data saved in the volunteer table of protectpets-master database. Snapshot of volunteer table data are given below,



	id	username	email	mobile	division	postcode	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	nishan	nishan@gmail.com	2147483647	Barisal	9865	\$2y\$10\$.xgb7d2eH5NRQvkhwpTRxO0
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	admin	kaziar42@gmail.com	123456	dhaka	1234	\$2y\$10\$KX27cQmDJ0ObGHj1vpYOL.MS.g
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	admin	kaziar42@gmail.com	123456	dhaka	1234	\$2y\$10\$mWZH/rMOK3qM0sb.ZDkfc.wo/XI
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Riya	farzanarahmanrima2014@gmail.com	0	Dhaka	0	\$2y\$10\$1Bx59vpFambUwUNjVW5muo.OL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Ridi	ridi.farhana@gmail.com	1111	Dhaka	0	\$2y\$10\$B8oKSn30dVO5ezYZCN6ONqM
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	farhana	farhana@gmail.com	0	Barishal	0	\$2y\$10\$BW20jHQSqh7zMixU3TmQ7.KVz4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	ridi.farhana@gmail.com	ridi.farhana@gmail.com	1744	Dhaka	1234	\$2y\$10\$XKLm0yCuNzTkpe10HMaEY.FGC
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	ridi.farhana@gmail.com	ridi.farhana@gmail.com	3969	Dhaka	1234	\$2y\$10\$13JPb9FIQzXxw/5cSYIb/OgcZXs6
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	admin@gmail.com	admin@gmail.com	1111	Dhaka	1111	\$2y\$10\$sdAaeFcKZmd0fDK/C6/oL.61YVP2.
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	amirulahsan	amirulahsan@gmail.com	12324545	Chittagong	2345	\$2y\$10\$pia/76bXoLW6DXfiEmTlwH5NNT

Posts Table Data:

When the user gives a post, the post will update in the protectpets-master database posts table. Users can update and delete posts.

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a database tree. The main area displays the 'Table structure' for the 'posts' table. The table has five columns: post_id (int(11), AUTO_INCREMENT), user_id (int(11)), post_content (varchar(255)), upload_image (varchar(255)), and post_date (timestamp). Below the table structure, there is an 'Indexes' section showing a PRIMARY index on post_id. At the bottom, there is a 'Console' tab.

Server: 127.0.0.1 » Database: protectpets-master » Table: posts

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	post_id	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	user_id	int(11)		No	None			Change Drop More
<input type="checkbox"/>	3	post_content	varchar(255)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	4	upload_image	varchar(255)	utf8mb4_general_ci	No	None			Change Drop More
<input type="checkbox"/>	5	post_date	timestamp		No	current_timestamp()			Change Drop More

☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Fulltext](#)

[Print](#) [Propose table structure](#) [Move columns](#) [Normalize](#)

[Add](#) 1 column(s) after post_date [Go](#)

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	post_id	0	A	No	

Create an index on 1 columns [Go](#)

[Console](#)

8) FUTURE WORK

Since this project is only focused on release or rescue homeless animals for our ecosystem. After creating a big community, then we want to give users contact with doctors from our website. Users can upload the medical reports on our website & it will give vaccine notification to the user. Our future goal is trying to create a doctor panel and collaborates with users.

9) Challenges

- Since it is a non-profit project which keenly focused on saving animal lives, the cost of server and maintenance will be challenging.
- It will require a large number of volunteers.
- Less awareness and knowledge of people about animal welfare.
- Unfamiliar approach for saving animals.
- It is a different approach to saving animals, hence people should be informed on a large scale about such a website and how it can help in saving animals.

10) CONCLUSION

We are trying to create a user-friendly website for saving homeless animals. We need to save animals for the environment. Animals need better living space, food, treatment. Through our website, we are trying to serve those homeless animals. This project may create a good connection between homeless animals and peoples. If someone is not interested in rescue animals they also can give a rescue post and save a life. This is our goal and we are trying our best.

11) REFERENCES

- Rollin, B. E. (1993). Animal welfare, science, and value.
- Fraser, D., Weary, D. M., Pajor, E. A., & Milligan, B. N. (1997). A scientific conception of animal welfare that reflects ethical concerns. *Animal welfare*, 6, 187-205.
- Naiman, R. J. (1988). Animal influences on ecosystem dynamics. *BioScience*, 38(11), 750-752.
- Whay, H. R. (2007). The journey to animal welfare improvement. *Animal Welfare*, 16(2), 117-122.

12) APPENDIX

We have published our project on GITHUB. Corresponding links are:

<https://github.com/AmirulAhsanSimon/ProtectPets>