

ONLINE MARKETPLACE OF PETS AND PLANTS

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Bachelor of Science in Computer Science and Engineering

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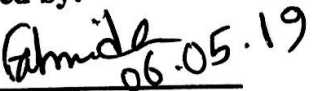
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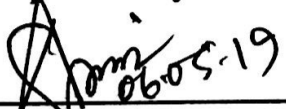
We hereby declare that, this project has been done by us under the supervision of **Ms. Fahmida Afrin, Lecturer, Department of CSE, Daffodil International University**. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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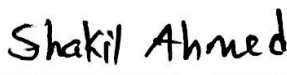


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ABSTRACT

The project is a web portal, connecting buyers and sellers of different kinds of pets, cage birds and plants via online because there is no sustainable marketplace for pets and plants where seller and buyer get good product with valuable price. Sellers can post ads of their product with a detailed description, pictures and suitable price. Each category will have different sub categories. Buyers can directly contact with sellers via contact number or live chat. There will be support center for users if they have any confusion regarding any product or service. The buyers can follow any seller they like to keep updated about their activities. There will be a home-service as “Rooftop Garden” for those who want to decorate or customize their rooftop with plants. Our website will contain a portal (blog/news) where we will continuously post about various kinds of disease of products, health or food related queries etc.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

In this decade of modern technology, people need everything hassle-free in their regular life. In recent years, online shopping is becoming easier day by day. Online marketplace plays a vital role in our modern society as it is a multi-dimensional thing. The direct connection between a buyer and seller makes it more trustworthy. Many people in our country find online shopping easier as they can find specific products they search that isn't available or hardly available in anyone's area.

There isn't enough shop for plants, birds or pets in our country. Our project is something that will connect the bird lovers, plant/tree lovers and pet lovers in one platform. They can enjoy freedom in buying, selling and exchanging their birds, plants or pets. They can follow someone they like in our website, chat online and read blogs. People can easily know about diseases and problems of any product.

1.2 Motivation

In this city life, people are very much busy with their daily work. They don't have any source of refreshment instead of scrolling the screens of their social media accounts. So it's necessary to find something alternative refreshment sources for our own. And we believe, the love towards nature can be a very strong refreshment source needed for a human soul.

Once, I had a pet cat named 'JD'. For an unavoidable circumstance, I had to sell that pet. Later I found, there is a huge inner difference in me that transformed me to a very rugged and bad-tempered person. I used to feel lonelier as I have nothing to do without social media scrolling. Then I thought human needs to have an inner connection with nature to live. And as a developer I thought, what if we digitize the whole system and create an online platform for people who love nature. From that thought, we launched this project.

1.3 Objective

The following are the objectives of this project:

- Easy interaction between buyer and seller.
- Support center for solving user's confusions.
- Live-chatting between buyer and seller.
- Home-service of Roof garden customization.
- Continuous helpful blog posts; posted by experts.
- Follow favorite/frequent seller profiles.
- Raise awareness about nature among people.

1.4 Expected Outcome

In positive sense, this project will give vast outcome both in personally and environmentally. Here are some outcomes that are expected:

- To be the only platform in Bangladesh for the nature lovers.
- Inspiring 'Rooftop Garden' in cities like Dhaka, Chittagong etc.
- Make a green Dhaka.
- Increase available sources for buyer and seller.
- Increase the community.
- Increase trustworthy pet disease related blog portal.
- To introduce an ethical source
- Reduce customers hassle while buying and selling any product
- People will get an notice that we can benefit ourselves through ethical marketing

1.5 Report Layout

We developed an application which name is “Online marketplace of Pets and Plants”. We make sure that the project is completed in time. According to our workflow we design our project report.

In chapter 1 named Introduction, we discussed about the whole idea, motivation, expected outcomes and objectives of this project.

In chapter 2 named Background discuss about the Introduction, Related Works, Comparative Studies, Scope of the Problem, Challenges.

In Chapter 3 named Requirement Specification we discuss about the Business Process Modeling, Requirement Collection and Analysis, Use Case Modeling and Descriptions, Logical Data Model, Design Requirements, ER diagram.

In chapter 4 named Design Specification we discuss about the Front-end Design, Back-end Design, Interaction Design and UX and Implementation Requirements.

In chapter 5 named Implementation and Testing we discuss about the Implementation of Database, Implementation of Front-end Design, Testing Implementation, Test Results and Reports.

In chapter 6 named Discussion and Conclusion we discuss about the Future Scope, Discussion and Conclusion of the whole project.

CHAPTER 2

BACKGROUND

2.1 Introduction

Initial study is very important. It is required for investigating a system background information. It helps to find out system's fault, what to update and what to add as new feature.

The main goal of our project is to build a platform where provides a flexible, reliable business opportunities for buyer and seller. We developed this project for some specific people who want to sell birds or plants online but he/she doesn't have that capabilities to maintain a website or he/she doesn't want it. So we developed a website where a seller can create a virtual market like the real one, then the seller can customize it and promote any type of their product.

On the other hand, a buyer get a lots of opportunities before he/she buy some products. Convenient way to compare price and product, provide a level of trust between buyer and seller, reliable source, secured money transaction and greater transparency.

If a merchant sell reliable products, he/she could likely be a successful businessman in our marketplace.

2.2 Related Work

During our project research, we explored a few websites which service concept are almost similar like our proposed system. We analyzed those website and try to dig a hole for find out their system fault. Here we tried to note down below:

- www.bikroy.com (Bikroy)



Fig 2.2.1: Bikroy.com Landing Page

- www.bdpets.com (BD Pets)

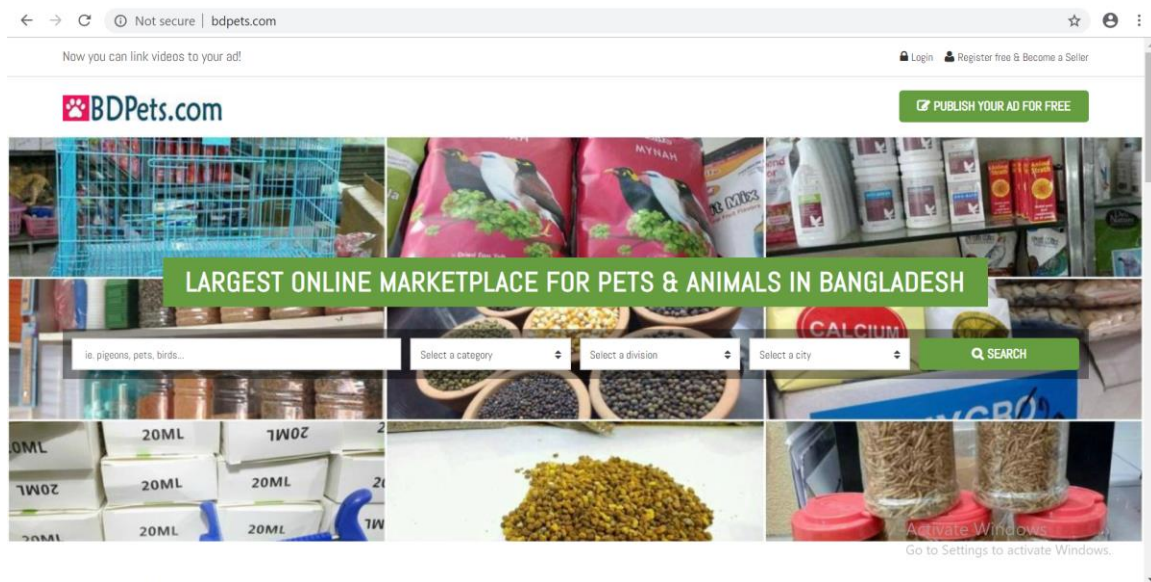


Fig 2.2.2: BdPets.com Landing Page

- www.petbangla.com (Pet Bangla)

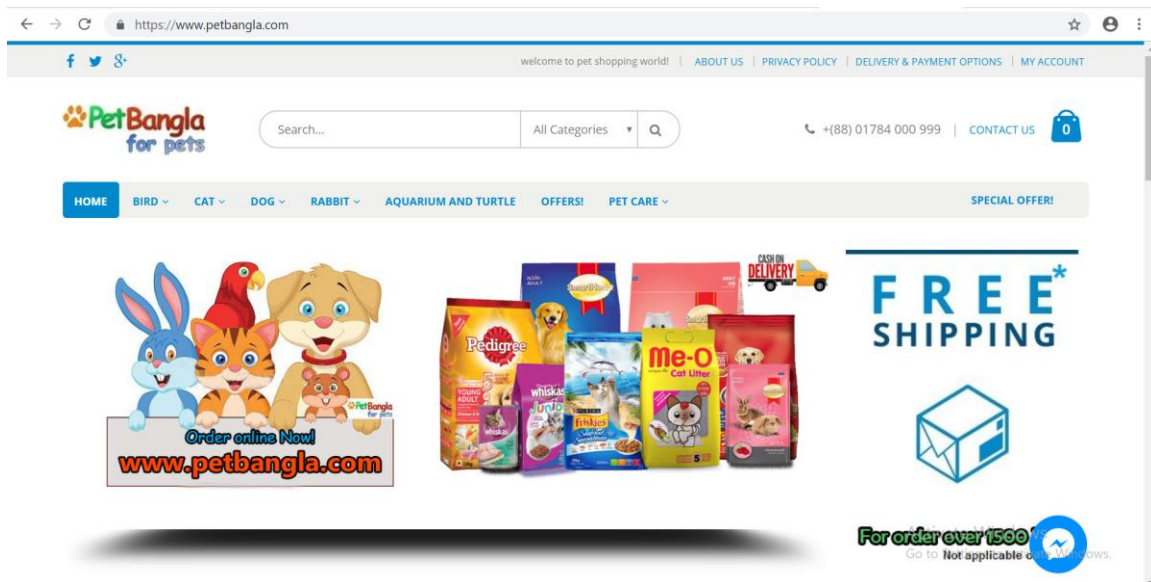


Fig 2.2.3: PetBangla.com Landing Page

- www.poshaprani.com (Posha Prani)



Fig 2.2.4: PoshaPrani.com Landing Page

2.3 Comparative Studies

After going through all the related websites, we didn't find the exact thing that we are going to deliver. One of them sells pet, another one sells plant and so on.

If we say about Bikroy, they aren't exactly a platform for pets, birds and plants lovers. This is a marketplace that sells almost everything. What people will not get here is a platform or community that we will deliver. Moreover, we are going to introduce a blog portal written by experts. Bikroy doesn't have that feature.

If we say about BD Pets, they are a marketplace for only pets. Though their services and our services are almost similar, we are going to have some extra features too comparing to BD Pets. We have live chat option in our website, we have helpful blog portal. And most importantly what they don't have is 'Following Favorite Seller Profile' option.

If we say about Pet Bangla, they even aren't a platform for direct selling any pets or birds. They are exactly a website selling only the necessary foods and supplements or medicine needed for a pet or bird.

If we compare with Posha Prani, they direct sell pets or birds. They aren't a marketplace for the sellers. They are just a single dimensional online shop. Moreover, we have extra features like buying and selling plants, rooftop garden etc.

2.4 Scope of the Problem

Here we have pointed out some problem scopes for our project. We have to maintain enough security system as it is a real website, here people will do transactions, interact with unknown sellers or buyers. Problems alike:

- Since the website is a marketplace, it is a real big issue. Security cannot be compromised here.
- We must have to ensure that no information from here would be re-used on any other project. That means, no data selling.
- The storage needed for this website would be very large. So ensuring a hack-proof storage would be our top priority.
- We need to maintain loyalty of its best.

- Online identity verification is another big issue. As people will mostly have to interact with unknown individuals, they will expect verified sellers from our site.

2.5 Challenges

“The greater the obstacle, the more glory in overcoming it.” A proverb people says with meaningful sense. While working in this project, we faced many challenges and did overcome those as we were confident enough towards our goal. And in future, we will face more challenges we know, but we will surely overcome those too. Here are some challenge we may face-

- Admin has to be define user’s post will be approve or not
- Admin maintain the hole database
- Admin has to prevent unauthorized access
- Individual post are shown to all
- It’s difficult to find real buyer or seller

CHAPTER 3

Requirement Specification

3.1 Business Process Modeling

Business process modeling is the analytical representation or put simply an illustration of an organization's business processes. However, to actually run a business process, you will need to digitize that process in a way that a workflow engine can understand [4]. We completed our model in a way that viewers can understand easily about our project. Usually people do this model using data flow diagram. We have analyzed our process model via using user requirements properly.

At first on login process, one need to enter their e-mail and password to login. It will check e-mail and password if it's matching or not. Then will complete rest of the process. Users post their ads or search for products. Admin manages posts and blog portal with the help of moderators.

3.2 Requirement Collection and Analysis

Requirement are those things that you will be need to complete some specific task. It varies from project to project. There are some basic needs we required to complete this project.

- Needed to add category to add products on the site.
- Needed a proper dashboard to control and manage everything.
- Every customer's details with required fields filled.
- Match e-mail and password while login.
- Create a comfortable and easy website for users.
- Improve website interaction speed.

3.3 Use Case Modelling and Description

Use case modelling diagram of our buy and sell marketplace project.

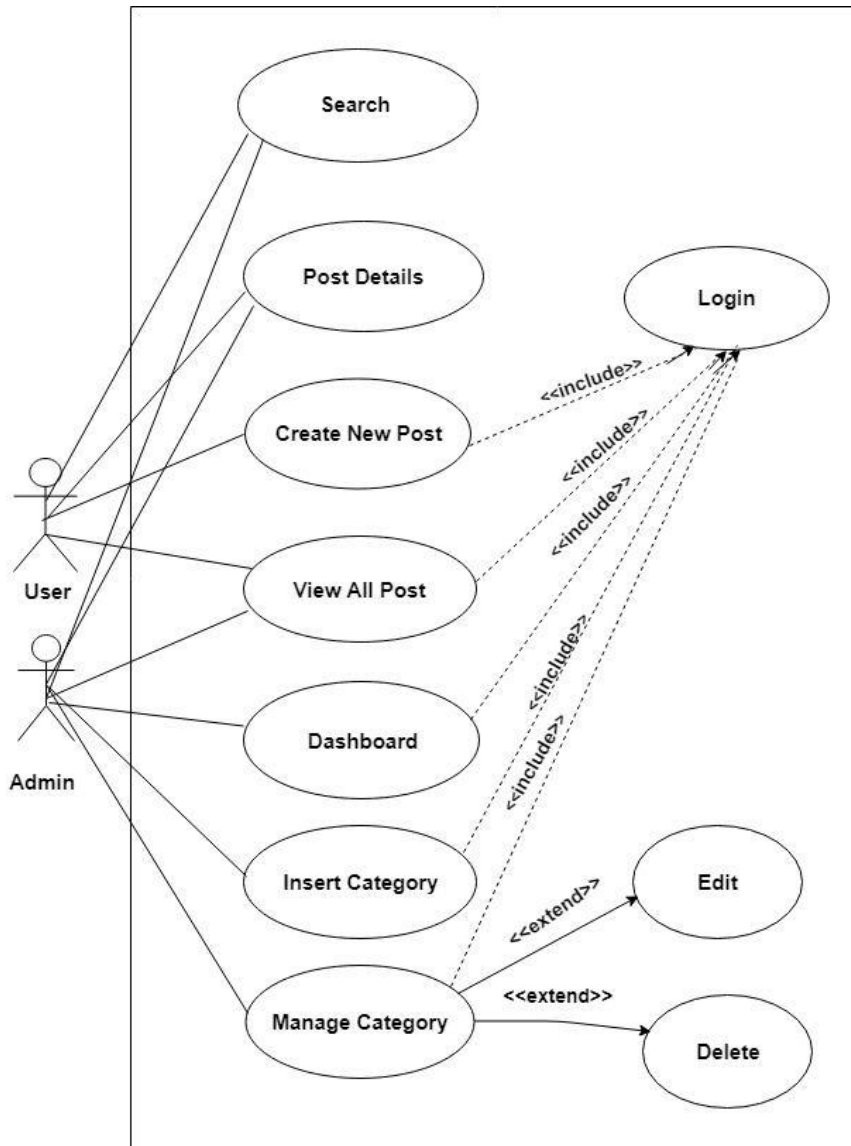


Fig 3.3: Use Case Modeling

3.4 Logical Data Model

Here we tried to show our project model via ER Diagram.

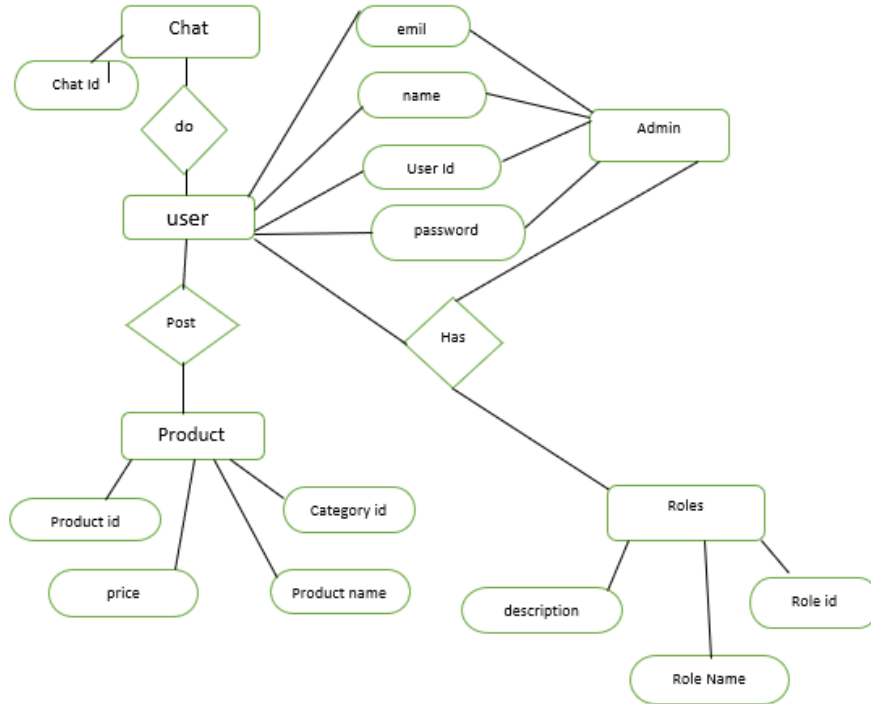


Fig 3.4: ER Diagram

3.5 Design Requirements

- Menu and sub-menu are visible in the home page.
- Product will be show in the home page with product picture and price.
- Login page and registration page are also in the home page.
- Blog page in the front side where people can read which is written in the blog page.
- Search option where people can search and find their desire object.
- Admin can control everything by the dashboard.
- Admin can create and delete product on the system.

CHAPTER 4

Design Specification

4.1 Front-end Design

Front-end web development is the practice of converting data to Graphical User Interface (GUI) for user to view and interact with data through digital interaction using HTML, CSS and JavaScript. It is the main attraction of a website [1].

Every front-end developer wants his website to be user-friendly. That's why it should be represented with better design keeping everything a user need. Here is the list of the front-end designs of the pages we have in our website.

Table 4.1: Total Frond-end Design Pages

Serial No.	Page Name
01	Home
02	User Login
03	User Registration
04	Product List
05	View Product
06	Blog Portal
07	Settings
08	About
09	Contact Us
10	Search
11	User Profile

4.2 Back-end Design

The back-end is the code that runs on the server that receives requests from the clients, and contains the logic to send the appropriate data back to the client. The back-end also includes the database, which will persistently store all of the data for the application [2]. Its job is to 1) access the information that users require through the app 2) combine and transform such information 3) return the information in its new shape to the requester. This typically includes three major parts:

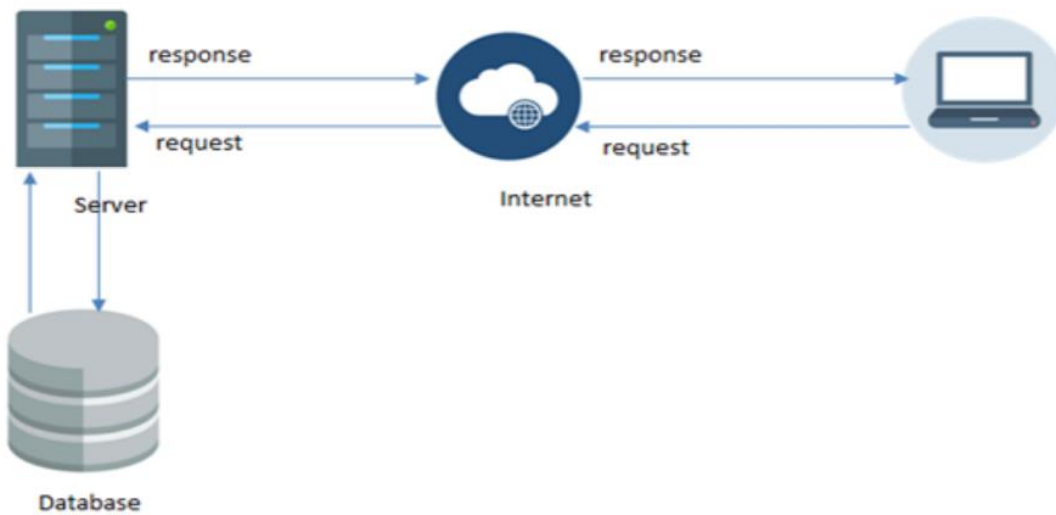


Fig 4.2.1: Back-end Design Process

- **Server**

A server is simply a computer that listens for incoming request through there are machines made and optimized for this particular purpose, any computer that is connected to a network can act as a server [3].

- **Application**

This is the application running on the server that listens for requests retrieves information from the database, and send a response [3].

- **Database**

Database are used to organize and persist data. The database design of our project is given below. Using laravel commands we have created our database [3].

	id	name	description	votes	created_at	updated_at
☐	9	Baylee Huel I	Ad voluptatum eligendi ut vero. Tenetur nostrum ut...	1	2019-03-25 06:36:12	2019-03-25 06:36:12
☐	10	Mrs. Anjali Kozey Jr.	Ducimus id rerum perferendis. Nulla suscipit tempo...	1	2019-03-25 06:36:12	2019-03-25 06:36:12
☐	11	Della Dickens DVM	Amet qui ea persiciatis id aliquam aliquid quia...	1	2019-03-25 06:36:12	2019-03-25 06:36:12
☐	12	Dr. Retha Wilkinson	Nisi unde cumque omnis ut ut optio voluptatem. Fug...	1	2019-03-25 06:36:12	2019-03-25 06:36:12
☐	13	Miles Wunsch	Officia in explicabo sed esse iusto officis. Sunt...	1	2019-03-25 06:36:12	2019-03-25 06:36:12
☐	14	Dr. Lillie Beahan DVM	Minima quo consequuntur illo autem. Ea esse aspern...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	15	Prof. Niko Gaylord	In delectus aut minus voluptates. Porro amet beata...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	16	Heidi Cummerata	Ipsum qui similique recusandae eveniet. Nemo harum...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	17	Eldred Braun	Quo alias consectetur modi consequatur voluptatibu...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	18	Miss Eryn Buckridge	Provident asperiores delectus consequatur minus. U...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	19	Chester Schmeler Jr.	Dolorem dolore sit quae et a autem nihil qui. Et v...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	20	Jacynthe Wisoky	Omnis perferendis recusandae et ea vel libero. Vel...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	21	Dr. Ruben Mertz	Error sunt asperiores repellat unde cum. Aliquam v...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	22	Neil Wisozk	Reicendis odit sed dolores repellat. Qui rerum au...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	23	Ottilia Gerhold	Et id delectus numquam esse vitae. Labore tempore...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	24	Dr. Kristopher Hagenes	Et nihil vel voluptatem dolorem. Velit dolore offi...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	25	Ella Roberts DVM	Quibusdam qui quod voluptatum unde laboriosam opti...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	27	Destiny Kuhlman	Labore odio molestias voluptatem et voluptates mol...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	28	Beau Jaskolski DDS	Harum quia eaque rerum velit suscipit accusantium...	1	2019-03-25 06:36:13	2019-03-25 06:36:13
☐	29	Amir Kerluke	Quia ducimus consequatur ut sed. Eveniet eaque vol...	1	2019-03-25 06:36:13	2019-03-25 06:36:13

Fig 4.2.2: Database Screenshot of our Project

4.3 Interaction Design and UX

Another name of interaction design is called UI that means User Interface. And UX means User Experience. Both elements are crucial to a product and work closely together. But despite their professional relationship, the roles themselves are quite different, referring to very different parts of the process and the design discipline. Where UX Design is a more analytical and technical field, UI Design is closer to what we refer to as graphic design, though the responsibilities are somewhat more complex [4].

4.4 Implementation requirements

User experience design is the process of designing products that are easy to use, useful and delightful to interact with it. This is the process of creating product that provide relevant experience to the users [6]. To develop this web application, we followed these development tools.

Development IDE	: PhpStorm
Development Language	: PHP (Laravel), JavaScript (jQuery, npm, Ajax)
Development Design	: HTML5, CSS, Bootstrap
Server	: Xampp
Web browser	: Google chrome, Mozilla Firefox etc.
Database	: MySQL
Domain	: NULL
Hosting	: NULL

CHAPTER 5

Implementation and Testing

5.1 Implementation of Database

Using PHP, we made different types of the table which describe about the contents, attributes and the data types. In this process SQL query is needed to perform actions. In the model, the data can be checked whether the user has the permission to input the data directly into the database. There are 10 tables in our Database Management System which are-

Table 5.1: List of Database Tables

Table Names	Table Description
Admin	Admin manages table
User	Details information of all users while registration
Categories	Product categories will be shown in this table
Product	Details about posts of the product which user posts
Blog	Details about related queries
Chat	All chatting information between users
Comment	All comments will be saved about specified product

5.2 Implementation of Front-end Design

As our users will be our first priority, it is very challenging to make a simple UI design for them. And we have tried to make as simple as possible so users feel comfortable to interact. Nowadays, there are many devices like smart mobile, tablets, desktop, 4k desktop etc. We are making our website responsive so that user can visit from different devices with a marginal scale of the website and interact easily. We are making our interface relative and standard with the help of HTML, CSS, JavaScript and JQuery technologies. There are some factors of implementing the front-end design is given below.

- There are two types of user. One is Admin and another is Users.
- Every user have to login to access this application via e-mail and password.
- Admin can create product, create category, view everything and manages them.
- Users can add post, manages their posts, view others posts, chat each other, see blog posts, comment.

5.3 Implementation of Interactions

Responsive design is an approach to web page creation that makes use of flexible layouts, flexible images and cascading style sheet media queries. The goal of responsive design is to build web pages that detect the visitor's screen size and orientation and change the layout accordingly. To easy interact, we have used different icons, links and buttons for the users. They can switch one page to another very easily.

5.4 Testing Implementation

There are many kinds of testing while designing an application.

- Functionality
- Regression
- Security
- Performance
- Scalability
- Usability
- Localization
- Disaster Recovery
- Installation/Upgrade

We have tested our website several times and found it 100% working. Following things we have tested-

- URL Testing
- Login/Registration
- Customer Can Manage Product Posts
- Customer See Details of Other Products
- Customer Can See Blog Posts
- Customer Can Chat Online
- Customer Can Comment on Product
- One User Can Follow Another User.
- Log Out

5.5 Test Results and Reports

After successfully testing all the required things needed for a user, we can say our website is fully user-friendly and comfortable to use. The benefits of usability testing can be written in following points-

- Good quality of website.
- Easier and comfortable to use.
- More readily accepted by user.
- Easy to use for new users.
- Better UI for interacting smoothly.
- Security is strong enough.
- Data/Information is secured.

CHAPTER 6

Conclusion and Future Scope

6.1 Discussion and Conclusion

At last, we can say, for the grace of almighty, we have successfully completed our project. This project implementation journey left us huge things to learn. This project we have developed was a dream project for all of us. We just want to make people realize how important is to plant a tree, how important is to raise up a pet or bird. These experiences I gathered from this project will help me surely in future. And as I acquired deeper knowledge about these technical fields, I will be personally benefitted in future developing other projects.

The system we developed is very reliable and flexible while using. We kept in mind about the speed of the website and we can say, it is fast. People will not get bothered while scrolling. Security is acceptable and data can not be stolen via third party people.

And in the end, we can say that, there is huge opportunities in this field for those who are keen to work.

6.2 Scope of the Future Developments

At the very beginning of this project, we were confident that we will implement this project in real life. And we are still confident that we will surely do this. In future, we have more advance plans to extend our project. As like-

- Will add the option to search district-wise products.
- Will upgrade the system for better using experience.
- Will upgrade the security system furthermore.
- Will increase server storage capacity.
- Will add the notification system for user.
- Will add the e-mail marketing to registered users.
- Will add different types of offer time to time.
- Will add direct payment method for users.

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APPENDIX

Plagiarism Checking

Online Marketplace of Pets and Plants

ORIGINALITY REPORT

22%	12%	0%	20%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	Submitted to Daffodil International University Student Paper	9%
2	www.codecademy.com Internet Source	3%
3	minotor.website Internet Source	2%
4	certspring.com Internet Source	2%
5	kissflow.com Internet Source	1%
6	www.tictapps.com Internet Source	1%