

E-COMMERCE STORE

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DATABASE SYSTEM

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Table of Contents

1	Abstract	3
1.1	Why E-commerce Store?	3
1.2	Simple Shopping store	3
1.3	Mission	3
1.4	Goals and Features That we achieved . . .	4
2	Implementation	4
2.1	Frameworks	4
2.2	Problems while implementing	4
3	Procedure	5
4	Advantages of Using Frameworks	5
4.1	Using Tkinter Library	5
4.2	Using MySQL for database	6
5	Methodology	6
5.1	Fact Finding	6
5.2	Front End Designing	6
5.3	Problem with front End Design	7
5.4	Back End Designing	7
5.5	Problem with Back End Designing	8
5.6	Final Implementation	8
6	Conclusion	8

1 Abstract

1.1 Why E-commerce Store?

Technology has advanced the world today. we can call it a global village. People are so indulged in their works that they hardly has time to go for shopping. Recently, COVID-19 pandemic accelerated an expansion of e-commerce towards new firms and types of products. People can just visit any store through one click to buy products sitting in their offices and homes. That is the reason we as a team chose this project for the coming years.

1.2 Simple Shopping store

We had developed a single vendor shopping store. It means that there is only one person who is able to add or delete product. It seems like a "Karayana Store" that only shopkeepers knows which item he should keep in his shop and which item should be removed.

1.3 Mission

World is growing in the era of technology so fast that it is our duty as a computer scientists to develop the things which reduce the wastage of time. We have the vision to build such an online store which provides facilities to people with new features. To achieve this goal we have to be passionate about this project so that we may lead the world with new emerging era.

1.4 Goals and Features That we achieved

- Category filter
- Customer feedback
- Sign up for user
- Login for each user
- Admin panel
- Basics

2 Implementation

2.1 Frameworks

1. Front End

- Tkinter Library using Python

2. Back End

- MySQL (which has been studied in our course.

2.2 Problems while implementing

- First of all we faced the problem with the login page.
- Then it was difficult for us how to add product in the cart.
- There was problem while displaying product in category filter

3 Procedure

1. Sign up

- Name
- User Name
- Email
- Password

2. Sign in Or Login

- User Name
- Password

3. Buyer Or User's Screen

- Categories
- Products
- Add to cart Option
- After completing Purchase A feedback Screen

4. Admin Screen

- Add Product
- Delete Product
- View Order

4 Advantages of Using Frameworks

4.1 Using Tkinter Library

We have been studying python since the start of 2st semester. When Database course started we have been introduced with Python library that was tkinter. It was

much easy to understand and use it on this level. Due to pandemic, it was difficult for us to learn different frameworks like django or any other computer language. Tk-inter library is very flexible.

4.2 Using MySQL for database

It is flexible to use. Syntax is very simple and close to human interaction. It is easy to use. The main thing is this was included in the course and we worked a lot on database using MySQL. it facilitates us for data storage. We can define each and everything whether it is column or entity according to our own desires. It is used to define and manipulate the data.

5 Methodology

5.1 Fact Finding

It is true that we all were assigned as a team but due to ODL it was very difficult for us to be present at the time of meeting regarding project. but somehow we managed that from where we should start our project and where it should be ended.

5.2 Front End Designing

When we had done our all facts, ER diagram then it was the time to implement our project using any interface. We decided to concentrate on the front end page for the user. First, each of us made rough designs on pages and then we agreed on a single design with the combination

of all designs. We planned many things but when we started implementing it using tkinter we came to know that it is just easy to use but using this we couldn't achieve our goals that how our page should look. Due to burden of studies from all courses it was also difficult for us to learn CS, HTML, JAVA etc. At last we started our implementation through tkinter.

5.3 Problem with front End Design

In Front End Designing, we thought of using an age filter option. but it was difficult to achieve so instead of age filter option we make a category option and separated each product according to its category.

We succeeded in getting feedback of every product through customer but again it was difficult to check that intensity of that comment whether it is in favour of product or against the product.

5.4 Back End Designing

We used MYSQL to create the database for our project where information regarding products, users and their purchase record was stored. We created tables for each thing whether they are users who visited our store, product which is available in the store, product which is purchased by the user, total number of orders and feedback of each product.

5.5 Problem with Back End Designing

With the spirit of team work, it was pleasure that we did not face any type of problem regarding database of our project.

5.6 Final Implementation

After all these circumstances, now it was the time to give the final shape of project. And what we did as front end and back end, we made a final store.

6 Conclusion

We were excited when this course began, we all wanted to develop a store which can be used as profession in coming years. Although it was not easy to make a project using this kind of library but, We accepted it as challenge using tkinter library and did our project in an efficient way. We regret that we could not fulfil all the goals and features which were assigned to us due to some pandemic, burden of studies or may be some negligence in work. But the store we developed using tkinter is a big achievement for us. Thanks to Sir Tanvir and Our lab Engineer Sir ShaffiUllah who worked hard for us.