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1. Introduction To Project

1.1 Project Summary

Table 1.1 Project Summary

Project Title	Craft Shop			
Aim	Our main aim is to provide customers a single platform where they can shop for different handmade craft which is a part of culture and tradition of different categories Shopping.			
Project Category	Website			
Tools	IDE Visual Studio Code			
	Language / HTML, CSS, JAVASCRIPT, PHP,			
	Framework XAMPP, MYSQL			
	Database	MYSQL		

1.2 Purpose

The main aim is to provide a digital platform to grab opportunities of internet consumer market. By allowing the seller to sell the creative handmade crafts and looms to customers with the help of online e-commerce website. So that large customer base is created which supports local job opportunity with profitable income.

Goals of the project:

- Provides a very user friendly interface.
- **\Delta** Easy to use and understand.

1.3 Objective

The main objective of the project is to provide handicraft product and decorative crafts.

1.4 Scope

What it can do?

- Customers can browse different products can add them to cart and can checkout by selecting delivery address and time and then by making payment.
- Seller can add products under different categories and also add promo codes and can view delivery status.
- Delivery Boy can deliver products to the customers, change delivery status like out for delivery also to check assigned orders and delivery confirmation by user.
- ❖ Admin can approve/reject sellers and products, manage categories, filters, locations, delivery boy, users, etc.

What it can't do?

- Live location update for the delivery is not provided yet.
- ❖ Integration of seller and delivery boy module need further improvements.
- Interface addition is required where delivery boy can see from which seller to pick order from.
- ❖ Addition of reviews and live assistance module is needed

1.5 TECHNOLOGY AND LITERATURE REVIEW

> HTML

HTML (Hypertext Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behaviour (JavaScript).

"Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.

HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as <head>, <title>, <body>, <header>, <footer>, <article>, <section>, , <div>, , , <aside>, <audio>, <canvas>,

<data list>, <details>, <embed>, <nav>, <output>, <progress>, <video>, , , and many others.

An HTML element is set off from other text in a document by "tags", which consist of the element name surrounded by "<" and ">". The name of an element inside a tag is case insensitive. That is, it can be written in uppercase, lowercase, or a mixture. For example, the <title> tag can be written as <Title>, <TITLE>, or in any other way.

Courtesy of:

https://developer.mozilla.org/en-US/docs/Web/HTML

> CSS

Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.CSS is among the core languages of the open web and is standardized across Web browsers according to W3C specifications. Previously, development of various parts of CSS specification was done synchronously, which allowed versioning of the latest recommendations. You might have heard about CSS1, CSS2.1, CSS3. However, CSS4 has never become an official version.

From CSS3, the scope of the specification increased significantly and the progress on different CSS modules started to differ so much, that it became more effective to develop and release recommendations separately per module. Instead of versioning the CSS specification, W3C now periodically takes a snapshot of the latest stable state of the CSS specification.

Courtesy of:

https://en.wikipedia.org/wiki/CSS

> Java script

JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based object-orientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

The ECMAScript standard does not include any input/output (I/O), such as networking, storage, or graphics facilities. In practice, the web browser or other runtime system provides JavaScript APIs for I/O.Although Java and JavaScript are similar in name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design.

Courtesy of:

https://en.wikipedia.org/wiki/JavaScript

> PHP

PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code- which may be any type of data, such as generated HTML or binary image data-would form the whole or part of an HTTP response. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be used for many programming tasks outside the web context, such as standalone graphical applications and robotic drone control. PHP code can also be directly executed from the command line.

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on a variety of operating systems and platforms.

Courtesy of:

https://en.m.wikipedia.org/wiki/PHP

Summary of Research Survey

<u>Paper 1: Inspiring Digitalization of Handicraft Market :- An empirical approach</u>

Tannistha Pal, Sudhanshu Shekhar Pandey, Arindam Deb Department of Computer Science & Engineering Department, NIT Agartala, Agartala, India

Now a days the life style of the people is different. People feel uncomfortable and time consuming for going crowded markets. So, E-Shopping is a boon as it saves lot of time. Online shopping is a process whereby consumers directly buy goods, services etc. from a seller without an intermediary service over the Internet. Shoppers can visit web stores from the comfort of their house and shop as by sitting in front of the computer. Online stores are usually available 24 hours a day and many consumers have internet access both at work and at home. So it is very convenient for them to shop Online.

Online Shopping Website for Handicraft is a form of electronic commerce which allows consumers to directly buy goods (which are handmade) or services from a seller over the Internet. Most of the shopping sites are focusing on electronic gadgets, clothes etc. but no one particularly focusing on the products which is of handmade. Although Tripura is very famous for Hand made products and it supply all over the India, but people are not getting its product because of poor transport facilities. So, this paper focuses on developing a shopping site for upliftment of handmade products of Tripura. So, it will be beneficial for our government, businessmen of Tripura as well as customers. This paper focuses on developing an website which will be useful to anyone who wants to purchase items using internet even living in small city or villages.

The contribution of this paper lies in designing an Online Shopping Website for Handicraft application because by performing online shopping lots of time can be consumed rather than spending time at physical markets. Further, using the available stores to sell the products, there is also the possibility of designing one's own customized Online Shopping Website for Handicraft application because custom designed platforms are expensive. Moreover, this paper will not only help the students to understand the concepts of web-application designing but it will be very easy to incorporate the idea of using programming techniques from the available visuals to understand how a piece of code appears on a user interface. The languages used to build this application are JavaScript, HTML, and JSP they are found to be useful while working on the technologies.

Advanced SWOT Analysis of E -Commerce website for handicraft selling

Awais Muhammad and Samin Tanzila (2012) IJCSI International Journal of Computer science Issues, Vol 9, Issue 2, No 2, pp. 569-574

A developing country may well attempt to be modernized if it introduces e-commerce effectively and efficiently. It will improve its output and lead to its competitive advantage. Information Technology (IT) has uplifted ecommerce worldwide. Now it is at ease to enter to a new market and marketers' can easily evaluate their product and company's performance.

A growing number of firms in various industries, such as banking, education, commerce, and tourism, etc. have improved their services by both incorporating technologies into their service delivery process. Integration of technology in services is becoming very common; however, very little academic research has been conducted to examine its influence. The issues related to E-commerce are also on the rise which is posing serious threat to its tall future and hence demands right strategies on part of marketers.

This website is developed to help interested aspirants to learn about application designing using JavaScript, JSP, Bootstrap and HTML from their basic capabilities. This application allows understanding the basics about the appearance of a first web page and how a complete working application can be built from scratch. It also allows understanding the concept of user integrated graphics and how JavaScript can be embedded into HTML.

Further, it gives insight about how the client-side language interacts with the server-side language and finally with the database. This shopping-cart application is designed primarily for interested candidates to learn and understand the concept of application development, and can also be used to teach e-commerce and web-application topics. The application can be downloaded and installed on different machines, and they can view the source code for all the different parts shown on the user interface to visually understand how a particular piece of code works. This shopping cart application is very versatile and can be enhanced by adding more functions and modified graphics for use with commercial purposes.

Design Thinking

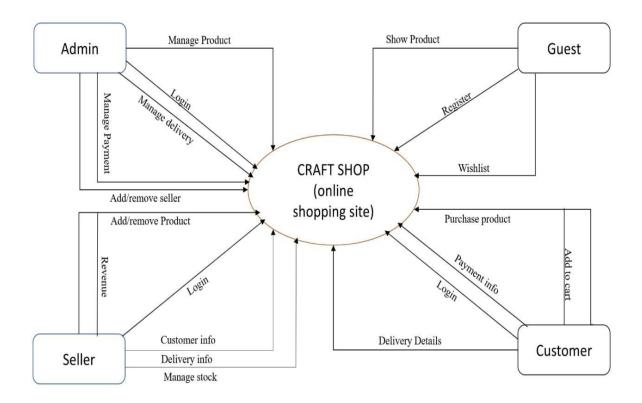
In Design Thinking we identified multiple problems. From that multiple problem we chosed key problem.

From key problem we found multiple solution and from them we found key solution.

Key problem: Artisans suffer from a lot due to being unorganized, lack of education, low capital, poor exposure, absence of market intelligence and a poor institutional framework.

Key solution: Describing about the product available like home décor, traditional wear, etc which is handmade and far away are can also be purchasable.

4. Design Calculation / System Flow



1 System Flow

5. UML Diagram & Canvases

5.1 AEIOU Summary Canvas

Understanding the problem of society is one of the biggest challenges for engineering student as till now they were making project on imaginary ideas. On the first day, we got the basic knowledge of design engineering. What is design engineering and why we need design engineering? How this subject will be useful to the student? All this questions has been cleared properly and also that how this activity will be useful in design engineering.

These are the steps of the project or problem. In this canvas, you have to find out...

- What is user to your problems?
- What is Environment of your project?
- What are activities?
- What is objects and Interaction of your problems?

These are the First step of the Project or Problem. List out all these things and make an AEIOU Canvas, it is the basic action of Design Engineering. It will help you to know about your problem or project.

Activity:

- ⇒ Online Purchase
- ⇒ Offers
- ⇒ Delivery of Items
- ⇔ Online Payment
- ⇒ Feedback

Environment:

- ⇒ Website
- ⇒ Supplier
- ⇒ Server
- ⇒ Home

Interaction:

- ⇒ Searching
- ⇒ Uploading
- ⇒ Describing
- **⇒** Contact
- **⇒** Payment
- ⇒ Finalization

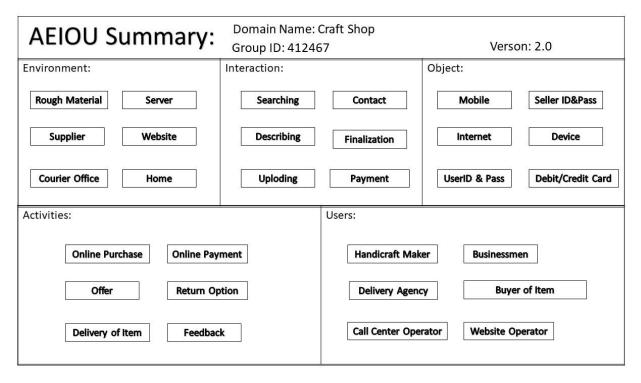
Object:

- ⇒ Seller ID and pwd
- □ User ID and pwd
- ⇒ Debit/Credit card
- ⇒ Device
- □ Internet

Users:

- ⇒ Handicraft Maker
- **⇒** Businessmen

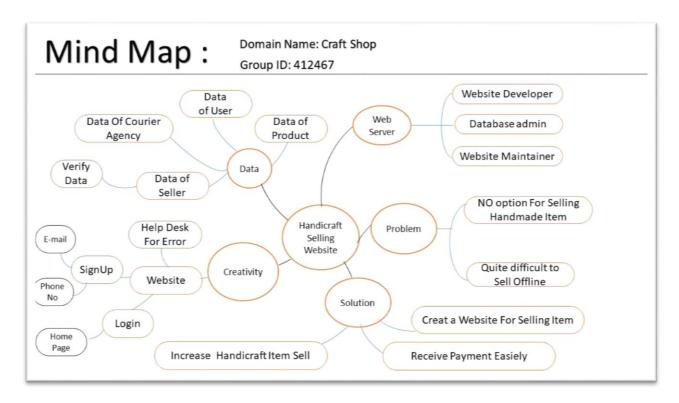
- ⇒ Call Center Operator
- ⇒ Fig. 5.1 AEIOU Canvas



AEIOU Canvas

5.2 Mind Mapping

A mind map is a graphical way to represent ideas and concepts. It is a visual thinking tool that helps structuring information, helping you to better analyze, comprehend, synthesize, recall and generate new ideas. Mind mapping is a simple technique for drawing information in diagrams, instead of writing it in sentences.



Mind Map Canvas

5.3 Empathy Canvas

These are the 2nd step of the Project or Problem. Understanding the problem of society is one of the biggest challenges for engineering studentas till now they were making project on imaginary ideas. So this was based on understanding the domains of the problem in broader sense which emphasized on interacting with the people of your domain area which included more of casual talk rather than technical session. And this activitywas named as Story boarding canvassing.

Users:

- ⇒ Website Operator
- □ Delivery Agency
- **⇒** Businessman
- ⇒ Seller

Stake Holders:

- ⇒ Technical Team
- ⇒ Call Center Operator

- **⇒** Businessman

Activities:

- ⇔ Online Selling
- ⇔ Online Buying
- ⇔ Online Payment
- **⇒** Business
- ⇒ Helpdesk
- ⇒ Delivery Facility
- ⇒ Recommendation
- ⇒ Item Description
- ⇒ Packaging

Story Boarding:

Happy:

One day I met a handicrafts artist they say that Ever since the Online sellingsource of handicrafts Item came, the people involved in handicrafts have received a proportionate profit from their hard work and in their income increase. Online handicraft selling website very helpful for handimaker.

5.4 Ideation Canvas

These are the 3rd step of the project or problem. From the user canvas, you have an idea what are the people? In ideation canvas, you haveto carry out which type of activities is related to your project and people? What is situation and location regarding to activities? Then after you find the possible solutions. It is depend or not depend to your activities.

People:

- □ Delivery Boy
- ⇒ Seller

- ⇒ Wholesaler

Activities:

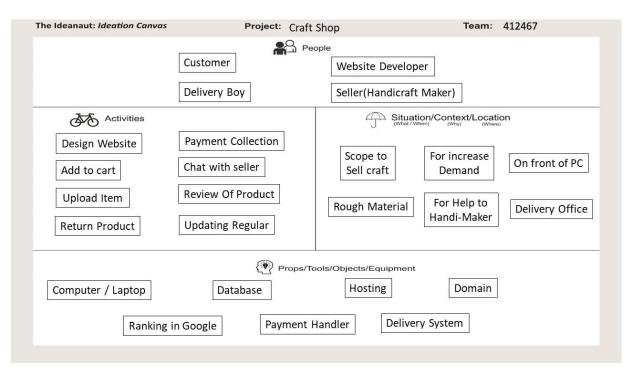
- ⇒ Website Designing
- ⇒ Regular Update
- ⇒ Payment Collection
- □ Upload Product
- ⇒ Review of Products
- ⇒ Add to Cart
- ⇒ Searching
- ⇔ Chat with Seller

Situation/Context/Location:

- ⇒ Increasing Demand
- ⇒ Box Packaging
- □ Laptop/Desktop
- □ Delivery Office

Props/Possible Solutions:

- ⇒ Database
- ⇒ Domain
- □ Laptop/Computer
- ⇒ Payment Handler
- ⇒ Rating (Google Ranking)
- □ Delivery System



Ideation Canvas

5.5 Learning needs Matrix

The LNM canvas contains 4 sections:

- 1) Theories/Methods/Application Process Involved/MathematicalRequirement
- 2) Applicable standards and design specifications/Principles & Experiments
- 3) Software/Tools/Simulation Methods/Skill
- 4) Component materials & strength criteria (exploration-varieties/testing requirements)

Theories/Methods/Application Process Involved/Mathematical Requirement:

- **⇒** Canvas
- □ Login/Register
 □ Login/
- ⇒ Add/Cancel Product
- ⇒ Feedback
- ⇒ Logout

Applicable standards and design specifications/Principles & Experiments:

- ⇒ Fulfilment of Order

Software/Tools/Simulation Methods/Skill:

- ⇒ Presentation Report
- ⇒ Laptop/PC with Internet

Component materials & strength criteria (exploration- varieties/testing requirements):

- ⇒ Software Decision
- ⇒ Visual Studio Code
- ⇒ XAMPP
- ⇒ MySQL

5.6 Product Development Canvas

This step is for development of the product. From possible solutions, you have idea about what is product? Our product is, Sell handicraft items online on website. So in this canvas, following things is todo.

Purpose:

- ⇒ Save the time
- ⇒ Store the data for long time
- ⇒ Recover itanytime
- ⇔ Online Selling

People:

- ⇒ Seller
- ⇒ Admin
- ⇒ Developer

Product Experience:

- ⇒ Easy to use
- □ User friendly
- ⇒ Accurate
- ⇒ Attractive Design

Product functions:

- ⇒ Return
- □ Quick Update
- ⇒ Review & Feedback

Product Features:

- □ Quick Searching
- ⇔ Chat with Seller

Components:

- ⇒ Server
- ⇒ Database

Customer Revalidation:

- ⇒ OTP
- ⇒ Email Verification

Reject/Redesign/Retain:

- ⇒ Need More Security
- ⇒ Backend Improvement

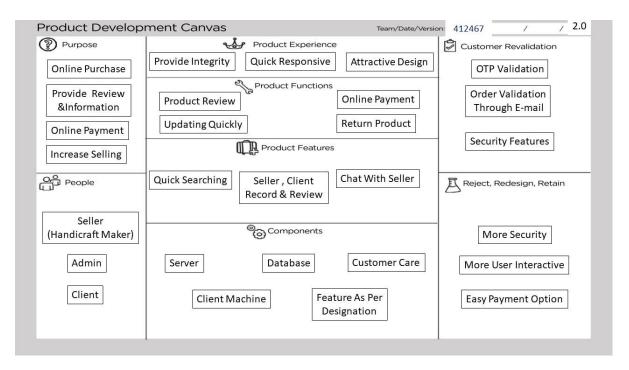


Fig. 5.6 Product development Canvas

5.7 Use Case Diagram

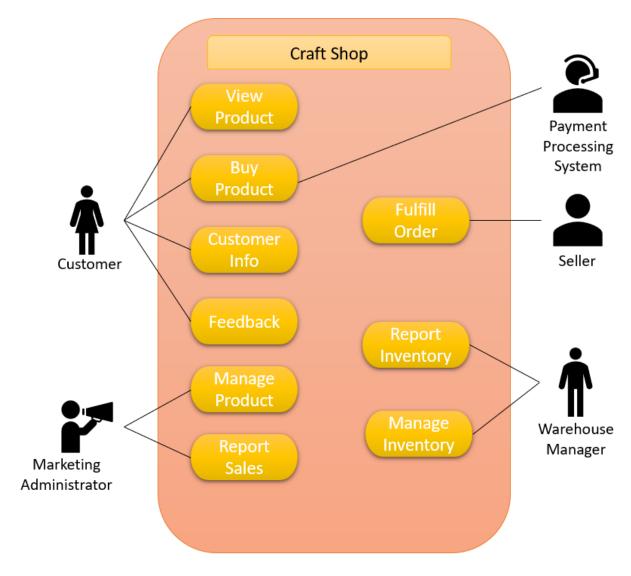


Fig. 5.7 Use-Case Diagram

5.8 Activity Diagram

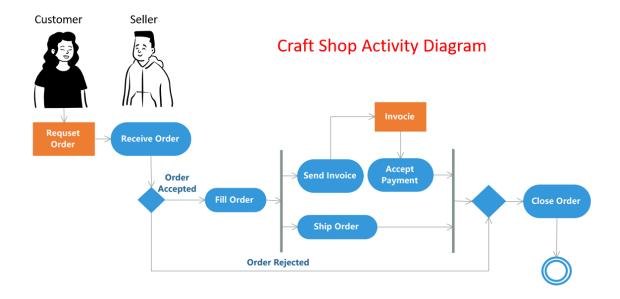


Fig. 5.8 Activity Diagram

5.9 Sequence Diagram

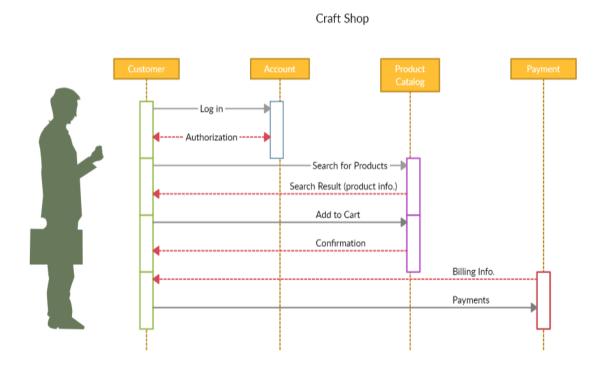


Fig. 5.9 Sequence Diagram

5.10 Class Diagram

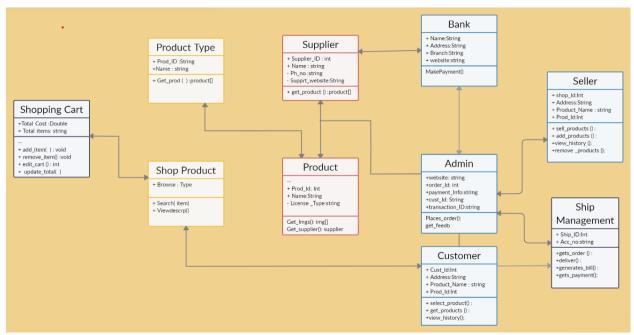


Fig. 5.10 Class Diagram

6. Prototype

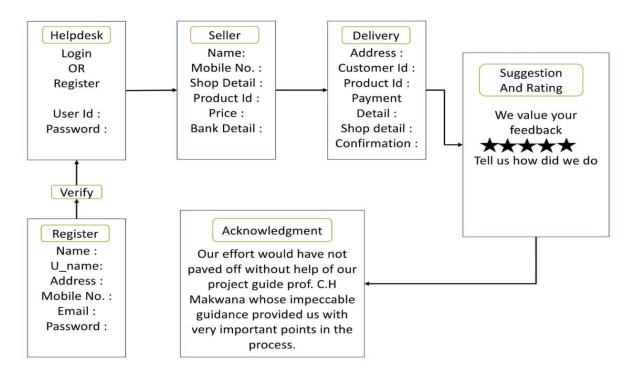
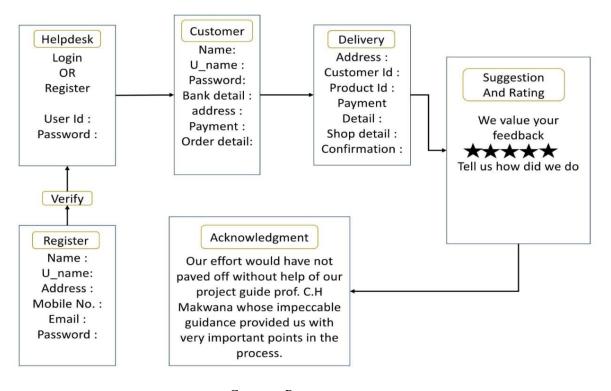


Fig. 6.1 Seller Prototype



Customer Prototyp

7. System design

7.1 Database Design

S.No	Column	Туре	Not Null?	Key	Description
1	id (Primary)	int(11)	Yes	PRIMARY KEY	Database Stored id
2	username	varchar(255)	Yes	-	Admin Username
3	password	text	Yes	-	Admin password

Table 7.1 Admin

S.No	Column	Type	Not Null?	Key	Description
1	id (Primary)	int(11)	Yes	PRIMARY KEY	Database stored id
2	u_id	int(11)	Yes	-	User id
3	p_id	int(11)	Yes	-	Product id
4	name	varchar(255)	Yes	-	Name of user
5	price	Int(100)	Yes	-	Price of product
6	quantity	Int(10)	Yes	-	Product quantity
6	image	Varchar(100)	Yes	-	Image of product

Table 7.2 Cart

S.No	Column	Туре	Not Null?	Key	Description
1	id (Primary)	int(11)	Yes	PRIMARY KEY	Database stored id
2	user_id	int(11)	Yes	-	User id
3	email	varchar(255)	Yes	1	Email id of user
4	message	text	Yes	1	message of user
5	name	varchar(255)	Yes	-	Name of user
6	number	varchar(10)	Yes	-	Number of user

Table 7.3 Messages

S.No	Column	Туре	Not Null?	Key	Description
1	id (Primary)	int(11)	Yes	PRIMARY KEY	Database stored id
2	name	varchar(255)	Yes	-	Product name
3	details	text	Yes	-	Product description
4	price	float	Yes	-	Product Price
5	img1	varchar(255)	Yes	-	Product image 1
6	img2	varchar(255)	Yes	-	Product image 2
7	img3	varchar(255)	Yes	-	Product image 3

Table 7.4 Products

S.No	Column	Туре	Not Null?	Key	Description
1	id (Primary)	int(11)	Yes	PRIMARY KEY	Database stored id
2	user_id	int(11)	Yes	-	User id
3	name	varchar(255)	Yes	-	Name of user
4	number	varchar(10)	Yes	-	Number of user
5	email	varchar(25)	Yes	-	user email
6	method	varchar(255)	Yes	-	Payment method
7	address	varchar(255)	Yes	-	User address
8	Total_product	Varchar(100)	yes	-	Quantity of product
9	Total_price	Int(100)	Yes	-	Price of product
10	Placed_on	date	Yes	-	Date of Delivery
11	Payment_status	Varchar(100)	Yes	-	status of payment

Table 7.5 Orders

S.No	Column	Type	Not Null?	Key	Description
1	id (Primary)	int(11)	Yes	PRIMARY KEY	Database stored id
2	email	varchar(255)	Yes	-	Email id of user
3	password	text	Yes	-	Password of user
4	name	varchar(255)	Yes	-	Name of user

Table 7.6 Users

S.No	Column	Type	Not Null?	Key	Description
1	id (Primary)	int(11)	Yes	PRIMARY KEY	Database stored id
2	u_id	int(11)	Yes	-	User id
3	p_id	int(11)	Yes	-	Product id
4	name	varchar(255)	Yes	-	Name of user
5	price	Int(100)	Yes	-	Price of product
6	image	Varchar(100)	Yes	-	Image of product

Table 7.7 Wishlist

7.2 Interface Design

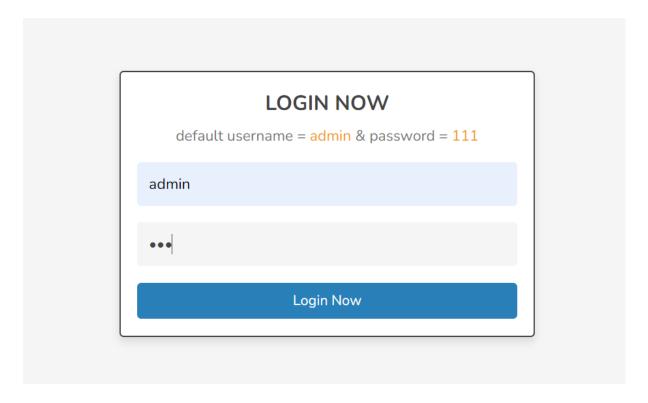


Figure 1 Admin Login

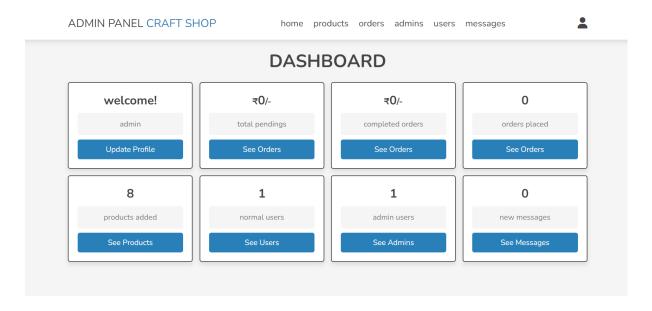


Figure 2 Admin dashboard

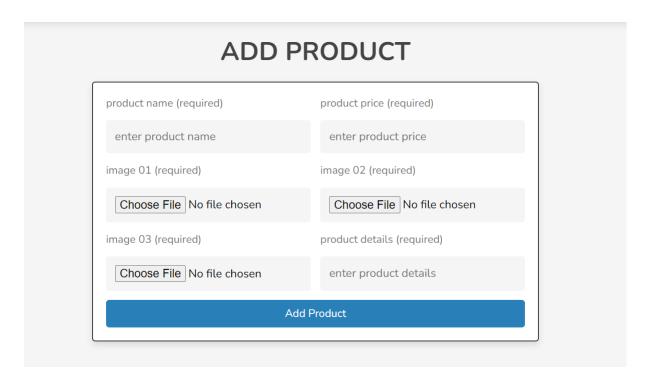


Figure 3 Add Product

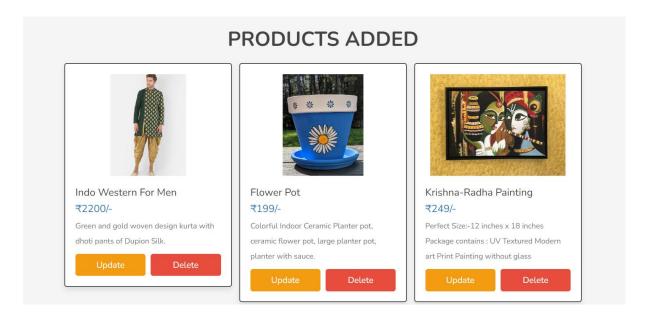


Figure 4 Added Product

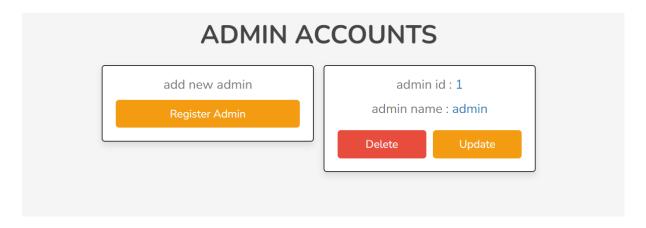


Figure 5 Admin Account

ADMIN PANEL CRAFT SHOP

home products orders admins users messages

USER ACCOUNTS

user id : 2
username : jaydip poriya
email : jaydipj046@gmail.com
Delete

Figure 6 User Account





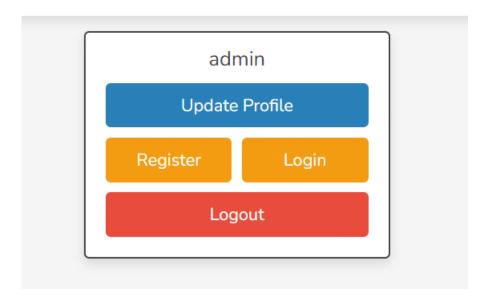


Figure 7 Admin Profile Menu

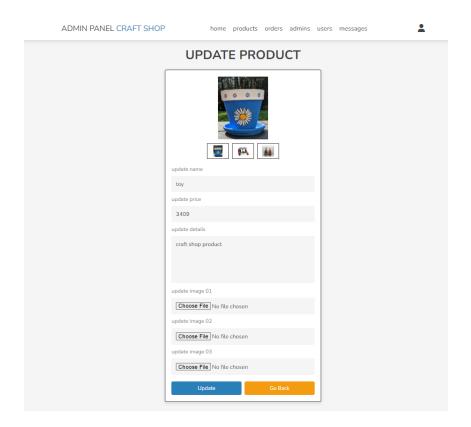


Figure 8 Placed Orders

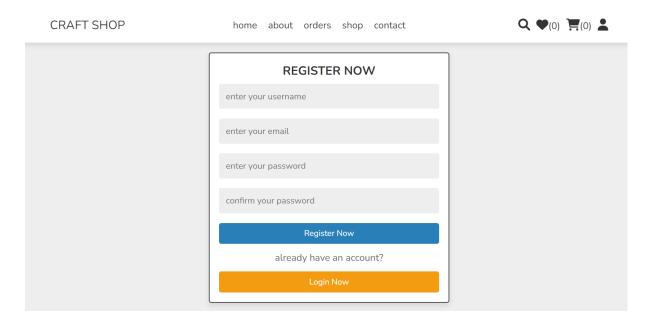


Figure 9 User Registration

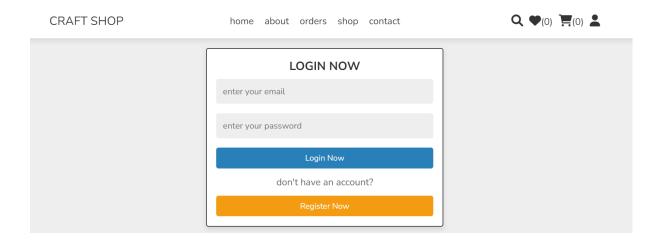
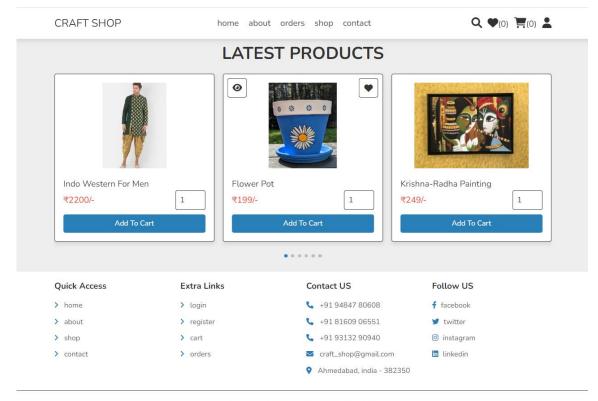


Figure 10 User Login



Figure 11 Home page_1



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Figure 12 home page_2

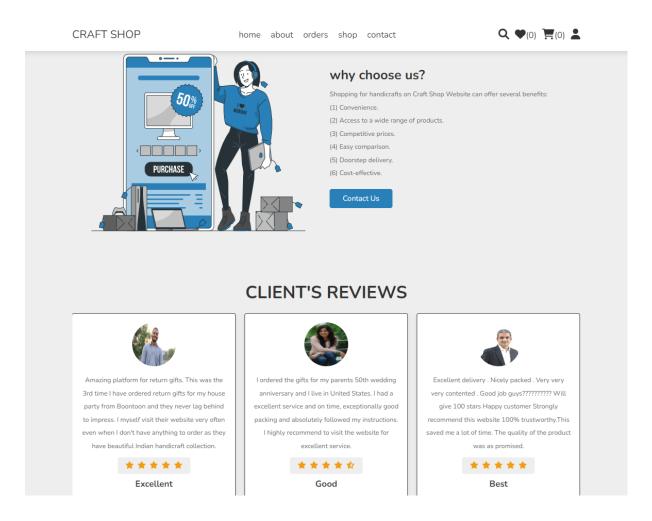


Figure 13 About us

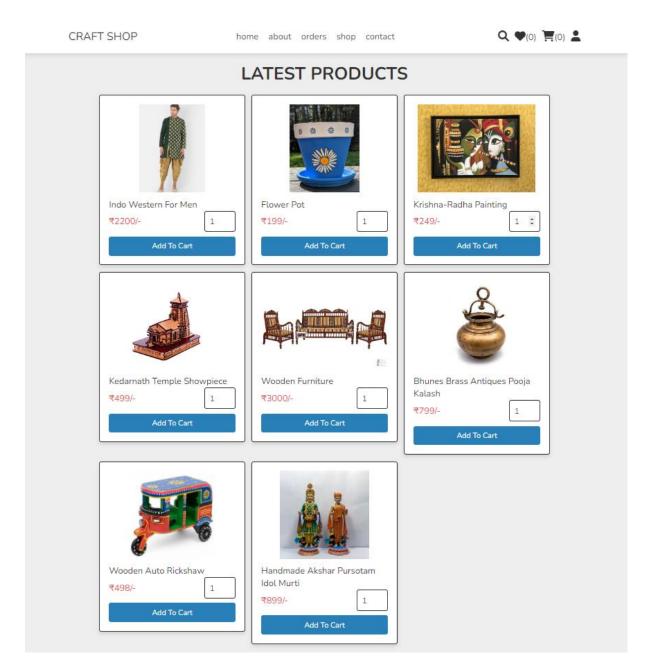


Figure 14 Shop Page

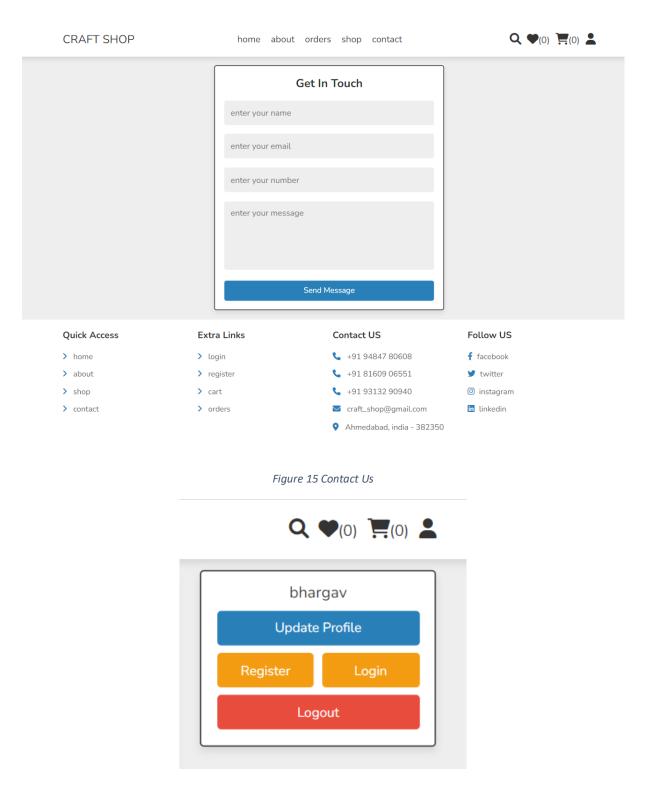


Figure 16 User Profile Menu

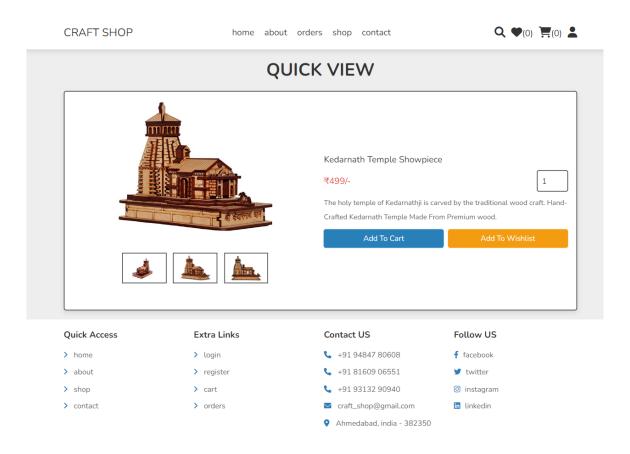


Figure 17 Product View

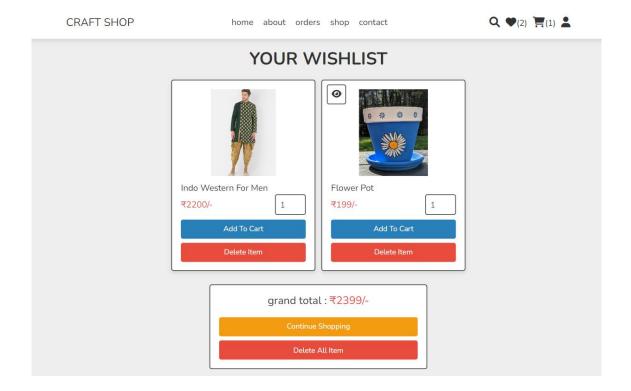


Figure 18 Wishlist

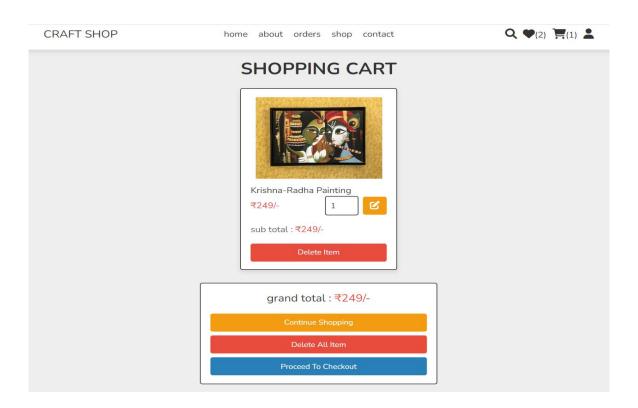


Figure 19 Shop Cart

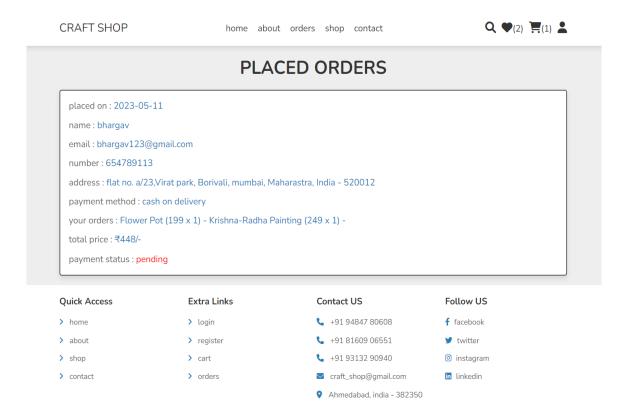


Figure 20 User Order

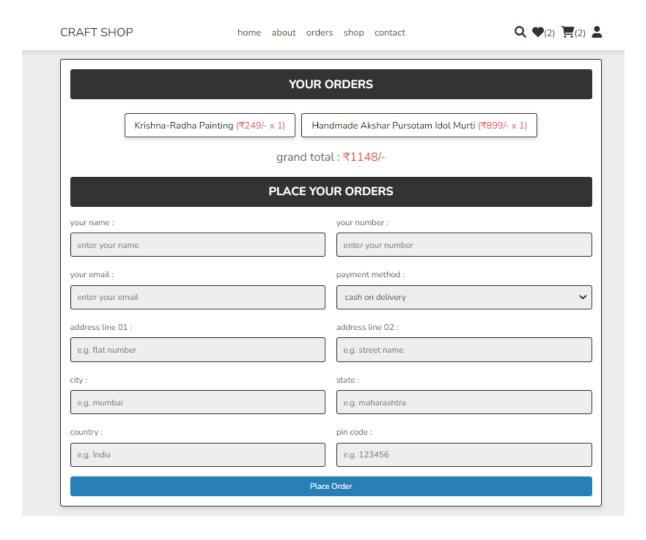


Figure 21 Place your order

8. Conclusion and future scope

At last it can conclude that the Online Selling Website was a real learning experience. Online Job Selling Website provide the wider areas of Selling Handmade Items like handlooms and crafts facilities with easy and quick access to opportunities.

It make perfect since in today's digital landscape. It allows the customer to sell the creative handmade products to other customers with the help of online platform. It also promote the culture and art of India and also Made in India movement, along with information about the product specifications, features and prices.

Future scope:

• In future we are thinking to make an website Online Selling Website, which deal specifically with selling manmade items of art and cultural like crafts and traditional wears.