

Project Report on

“RESALE RETREATE”

SUBMITTED IN FULFILLMENT FOR AWARD OF DEGREE

IN

Bachelor of Computer Application

(2024-25)

Submitted By:

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Under the Guidance

Of

Ms. Devangiba Gohil

Submitted To



**SWAMI SAHAJANAND COLLEGE OF COMPUTER
SCIENCE**

Swami Sahajanand College of Computer Science

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Plot No.639, ISCON Mega City, Near M.K. Bhavnagar University Karyalaya, Bhavnagar



SWAMI SAHAJANAND COLLEGE OF COMPUTER SCIENCE

Certificate

This is to certify that Ms. **Rajpura Krisha Bhadresh bhai**
Student Enrol. No. **3020206120220247** has successfully completed
his/her B.C.A. SEM -VI project towards partial fulfilment of BCA
program.

Principal

Examiner

Signature: _____

Signature: _____

Date: _____

Date: _____

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Certificate

This is to certify that Ms. **Trivedi Manya Jignesh Bhai**
Student Enrol. No. **3020206120220307** has successfully completed
his/her B.C.A. SEM -VI project towards partial fulfilment of BCA
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Acknowledgement

Every work that one complete successfully on the constant encouragement, goodwill and support of the people around. We, hereby, avail this opportunity to express our heartfelt gratitude to a number of people who extended their valuable time, full support and cooperation in developing this project. We convey our heartfelt gratitude to our collage "**Swami Sahajanand College of Computer Science, Bhavnagar.**" for giving us this precious opportunity to work for the real-time project.

we wish to express my deep sense of gratitude and honour toward head of **Maharaja Krishnakumarsinhji Bhavnagar University** for given chance me to work with study.

We owe the success of the project to our Project Guide **Ms. Devangi Gohil** for providing excellent guidance for this project. He is one of the major sources behind the success of the project.

Finally, yet importantly, we would like to express our heartfelt thanks to our beloved Parents for their blessings, our Friends/Classmates for their help and wishes for the successful completion of this project.

Place: - SSCCM, Bhavnagar

Date: -

Name of Students

1) Rajpura krisha

2) Trivedi Manya

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Preface

There is a project work as a subject in B.C.A. Sem.-VI syllabus. The main purpose of this project is to get practical as well as theoretical knowledge in any business firm or in any organization.

Project helps a student in growing in the direction of practical implementation of any system. The project checks the patience and working ability of the student and helps in achieving a very important thing that is experience.

During this project work we tried my level best to be the professionals and also tried to realize the fact that I am capable enough to face the challenges.

we prepared documents of **Resale Retreate** . This is my pleasure to present this project work as our subject. I learned a lot by doing this project. I realized that only the knowledge of theoretical subjects is not sufficient but the practical knowledge is more important.

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Introduction

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Background

- The "Resale Retreat" project is a platform designed to revolutionize the sale and purchase of used items.
- Focuses on supporting the principles of reuse and recycling.
- Aims to reduce waste and promote sustainable consumption practices.
- Connects individuals who value the life and history of pre-loved goods.
- Offers an alternative to the fast-paced consumer culture by cherishing and preserving vintage and gently used products.
- Seeks to make a positive environmental impact by reducing the carbon footprint associated with manufacturing new items.
- Fosters meaningful connections between buyers and sellers.

Objective

- Bring vintage or gently used products in good condition into more homes.
- Allow customers to list items for sale effortlessly.
- Enable other users to explore and purchase from a diverse range of listed products.
- Extend the life of items and connect like-minded individuals who appreciate sustainability.

Purpose & scope

- **Promote Reusability:**
 - Users can list products for sale by providing essential details and uploading images.
 - Facilitates the reusability of items, preventing them from ending up in landfills.
- **Encourage Recycling:**
 - Simplifies the process of buying and selling pre-owned goods.
 - Fosters a culture of recycling, where products find new homes instead of being discarded.

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- **User-Friendly Interface:**
 - Ensures customers can easily upload their items for sale and navigate through various product listings.
 - Enhances user engagement and satisfaction
- **Second Chance for Precious Goods:**
 - Provides items with sentimental or significant value a second chance to be cherished by new owners.
 - Adds a personal touch to the process, creating meaningful connections between buyers and sellers.
- **Environmental Impact:**
 - Supports the circulation of used products, significantly reducing the environmental footprint.
 - Contributes to a more sustainable and eco-friendly future.
- **Community Building:**
 - Cultivates a community of individuals who share a common interest in sustainability and responsible consumption.
 - Encourages interactions, story exchanges, and support for each other's journey toward a greener lifestyle.

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Requirement & Analysis

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1. a. Problem Definition

Today everything is getting expensive and its not always possible or intelligent to buy new items . this way people can buy many day to day items in reasonable prize and good condition .

b. Requirement specification

- User can upload their items in specific category
- User can list their product on sale by providing its details and other specifications
- Other user can purchase all the listed items which fits them the best.

c. Software Hardware Requirement

* software requirements :

Operating System	Windows 11
Front end	HTML ,CSS , JavaScript
Backend	Php
Editor	Notepad ++
Documentation tool	Microsoft word
Server	XAMPP

* Hardware requirements :

Processor	64-bit, CORE i3, 1.70GHz
RAM	8 GB
Storage	80 GB

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d. Planning & Scheduling

i. Planning

Activities	Time Duration
Requirement Gathering	1 Weeks
Design	2 Weeks
Development & Coding	3 Weeks
Quality Assurance	2 Weeks
Testing & Implementation	1 Weeks

ii. Scheduling

	December	January	February
Requirement Gathering	✓		
Design	✓	✓	
Development & Coding		✓	✓
Quality Assurance			✓
Testing & Implementation			✓

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System Design

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1. Project Analysis

- **Overview:**

“ResaleRetreat” is PHP based website for establishing base for sustainability and recycling .people can upload their belongings for sale and other users can purchase it . this way a platform is created for both the users for buying and selling , which in turn provides more sustainability , recycling and reuse of the products.

- **Information about website :**

Here one can upload their belongings which are already in good condition and other users can purchase such products that are up for sale , with increasing inflammation it is not clever to purchase everything brand new, But through Resale retreat the products that are in good condition and vintage can be reused and is also cost effective at the same time.

- **Structure :**

The structure of the website is divided into following sections...

- ❖ Upload
- ❖ Shop
- ❖ Sign up/ sign in
- ❖ About us
- ❖ Contact us

- **Categories information :**

The product categories are dynamically set and bifurcated into following..

- ❖ Furniture
- ❖ Clothing
- ❖ Accessories
- ❖ Gadgets
- ❖ Auto-mobiles
- ❖ Miscellaneous

- **Sign up/Sign in :**

The new users can create their accounts and sign in later by entering correct user_id , password and email.

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- **Process :**

When one visits the website , after signing in the user can either upload their products for sale by entering the required details or purchase the products that are already up for selling ,to purchase the items add the products to the cart and checkout .

- **Contact us :**

For any query user may visit FAQs or contact us through our work handle

- Email : resaleretreate@gmail.com
- Contact no : 9922334451

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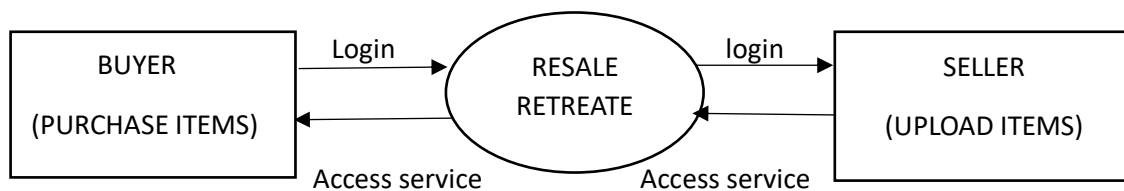
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- **DFD(Data Flow Diagram)**

Data flow diagrams are used to understand the flow and mechanism of the website ,
Notations for Data flow diagrams are as follows...

- 1.Process : the processes are defined inside the circles.
- 2.Entity : the external entities are mentioned into rectangles .
3. Arrow : the arrows indicates the flow of diagrams
- 4.Datastore : the open ended rectangles shows the logical files and their viewing state .

1. Context level :

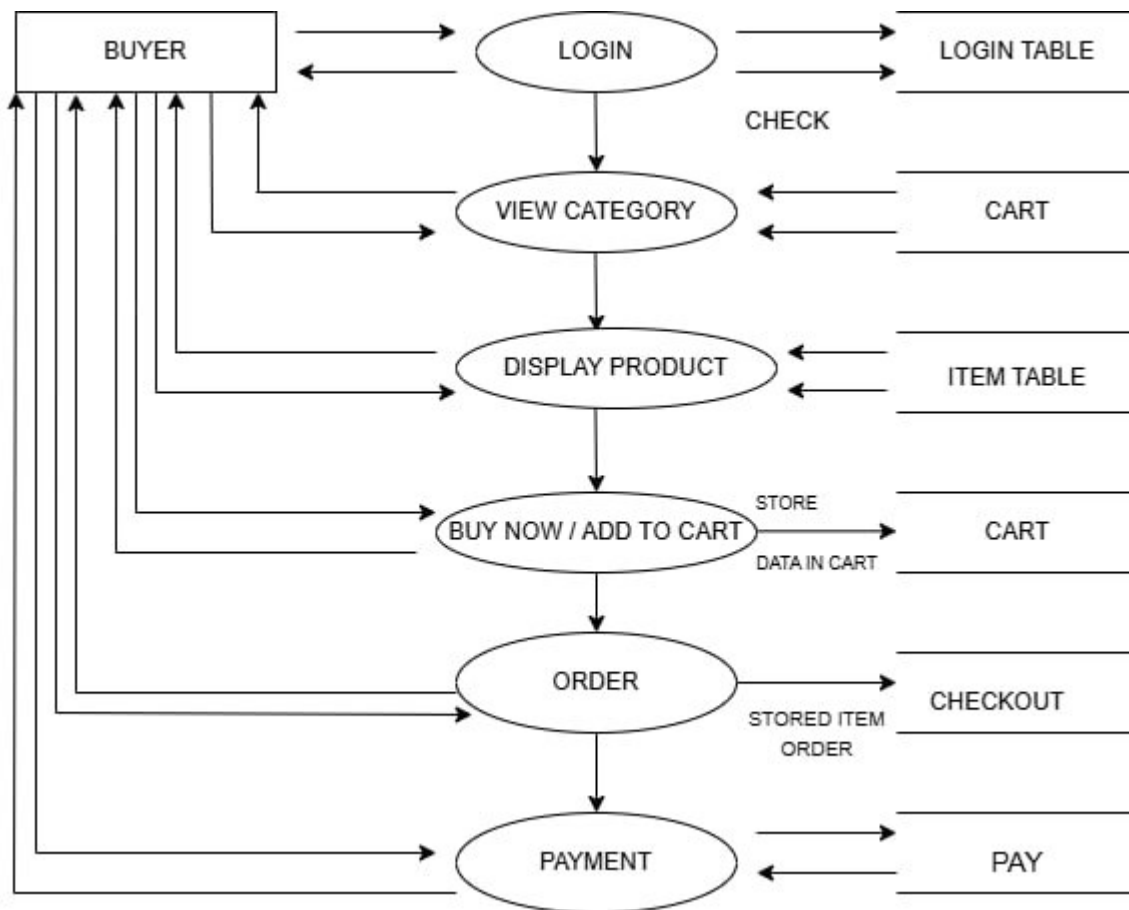


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2.1 First level buyer :

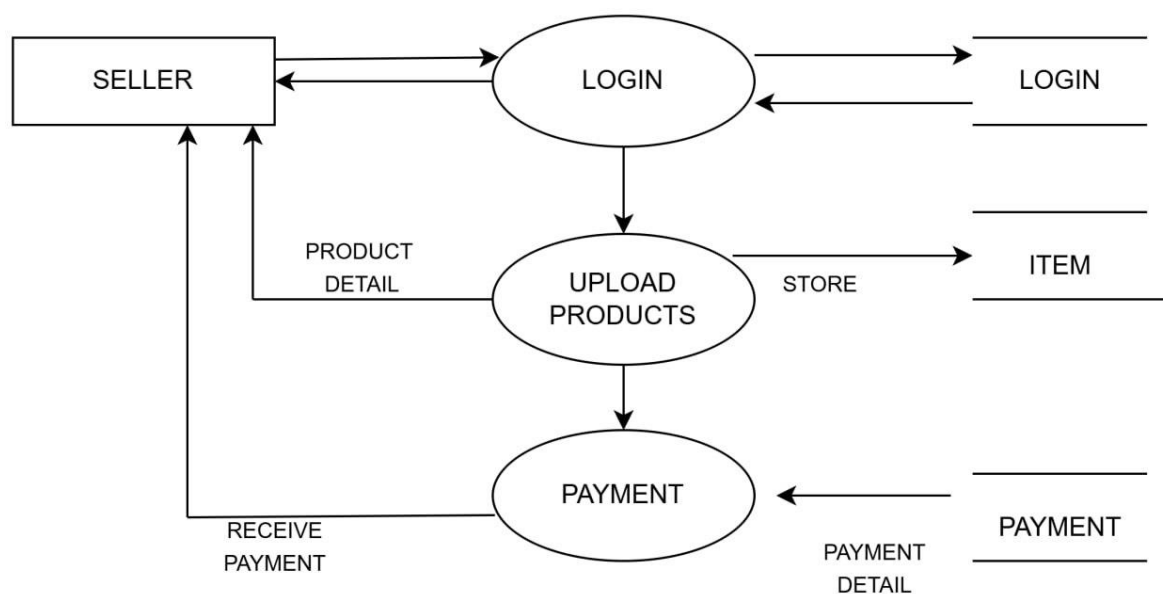


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2.2 first level seller :

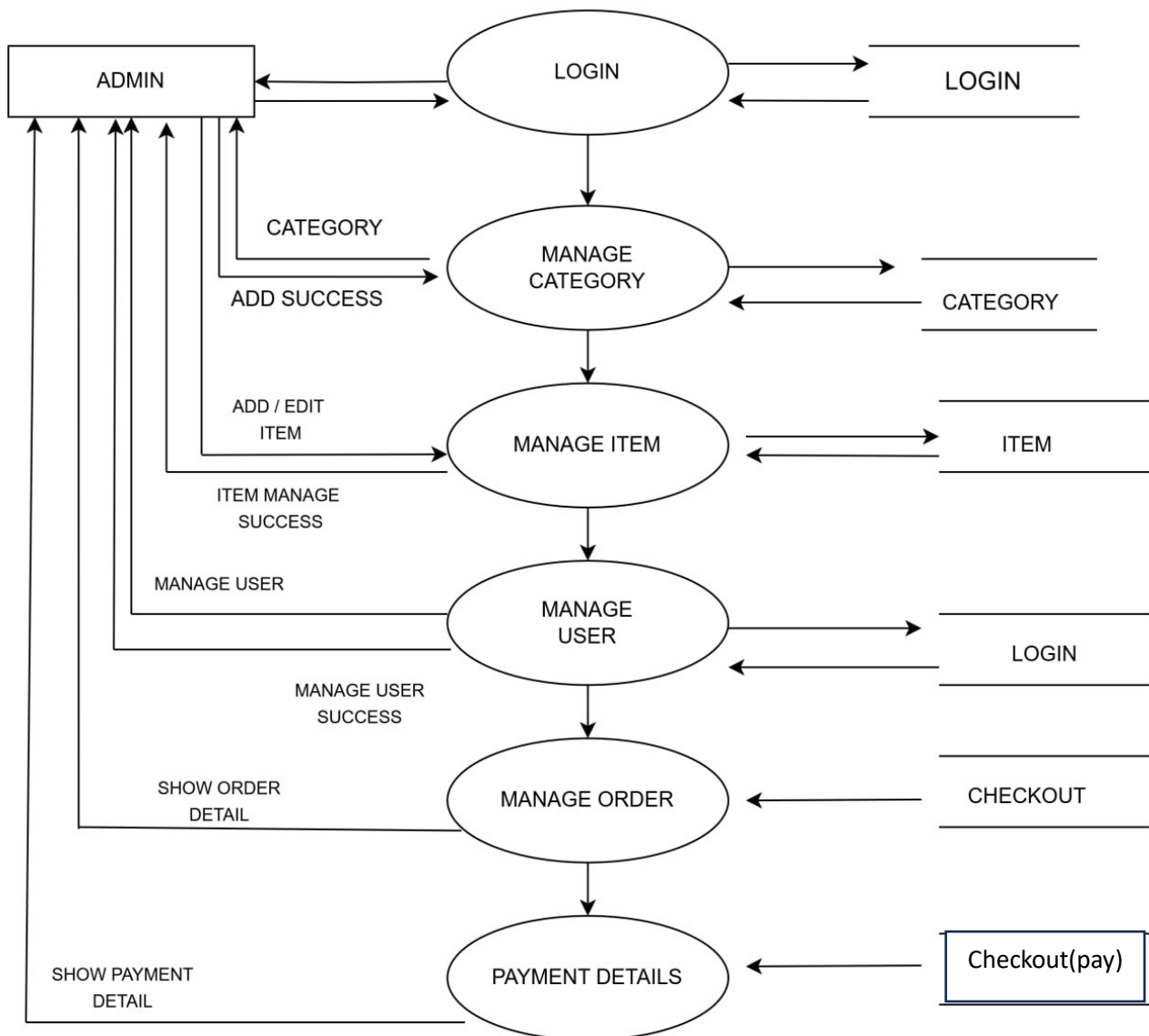


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2.3 first level admin :

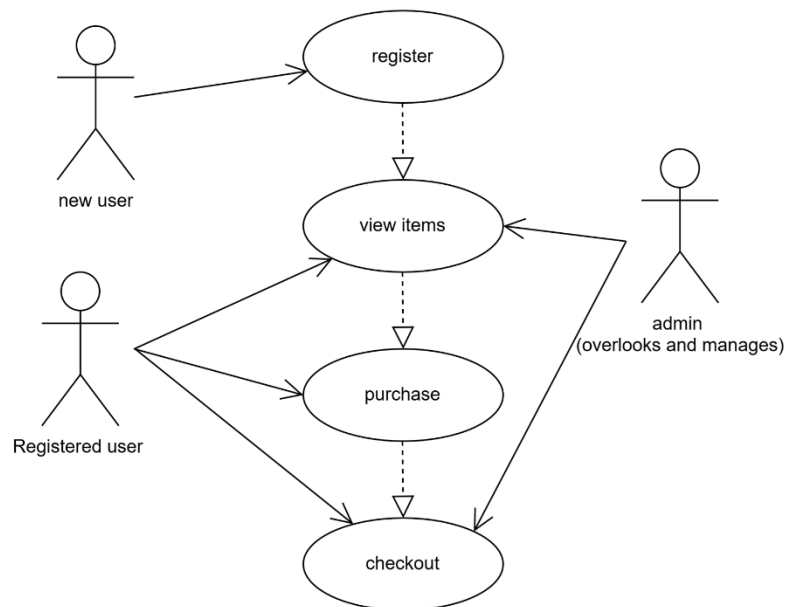


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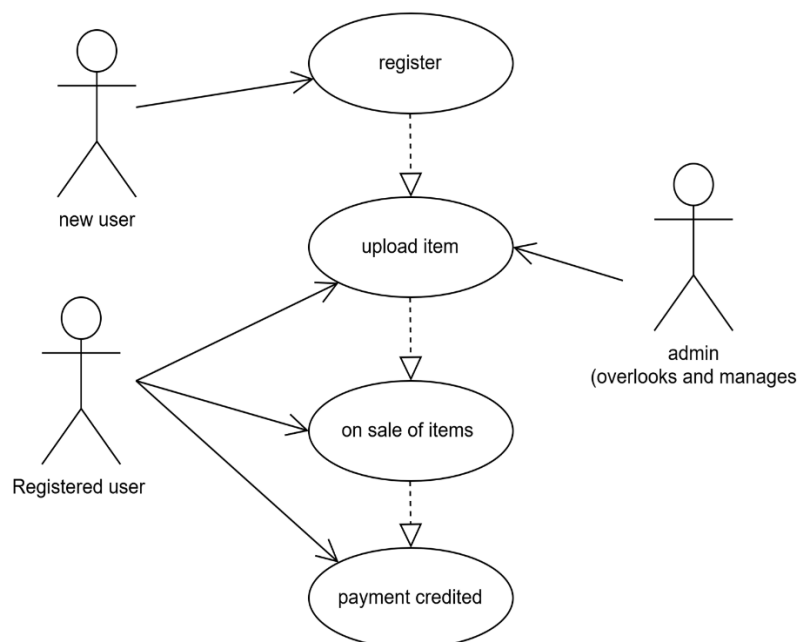
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USE CASE :



Upload :

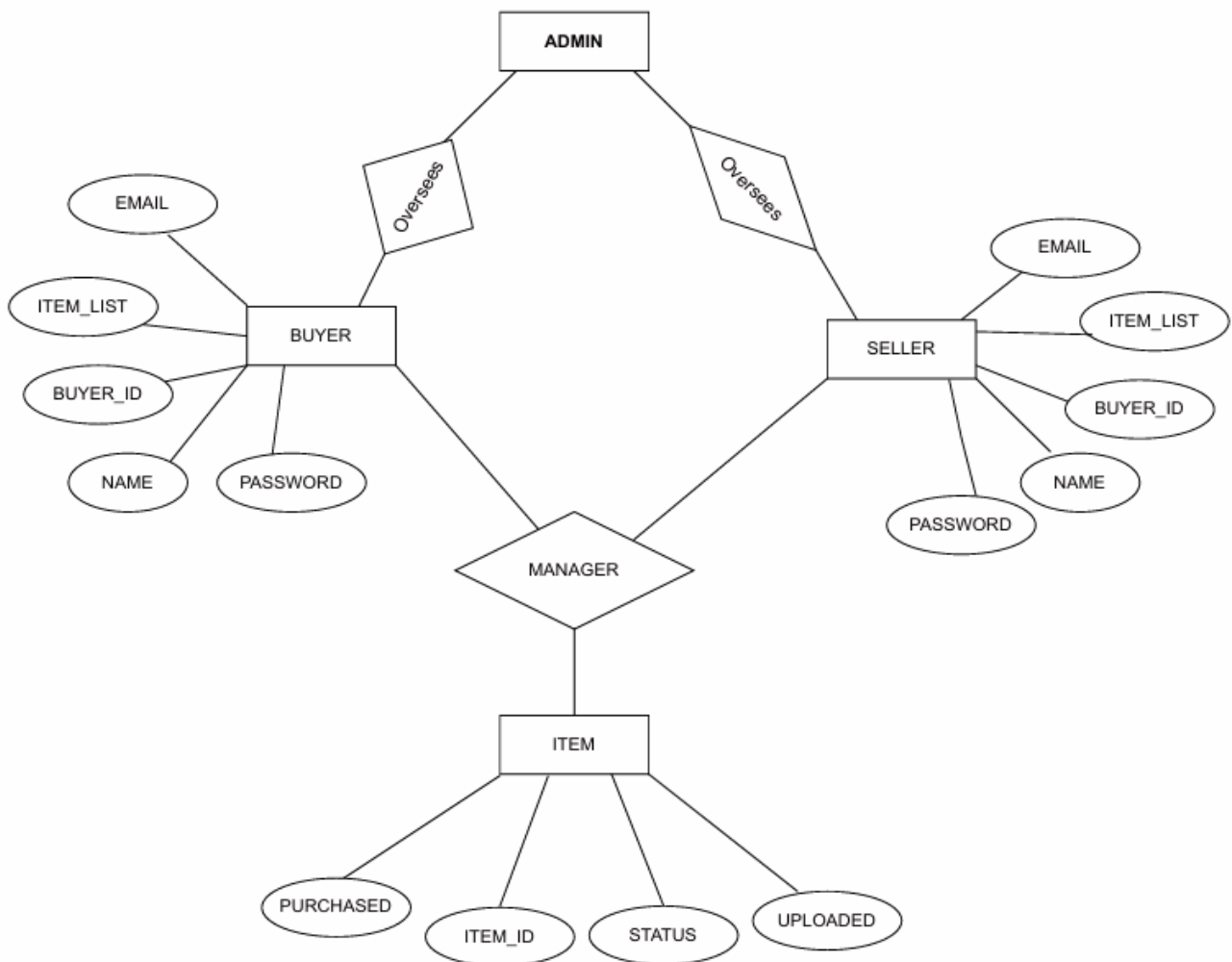


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ER diagram :



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Data Dictionary :

1.Table Name :Category

Table Description: category of products for sale

Sr. No.	Field Name	Data type	Size	Constraints
1	C_id	Integer	3	Primary Key
2	C_name	Varchar2	15	

Category table is used for fetching categories dynamically into the sub menu of “SHOP” section and is connected through foreign key with the “items” table to categorize the uploaded product by the user .

2.Table name :checkout/payment

Table Description : the record of the items sold and its details

Sr. No.	Field Name	Data type	Size	Constraints
1	name	Varchar2	20	
2	id	Integer	4	Primary key
3	cost	Integer	10	
4	Fname	Varchar2	10	
5	Lname	Varchar2	10	
6	email	Varchar2	25	
7	contact	Varchar2	10	
8	address	Varchar2	100	

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3. Table name : cart

Table Description : list of products added to the cart .

Sr. No.	Field Name	Data type	Size	Constraints
1	Type	Varchar2	20	
2	Id	integer	4	
3	Product_id	integer	4	Primary key
4	Pname	Varchar2	20	
5	Cost	integer	10	
6	username	Varchar2	200	
7	Photo	Varchar2	100	

when user adds an item to cart the item details are fetched into the cart table
And checked out at the end .

4. Table name : admin

Table Description : admin username and password.

Sr. No.	Field Name	Data type	Size	Constraints
1	ID	integer	3	Auto increment
2	Username	Varchar2	30	Primary key
3	password	Varchar2	30	

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5. Table name :upload

Table Description :

list of products that are uploaded by the user through form .

Sr. No.	Field Name	Data type	Size	Constraints
1	Type	Varchar2	20	
2	Id	integer	4	Primary key
3	Pname	Varchar2	20	
4	Height	Float		
5	Width	Float		
6	Length	Float		
7	Pdate	Date		
8	Edate	Date		
9	Cost	integer	10	
10	Info	Varchar2	200	
11	Photo	Varchar2	100	
12	Name	Varchar2	20	
13	Address	Varchar2	200	
14	Pincode	integer	10	
15	contact	integer	10	

The upload table is connected to the category table through foreign key on the column with primary key . the column id is connected in both the tables dynamically.

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6. Table name :login

Table Description :

user name, password and email information of users.

Sr. No.	Field Name	Data type	Size	Constraints
1	Username	Varchar2	15	
2	Password	Varchar2	15	
3	Email	Varchar2	25	

The username , password and email are stored here and is tallied to the user input
An login is approved accordingly.

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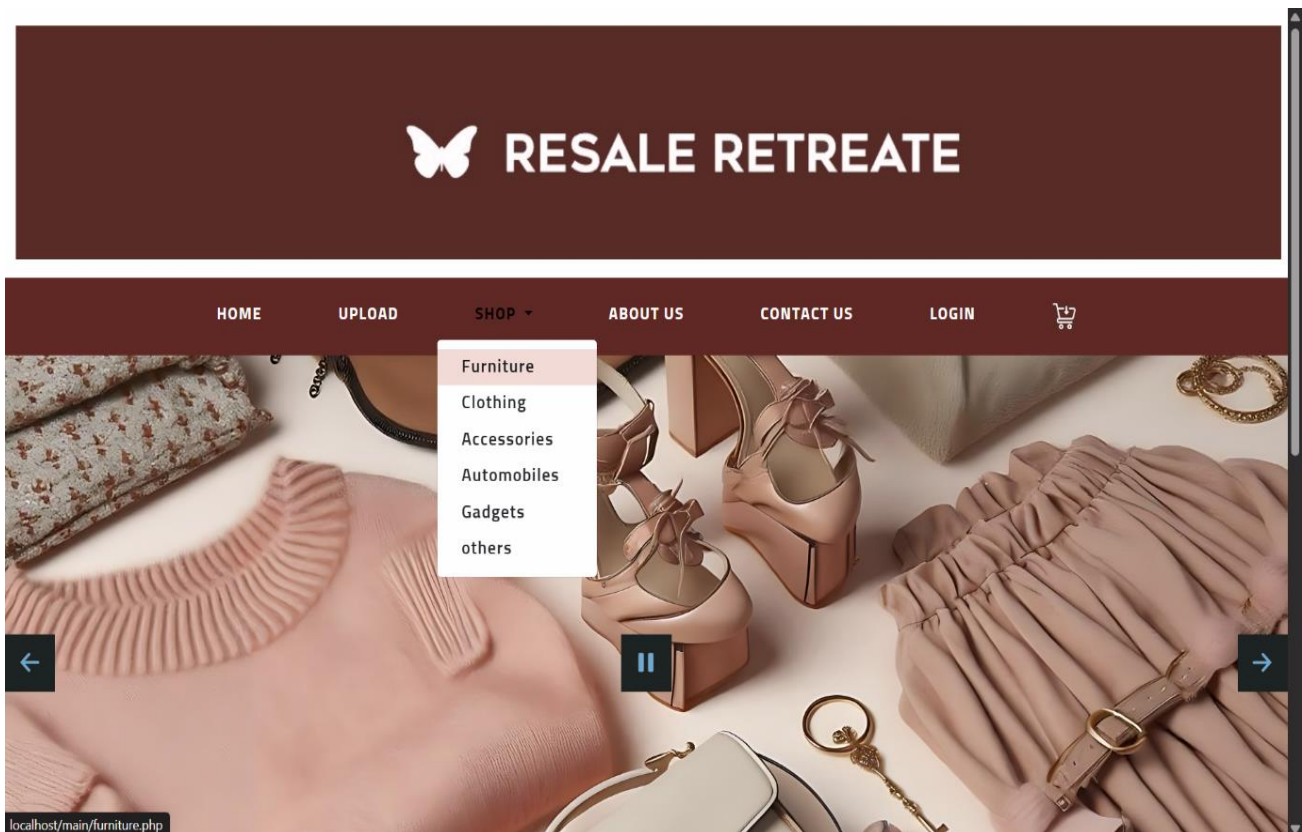
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Screen Layout

1. Screen Name : Home Page

Screen Purpose: This is Home page of the website.

Screen Shot:



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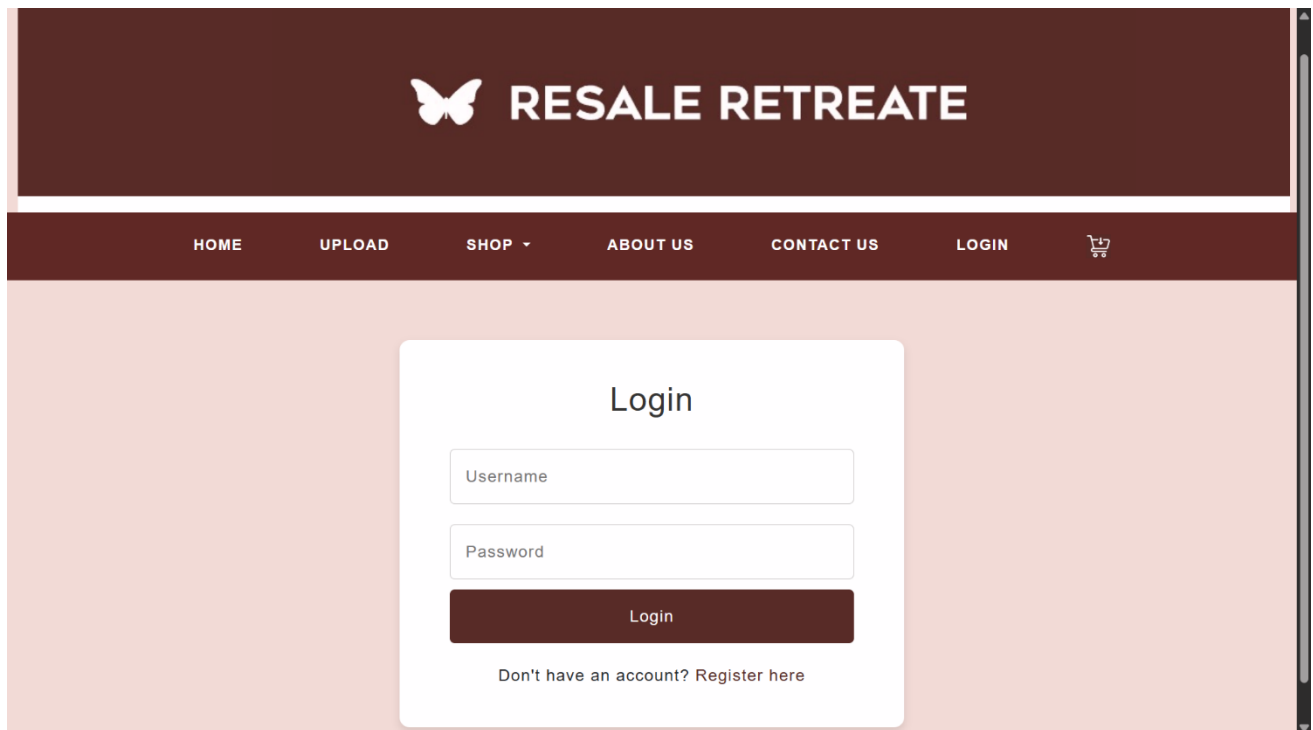
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2. Screen Name : Login/register Facilities

Screen Purpose: sign in/ sign up portals.

Screen Shot:



The screenshot displays the login interface for 'RESALE RETREATE'. The header features a dark maroon banner with a white butterfly logo and the brand name. Below this is a navigation bar with links: HOME, UPLOAD, SHOP (with a dropdown arrow), ABOUT US, CONTACT US, LOGIN, and a shopping cart icon. The main content area has a light pink background and contains a white login form. The form is titled 'Login' and includes input fields for 'Username' and 'Password', followed by a dark maroon 'Login' button. A link 'Don't have an account? Register here' is positioned at the bottom of the form.

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3. Screen Name : upload

Screen Purpose: for uploading items on the website with the purpose to sell.

Screen Shot:

RESALE RETREAT

HOME UPLOAD SHOP ▾ ABOUT US CONTACT US LOGOUT

Category:

Product Name:

Product Height (in inches):

Product Width (in inches):

Product Length (in inches):

Purchase Date:

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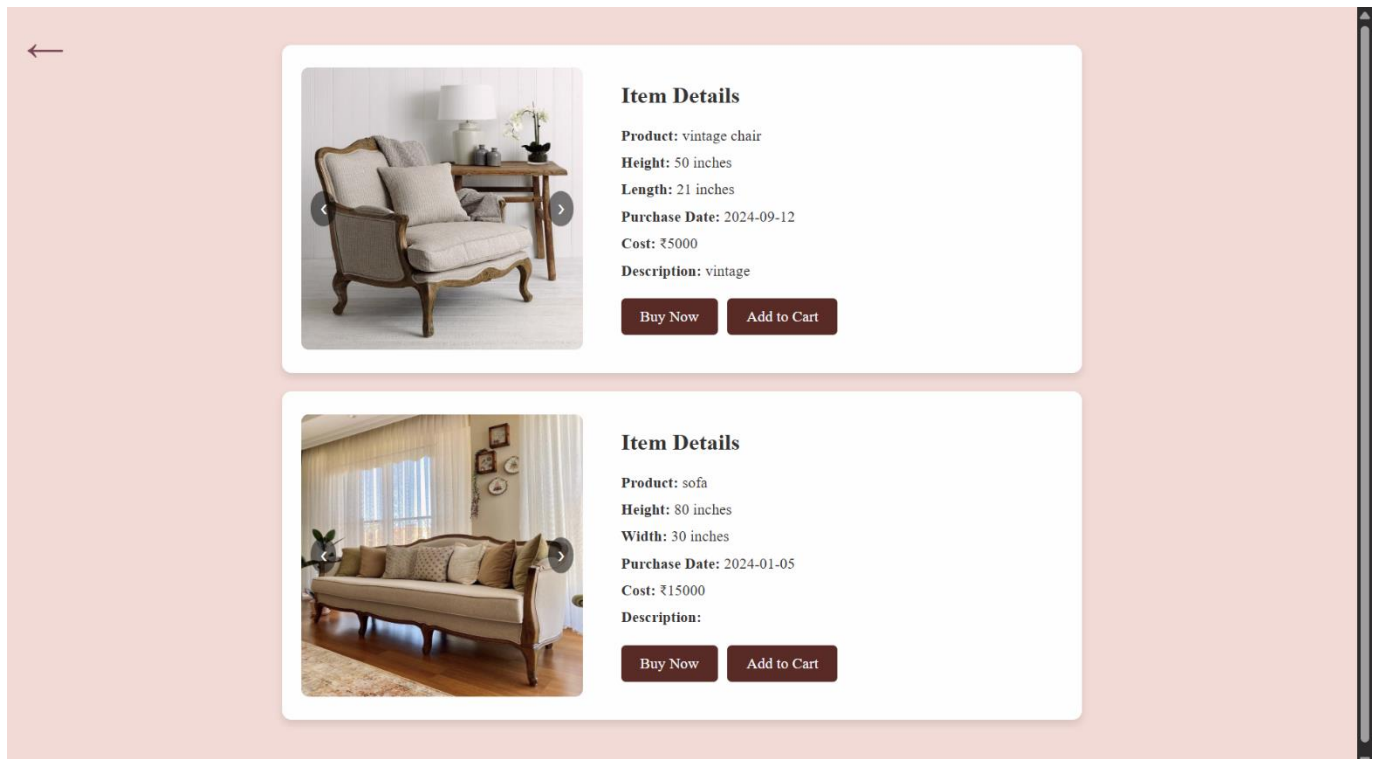
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2. Screen name : shop

Screen purpose : to view and purchase items

Screenshot :



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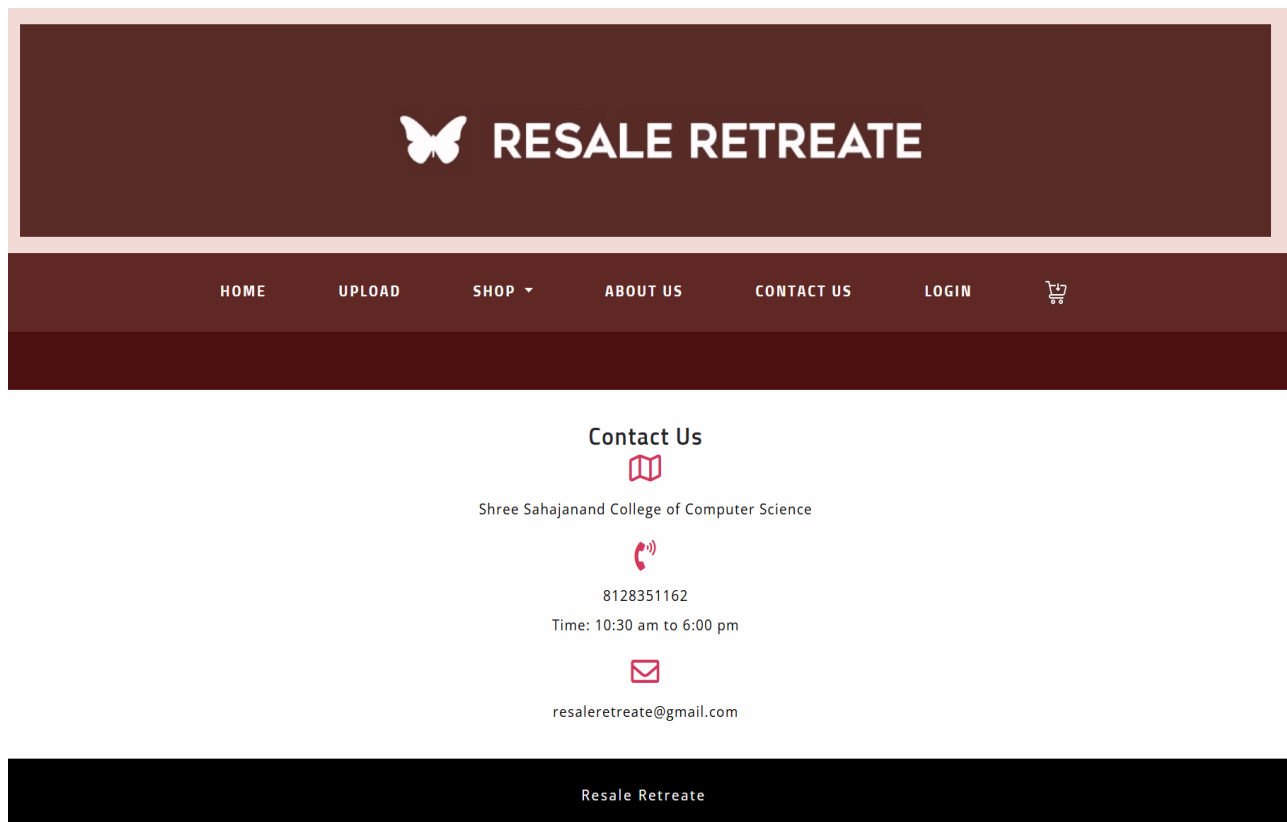
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3. **Screen name :** contact us

Screen purpose : customers can contact in case of query

Screen :



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4. **Screen name :** about us

Screen purpose : customers can get insight of website

Screen :



About Us

Welcome to Resale Retreat

your trusted online marketplace for buying and selling quality secondhand goods.

We believe in giving pre-loved items a second chance
while helping consumers find great deals on everything from
clothing and accessories to home décor, electronics, and more.

At Resale Retreat, we make it easy for sellers to declutter and earn money
while providing shoppers with a sustainable and affordable way to shop.
Our platform is designed to create a seamless buying and selling experience
ensuring that every transaction is secure, simple, and rewarding.



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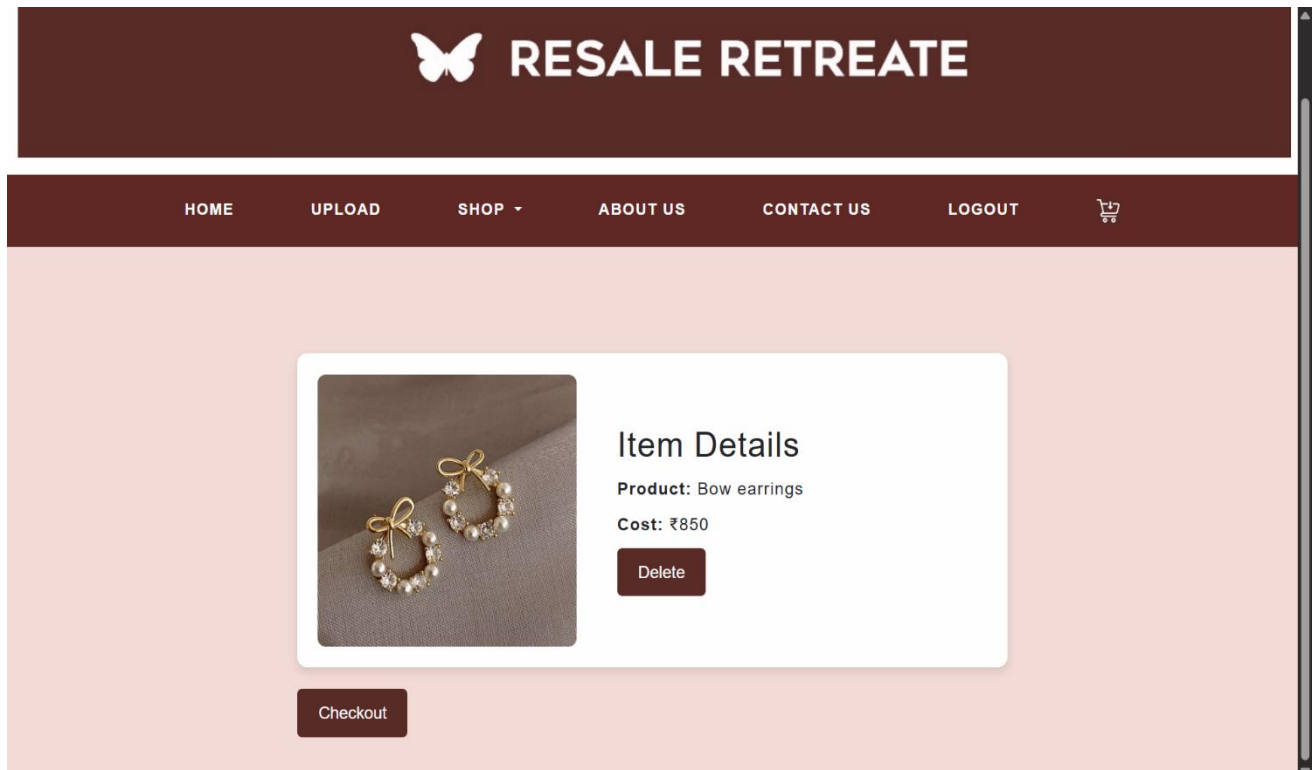
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5. **Screen name :** cart

Screen purpose : added to chart items and checkout.

Screen :



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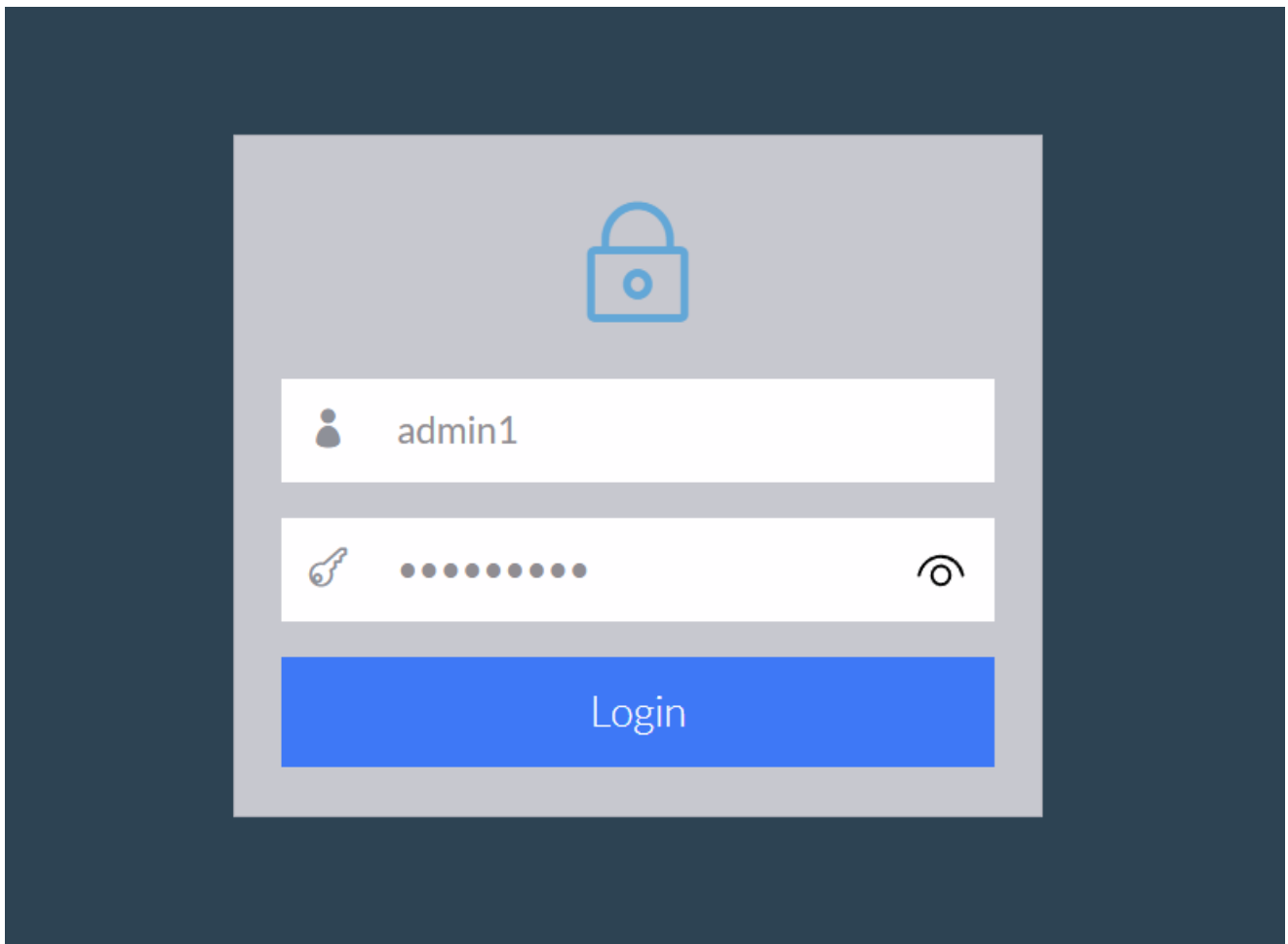
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*Admin panel

6. **Screen name :** login

Screen purpose : admin login panel

Screen :



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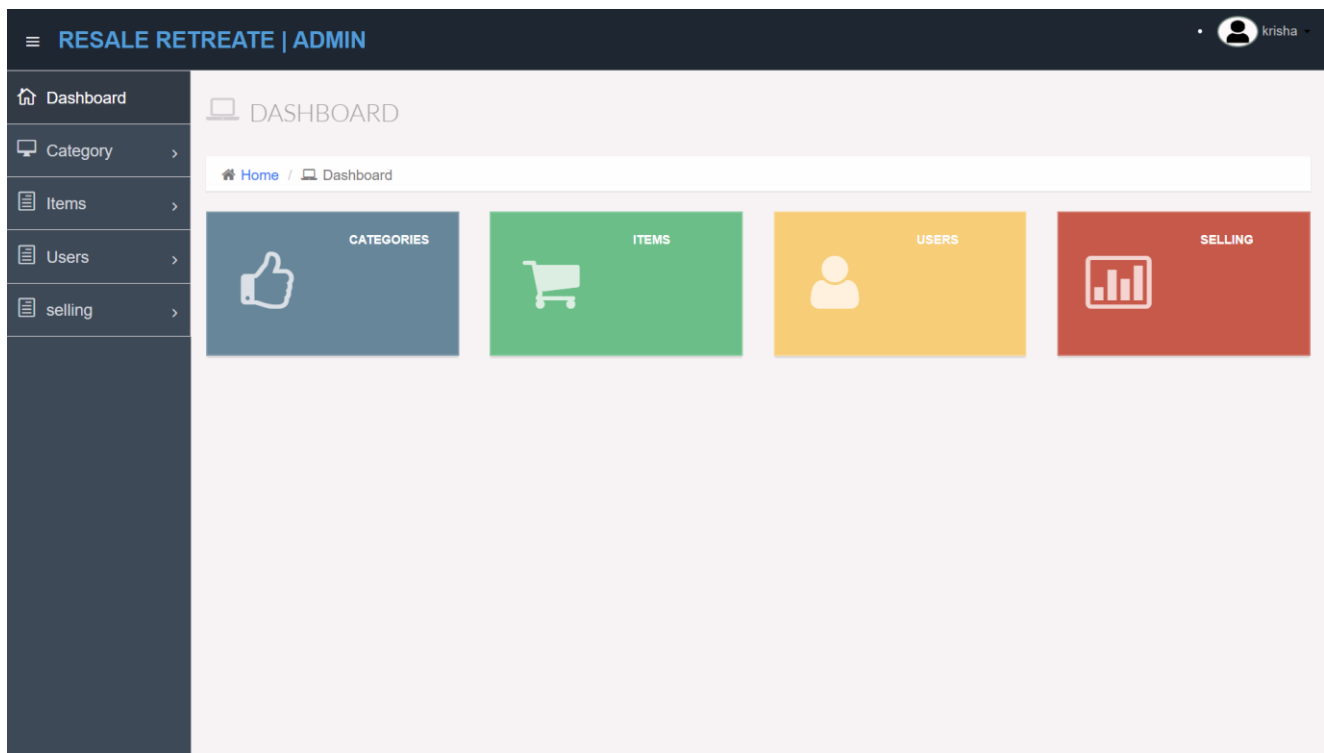
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7. **Screen name :** dashboard

Screen purpose : main home page

Screen :



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8. **Screen name :** category


Screen purpose : add and manage dynamic categories


Screen :


≡


RESALE RETREAT | ADMIN


 krisha


 Dashboard

 Category >

 Items >

 Users >

 selling >

 CATEGORY


Add category


category name


Submit


≡


RESALE RETREAT | ADMIN


 krisha


 Dashboard

 Category >

 Items >

 Users >

 selling >

 MANAGE CATEGORIES

Manage categories

ID	Name	Action
1	Furniture	<div>EditDelete</div>
2	Clothing	<div>EditDelete</div>
3	Accessories	<div>EditDelete</div>
4	Automobiles	<div>EditDelete</div>
5	Gadgets	<div>EditDelete</div>
6	others	<div>EditDelete</div>

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9. Screen name : items

Screen purpose : add and manage items upload

Screen :

RESALE RETREAT | ADMIN

Dashboard

Category

Items

Users

selling

ADD ITEM

Add item

Category:

Select a category

Product Name

Product Height (in inches)

inches

Product Width (in inches)

inches

Product Length (in inches)

inches

Purchase Date

dd-mm-yyyy

Expiry Date (Optional)

dd-mm-yyyy

Cost

in rupees

Description

RESALE RETREAT | ADMIN

Dashboard

Category

Items

Users

selling

MANAGE ITEMS

Home / Manage Items / Manage Items

Manage Items

ID	Product ID	Name	Product Type	Cost	Owner Name	Address	Contact	Action
1	3	Bow earrings	Accessories	850	dhart	palitana	6577889034	<div>EditDelete</div>
2	3	basket purse	Accessories	2100	mahek	anand	8128351162	<div>EditDelete</div>
3	3	earring set	Accessories	1650	bhavna	home	6577889034	<div>EditDelete</div>
4	1	vintgage chair	Furniture	5000	netri	mahila college	8128351162	<div>EditDelete</div>
5	1	side table	Furniture	8000	netri	kankavati	8128351162	<div>EditDelete</div>
6	1	sofa	Furniture	25000	parekh	meghani	9988776655	<div>EditDelete</div>
7	3	purse	Accessories	500	bhavna	1025/b	8460486755	<div>EditDelete</div>

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10. Screen name : users


Screen purpose : manage and delete users


Screen :


≡


RESALE RETREAT | ADMIN


 krisha


 Dashboard

 Category >

 Items >

 Users >

 selling >

 MANAGE USERS

Manage Users

ID	Username	Action
1	krisha_2004	<div>Remove User</div>
2	manya12	<div>Remove User</div>

Resale Retreat

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11.Screen name : selling

Screen purpose : view all the sales.

Screen :

RESALE RETREATE | ADMIN

krisha

Dashboard

Category >

Items >

Users >

selling >

ALL SALES

Home / All Sales

All Sales

ID	Product Name	Price	First Name	Last Name	Email	Contact	Address
1	dress	2300	krisha	rajpura	krisharajpura@gmail.com	8460486755	home
2	vintage chair	10000	krisha	rajpura	krisharajpura@gmail.com	8460486755	kankavati
3	sofa	25000	janvi	mehta	jm@gmail.com	987654323	surat
4	purse	1700	hirva	jain	hirva@gmail.com	9823456767	rajkot

Resale Retreatre

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Testing & Implementation

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Testing Approach used :

the testing approach for the gym website can be categorized into Black Box, White Box, and Gray Box Testing based on how the tests are performed and the level of knowledge about the internal code structure.

1. Black Box Testing (User-Focused Functional Testing) :

This focuses on testing the website without knowing the internal code or structure. It ensures that the system works as expected from a user's perspective.

Examples in Website:

- Functional Testing: Checking user registration, login, and profile management.
- UI/UX Testing: Verifying navigation, buttons, forms, and hover effects.
- Database Testing (from UI): Ensuring data is saved and retrieved correctly when users register or submit feedback.
- Security Testing: Attempting invalid logins, SQL injections, or XSS attacks without knowledge of backend security implementation.

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2. White Box Testing (Code-Focused Testing) :

This involves testing the internal logic, structure, and code implementation to ensure efficiency and security.

Examples in Website:

- Code Review & Static Testing: Checking PHP, MySQL, and JavaScript code for errors or vulnerabilities.
- Unit Testing: Testing individual functions, such as login authentication and form validation.
 - Security Code Review: Ensuring password hashing, input validation, and SQL query security (e.g., using prepared statements).
 - Performance Optimization: Identifying slow SQL queries or inefficient loops in PHP.

3. Gray Box Testing (Database & Integration Testing) :

This combines Black Box and White Box approaches, focusing on how different components interact while having partial knowledge of the internal structure.

Examples in Website:

- Integration Testing: Checking how the frontend (HTML, CSS, JavaScript) interacts with the backend (PHP, MySQL).
 - Database Testing: Executing SQL queries directly to verify correct data storage and retrieval.
 - Session Management Testing: Ensuring users stay logged in correctly and sessions expire securely.
 - Security Testing with Partial Knowledge: Testing access control by logging in as a member and trying to access admin pages.

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1. Home page :

Test case ID	Test scenario	Steps	Expected results	Results
HP-1	Verify homepage loads succesfully	Open homepage	Homepage should display efficiently	Pass
HP-2	Verify navigation bar links work.	Click each links	The links should navigate respective pages properly	Pass
HP-3	Verify the slider works properly	Load the homepage	The images should load and scroll properly	Pass
HP-4	Verify Header/footer pages	Check header and footer section	Header and footer should be consistent throughout	Pass

2. Login/ Registration :

Test case ID	Test scenario	Steps	Expected results	Results
LR-1	Verify page loads	Load the login and register page	Pages should load properly	Pass
LR-2	Successful sign in/up	Enter correct username and passkey	Should sign in/up successfully	Pass
LR-3	Validation controls	Enter incorrect data	Rejects invalid data	Pass

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3. Upload items

Test case ID	Test scenario	Steps	Expected results	Results
U-1	Verify upload page loads	Open upload link	Upload page works neatly	Pass
U-2	Verify validation control works	Enter incorrect data	Proper alerts shown when needed	Pass
U-3	Verify images upload successfully	Add multiple images	Images submitted in database successfully	Pass
U-4	Whole data is submitted	Enter realistic data	Data is submitted successfully into the database	Pass

4. contact us

Test case ID	Test scenario	Steps	Expected results	Results
C-1	Contact us page loads	Open contact us link	Page should be loaded successfully	Pass
C-2	Contact information loads successfully	Verify the contact us details	Details should be accurate	Pass

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5. Shop items

Test case ID	Test scenario	Steps	Expected results	Results
S-1	Shopping page loads	Open shopping page	Page loads successfully	
S-2	All items from database displayed	Open all submenu pages	Each page should have items according to the category	Pass
S-3	Item details displayed	Verify item details on site with database	Proper and accurate details displayed	Pass
S-4	All images displayed	Zoom and view next prev images	All images loads	Pass
S-5	Add to chart/buy now button works	Add an item to chart or choose buy now opt	Items should either add to chart or checknout	Pass
S-6	Verify Submenu categories	Open submenu	All the category should display and navigate respective pages	Pass

6. Cart

Test case ID	Test scenario	Steps	Expected results	Results
c-1	Verify the items are added	Add few items to cart	Should add the items to chart successfully	Pass
c-2	Verify if payment and checkout done successfully	checkout	Should perform checkout and payment successfully	pass

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➤ implementation approaches

The website can be implemented using a structured approach to ensure functionality, scalability, and user experience.

Here are key implementation approaches:

1. Frontend Implementation (User Interface & Design)

- HTML & CSS: Structure the pages with HTML and apply styling using style.css with a yellow-orange theme, modern layout, hover effects, and customized background images.
- JavaScript: Enhance interactivity, such as form validation, animations, and dynamic content updates.
- Responsive Design: Use CSS Flexbox/Grid to make the website mobile-friendly.

2. Backend Implementation (Logic & Database)

- PHP (Server-side scripting):
 - Handle form submissions (login/register, upload).
 - Perform Create, Read, Update, Delete operations for customers , items and admins.
 - Implement separate database connection files for modularity.
- MySQL (Database Management): Store customer , item , Admin data.
- Use primary keys and indexing for optimized queries.
- Ensure data integrity with constraints (no-null values).

3. Authentication & Access Control

- Admin Login System:
 - Secure authentication for multiple admins with equal access.
- item management:
 - Items should be uploaded and displayed to and from database dynamically.
- purchase and sell of items efficiently

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4. Dynamic Content Loading

- Shopping Page:

Load all the items from the database according to the category.

5. Admin Panel (Dashboard)

- Manage Members & customers:
View, insert, update, and delete records
- Implement a structured dashboard for easy navigation.

6. Navigation & UI Enhancements

- Navigation Bar:
Include a bold design with vivid css and styles with resale retreat logo.
- Ensure smooth navigation between pages.

7. Upload Page Design

- Pricing Plan Layout:
Implement a modern landscape container with interactive hover effects.

8. Security Measures

- Input Validation:
Prevent SQL Injection & Cross-Site Scripting (XSS) with prepared statements.
- Database Security:
Apply proper indexing and constraints for data integrity.

9. Deployment

- Hosting & Domain:
Deploy the website using XAMPP (local testing) and then migrate to a live server.
- Database Backup & Maintenance:
Regular backups and optimization for smooth performance

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Conclusion

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➤ overall summary

Resale Retreat is poised to revolutionize the second-hand marketplace by creating a platform that is not only user-friendly but also promotes sustainability. With opportunities for growth such as expanding product categories, integrating AI and machine learning, and developing a mobile app, Resale Retreat can enhance user experience and foster a sense of community.

By focusing on sustainability initiatives and efficient delivery services, Resale Retreat can contribute to reducing waste and promoting a circular economy. Social features and gamification elements can further engage users, making the buying and selling process more enjoyable.

In summary, Resale Retreat has the potential to become a leading player in the second-hand market, driving growth and fostering a sustainable, connected community.

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➤ Limitations :

- **Trust and Safety:** Ensuring trust and safety among users can be challenging. Concerns about the authenticity of products, fraudulent activities, and disputes between buyers and sellers need to be addressed.
- **Quality Control:** Maintaining the quality of second-hand products can be difficult. Users might receive items that do not match the descriptions, leading to dissatisfaction and returns.
- **Market Competition:** The C2C marketplace is highly competitive, with many established players. Differentiating Resale Retreat and attracting a loyal user base may require significant marketing efforts and unique value propositions.
- **Scalability:** As the platform grows, scaling the infrastructure to handle increased traffic, transactions, and user data can be complex and costly.
- **Logistics and Delivery:** Ensuring efficient and reliable logistics for the delivery of second-hand products can be challenging. Issues with shipping costs, delivery times, and handling returns must be managed effectively.
- **Payment Security:** Ensuring secure and seamless payment processing is critical. Concerns about payment fraud and data breaches need to be addressed to maintain user trust.
- **Regulatory Compliance:** Navigating the legal and regulatory requirements for operating a C2C platform in different regions can be complex. This includes issues related to taxation, consumer protection, and data privacy.

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➤ Future scope for Resale Retreat:

- ❑ **Expansion of Product Categories:** Expand the range of product categories to include more niche markets, such as vintage items, collectibles, and handmade crafts, to attract a wider audience and increase user engagement.
- ❑ **Integration of AI and Machine Learning:** Enhance the user experience by providing personalized recommendations, improving search functionality, and detecting fraudulent activities using AI and machine learning algorithms.
- ❑ **Sustainability Initiatives:** Emphasize the environmental benefits of buying and selling second-hand products. Introduce features that highlight the positive impact on reducing waste and promoting sustainability.
- ❑ **Mobile App Development:** Develop a user-friendly mobile app to increase user retention and engagement by making it easier for users to access the platform on the go.
- ❑ **Social Features:** Add social features such as user profiles, reviews, and ratings to build a sense of community and trust among users, encouraging more transactions and repeat customers.
- ❑ **Partnerships and Collaborations:** Collaborate with other businesses, influencers, and organizations to promote the platform and reach a larger audience, increasing brand visibility.
- ❑ **Enhanced Payment and Delivery Options:** Offer multiple payment options and efficient delivery services to improve the overall user experience. Explore partnerships with logistics companies to streamline the delivery process.

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