Group : 21

Software Engineering

WebCraft

Group members

Saloni Shah	202312078	Devang Pathak	202312092
Neel Bardoliya	202312013	Harsh Patel	202312076

Index

SR NO.	Chapter Name	Page No.
1	Introduction	4
	1.1 Purpose	4
	1.2 Introduction to WebCraft	5
	1.2.1 Product Description	5
	1.2.2 Product Features	5
	1.3 Intended Audience	5
	1.4 Scope of system	6
	1.5 Stakeholders	6
2	Requirements	7
	2.1 Functional Requirements	7
	2.2 Non – Functional Requirements	9
	2.3 User Requirements	11
3.	System Analysis and Design	17
	3.1 Entity Relationship Diagram	17
	3.2 Data Flow Diagram	18
	3.3 Unified Modelling Language	21
	3.3.1 Use Case Diagram	21
	3.3.1 Sequence Diagram	23
	3.3.2 Activity Diagram	24

	3.3.3 Class Diagram	26
	3.4 User Interface	40
4.	Assumptions	41
5.	Summary	42

CHAPTER : 1

Introduction

1.1. Purpose Of the Document

This document aims to offer an in-depth overview of the WebCraft. It provides a comprehensive record of the project's objectives, requirements, design, implementation, and other essential details.

WebCraft to develop a secure, user-friendly digital business website management platform that allows users to create, personalize, and manage their digital business cards, including subscription management, product showcases, and customer interactions. The platform will serve as a tool for professionals and businesses to enhance their online presence and networking capabilities.

In summary, the project documentation serves as a reference and guide for stakeholders involved in the ongoing management, maintenance, and enhancement of the system. It outlines the system's architecture, functionality, and performance expectations, providing clarity on how it operates and what improvements may be needed. This documentation reflects our dedication to delivering a robust, efficient solution that continues to meet user needs and enhances operational effectiveness in the context of guesthouse operations.

1.2. Introduction to WebCraft

1.2.1. Product Perspective

- The digital business website management platform is a standalone system designed to fill the gap in online professional networking by providing a comprehensive solution for digital business website creation and management.
- It integrates features such as subscription management, customization options, and social media integration to provide a seamless user experience.

1.2.2. Product Features

- Secure login and user authentication
- Digital business website creation and personalization
- Subscription management based on user payments
- Real-time updates and customer support

1.3. Intended Audience

- The primary target audience of this system includes small-scale vendors and entrepreneurs who lack the resources to hire professional web developers but aspire to establish their online presence.
- These individuals typically have limited technical expertise and seek a user-friendly platform that enables them to create and manage their digital business cards effortlessly.
- By utilizing this system, they aim to shift their operations online, enhance their visibility, and expand their customer base.
- The system caters to their needs by offering intuitive tools for website creation, subscription management, and product showcasing, empowering them to grow their business and reach a wider audience in the digital realm.

1.4. Scope of the System

- WebCraft aims to bridge gaps in online networking by offering a user-friendly solution for creating and managing digital business cards.
- It's not just about exchanging contact details; it goes a step further by including features like subscription management, customization, and easy integration with social media.
- The main idea is to provide a secure and simple platform for professionals and businesses to showcase themselves, manage subscriptions, display products, and interact with customers.
- This platform is set to be a valuable tool, empowering users to boost their online presence and networking capabilities effortlessly.

1.5. Stakeholders

1. Users: These individuals or businesses are the primary users of WebCraft, relying on its features for enhancing their online presence and networking capabilities. Their feedback and satisfaction drive the platform's evolution and success.
2. Developers: The team responsible for designing, developing, and maintaining WebCraft, ensuring it meets user requirements, stays updated, and remains secure. Their expertise and dedication are crucial for the platform's functionality and reliability.
3. Project Managers: Tasked with overseeing the planning, execution, and delivery of WebCraft, project managers ensure alignment with stakeholder expectations, timely delivery, and adherence to quality standards. Their coordination and leadership are vital for project success.

CHAPTER : 2

Requirements

2.1 Functional Requirements

2.1.1 User Registration:

- The following areas must be filled out on the user registration form that the system will provide: user email, password, and company name.
- The system will verify that the email address supplied is unique and in the right format when it is submitted.
- Prior to finishing the registration procedure, users must accept the terms and conditions.

2.1.2 User Login:

- Users will be able to access the site by entering their password and registered email.
- The system will verify user credentials against database records that have been saved.
- The relevant error messages will appear if the credentials are invalid.

2.1.3 Dashboard:

- The information that follows must be visible on the dashboard: company name , frontend link, subscription start and end dates, active status, and the ability to modify website and profile information.
- To improve customers' knowledge and account management, it will also tell them how many days are left in their subscription.

2.1.4 Theme Selection:

- Users will be able to choose from a list of pre-made themes. The system must offer an easy-to-use interface for choosing themes.
- Any modifications made to the theme will automatically appear on the user's website.

2.1.5 Personal Details Management:

- Users will be able to change personal information such as the name of the business, the owner, the email address, the phone number, the address, the logo, and the data about the business (title, description, image, year of establishment, map, opening hours).
- Each of these personal information will have input forms provided by the system, enabling users to change them as necessary.

2.1.6 Colors Customization:

- Users will be able to choose the colours of the header, buttons, footer, and text on their website, among other aspects. Users can choose their favourite colours using the colour picker provided by the system.
- Any colour scheme modifications will be instantly applied to the website preview .

2.1.7 Products Management:

- Users will be able to add,modify, remove, and assign categories to items in addition to managing the products that are displayed on their website.
- The product data, including name, description, price, and photos, must be entered by users via interfaces provided by the system.

2.1.8 Brands Management:

- Users will be able to add, modify, and remove brands as well as manage brands connected to their business if they have.
- Users will be able to submit brand information, including name, description, and logo, into interface provided by the system.

2.1.9 Gallery Management:

- Users will be able to manage images in the gallery section of their website, including uploading new images, editing existing images.
- The system shall support various image formats and provide an interface for users to organize their gallery.

2.1.10 Testimonials Management:

- Users will be able to manage testimonials displayed on their website, including adding new testimonials, editing existing testimonials.
- The system shall provide input fields for users to enter testimonial details such as name, description, and picture.

2.1.11 Social Media Links Management:

- Users will be able to manage links to their social media profiles on their website, including adding new social media links, editing existing social media links.
- The system shall support popular social media platforms such as Facebook, YouTube, WhatsApp, etc.

2.1.12 Other Features Management:

- Users will be able to additional features for enhancing their website , including managing sliders, integrating QR codes, configuring WhatsApp messages, and customizing product messaging.
- The system shall provide interfaces or settings panels for users to configure these features according to their preferences.

2.2 Non - Functional Requirements

2.2.1 Performance:

- When a user interacts with the system, as when they register, log in, or access the dashboard, it should react quickly.
- It is important to optimise dashboard loading times to give users a flawless experience.
- To improve user productivity, website information should update and save with the least amount of response time possible.

2.2.2 Reliability:

- Users should be able to access and utilise the system without experiencing unplanned downtime.
- To avoid data loss, user data, including card details and registration information, should be frequently backed up and kept in a safe location.

2.2.3 Security:

- Strong user authentication procedures are necessary to stop unwanted access to user accounts.
- In order to safeguard data transfer between the user's browser and the server, the system had to have HTTPS encryption.

2.2.4 Scalability:

- An increasing number of user registrations, logins, and concurrent dashboard visits should be supported by the system.
- Infrastructure that is scalable should be in place to handle rising traffic and user data storage needs.

2.2.5 Usability:

- The user interface should be simple to use and straightforward, especially when it comes to controlling website content, changing personal information, and choosing themes.
- To assist users in navigating the dashboard capabilities, login procedure, and registration process, clear instructions and tooltips have to be supplied.

2.2.6 Compatibility:

- To guarantee accessibility for all users, the system should work with a variety of web browsers and devices.
- It is important to evaluate the system's compatibility with various platforms and screen sizes in order to confirm its functionality.

2.2.7 Maintainability:

- To make maintenance and modifications easier in the future, the system design should be modular and thoroughly documented.

- To make troubleshooting and debugging procedures easier, Codebase must stick to coding standards and best practices.

2.3 User Requirements

2.3.1 Admin

- As a site administrator, I want to be able to log in securely to the admin panel using credentials so that the authentication process is robust.
- As an administrator, I want to view digital business cards created by users so that I can view them on the portal.
- As site administrator, I want to record the start date during the account creation process so that I can track when each user joined platform.
- As a site administrator, I want the payment amount submitted by a user during the subscription process to dynamically determine the subscription period, so that users receive the appropriate duration of access based on their payment.
- As an administrator, I want to calculate the end date for a user's website tenure by adding the determined subscription period to the start date, ensuring accurate tracking and management of active websites.
- As an administrator, I want the active status of a user's website to automatically change when the end date is reached, so that websites are appropriately marked as inactive when the subscription tenure is over.
- As an administrator, I want the ability to efficiently view and manage user accounts registered on the platform so that I can easily perform tasks like viewing and deleting accounts.

- As an administrator, I want to audit the payment status of users so that I can identify when a subscription is over, and if necessary, remove the website associated with the user to ensure compliance with subscription terms.
- As an administrator, I want to be able to delete user accounts if necessary, so that in any case of discrepancies I can delete the user.

2.3.2 User

- As a potential user, I want to register with my details so that I can swiftly create a new account.
- As a registered user, I want to log in using my credentials so that I can quickly access my account.
- As a user, I want to see how many days are remaining until the end of my subscription on the dashboard, so that I can plan and take necessary actions before the subscription expires.
- As a user, I want to see a concise display on the dashboard containing the company name, start date, end date, and status (active or inactive) of my subscription, so that I can easily grasp the key details of my subscription.
- As a user, I want to be able to edit my company details, so that I can keep my digital website information accurate and up-to-date as my business evolves.
- As a user, I want to personalize my digital card's theme colours, so that I can align its appearance with my brand identity or preferences.

- As a user, I want to upload products to my digital website and manage them efficiently with category management, so that I can effectively showcase my range of offerings and provide a well-organized browsing experience for my customers.
- As a user, I want to upload images to the gallery from the admin, so that I can showcase relevant visual content on my digital card, enhancing its appeal for visitors.
- As a user, I want to handle testimonials, so that I can showcase feedback on my digital card, building trust with visitors.
- As a user, I want to manage my social media links, so that I can keep my customers up-to-date with the latest information.
- As a user, I want to see the actual changes reflected on my website in real-time after making updates from the admin, so that I can ensure that any modifications or updates made to my digital website are immediately visible to visitors, providing them with the most accurate and up-to-date information about my business or offerings.
- As a user, I want to access customer support from the admin if I encounter any issues, so that I can quickly resolve any technical difficulties or queries that may arise while managing my digital card, ensuring smooth operation and optimal user experience for myself and my customers.
-

2.3.3 Use Cases

2.3.1 Register

Actor : User

- Users provide personal details for registration.
- The system validates the information.

- A new account is created with unique credentials.
- Users receive confirmation of successful registration.
- They can now proceed to log in.

2.3.2 Login

Actor : User or Admin

- Registered users or Admin enter their credentials.
- The system verifies the login information.
- Upon successful authentication, users or admin gain access to their accounts.
- Users or Admin are redirected to their personalized dashboard.
- Secure login ensures account protection.

2.3.3 Manage Profile

Actor : User

- Users navigate to the profile section.
- They can edit and update personal information.
- Changes made are saved and reflected in their digital website.
- Ensures that the digital website remains accurate and up-to-date.
- Users maintain control over their professional identity.

2.3.4 Customize Website

Actor : User

- Users access customization options for their digital website.
- They can add or modify content based on their preferences.
- Changes made are instantly reflected in the digital card.
- Enhances the card's representation of professional information.
- Allows users to tailor their digital presence.

2.3.5 Change Appearance

Actor : User

- Users choose the theme colors for their digital website.
- The system applies the selected colors to the website's appearance.
- Users can experiment with different color combinations.
- Ensures a visually cohesive representation.
- Aligns the digital website with the user's brand identity or personal style.

2.3.6 Manage Users

Actor : Admin

- Admins can efficiently view a list of registered users.
- Deleting user accounts is possible if necessary.
- Ensures platform integrity and compliance.
- Efficient user management for administrative tasks.

2.3.7 View Active Status

Actor : Admin

- Admins check the status of users' websites.
- Active and inactive statuses are easily distinguishable.
- Ensures accurate tracking of users' subscription statuses.
- Facilitates efficient management of active websites.
- Helps in maintaining an organized platform.

2.3.8 Manage Subscription

Actor : Admin

- Admins oversee the subscription process.
- Payment amount submitted by users determines subscription duration.
- Ensures users receive appropriate access based on payments.
- Dynamic subscription management for fairness.
- Admins ensure compliance with subscription terms.

2.3.9 View Tenure

Actor : Admin

- Admins calculate the end date of a user's website tenure.
- Subscription period is added to the start date for accuracy.
- Facilitates precise tracking and management.
- Admins have an overview of when subscriptions expire.
- Contributes to the systematic handling of active websites.

2.3.10 Delete Websites

Actor : Admin

- Admins have the authority to delete websites.
- This action is taken when a subscription is over.
- Ensures compliance with subscription terms.

- Contributes to platform cleanliness and efficiency.
- Admins maintain control over the platform's content.

2.3.11 Logout

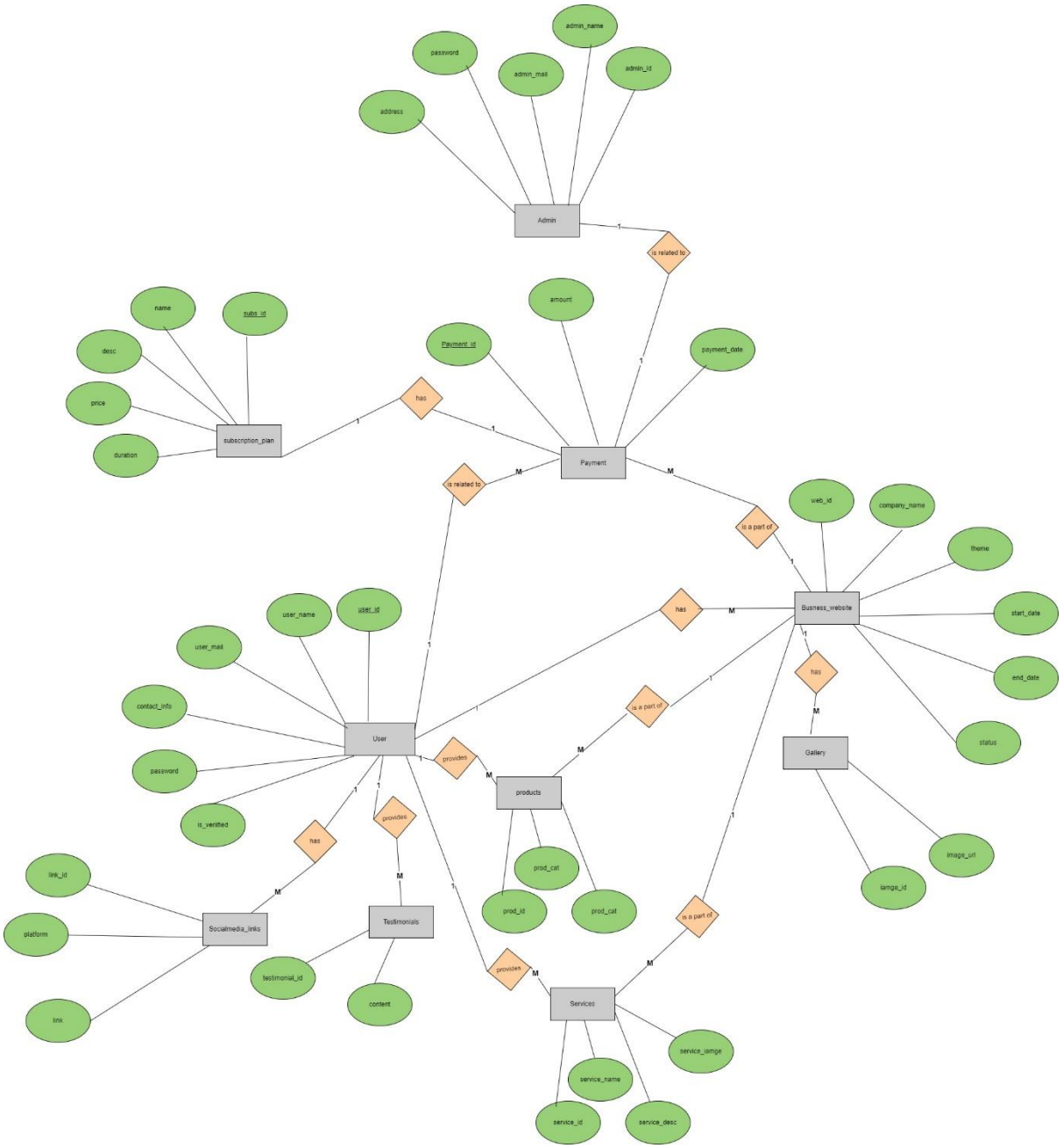
Actor : User or Admin

- Admin or Users securely log out of the panel.
- Session ends to maintain security.
- Logout option ensures protection against unauthorized access.
- Admins can confidently conclude their administrative tasks.
- Security measures are upheld throughout the platform.

CHAPTER : 3

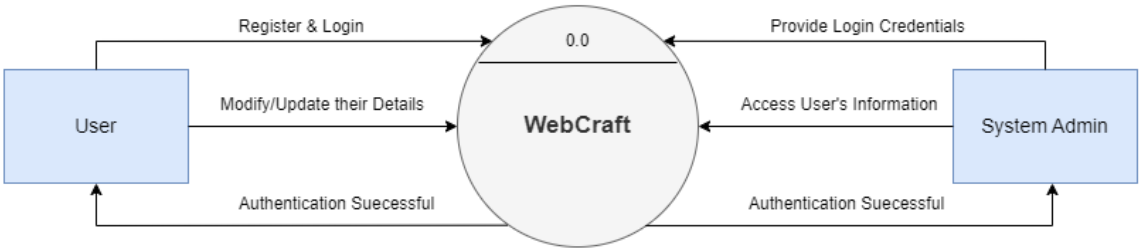
System Analysis and Design

3.1 Entity Relationship Diagram

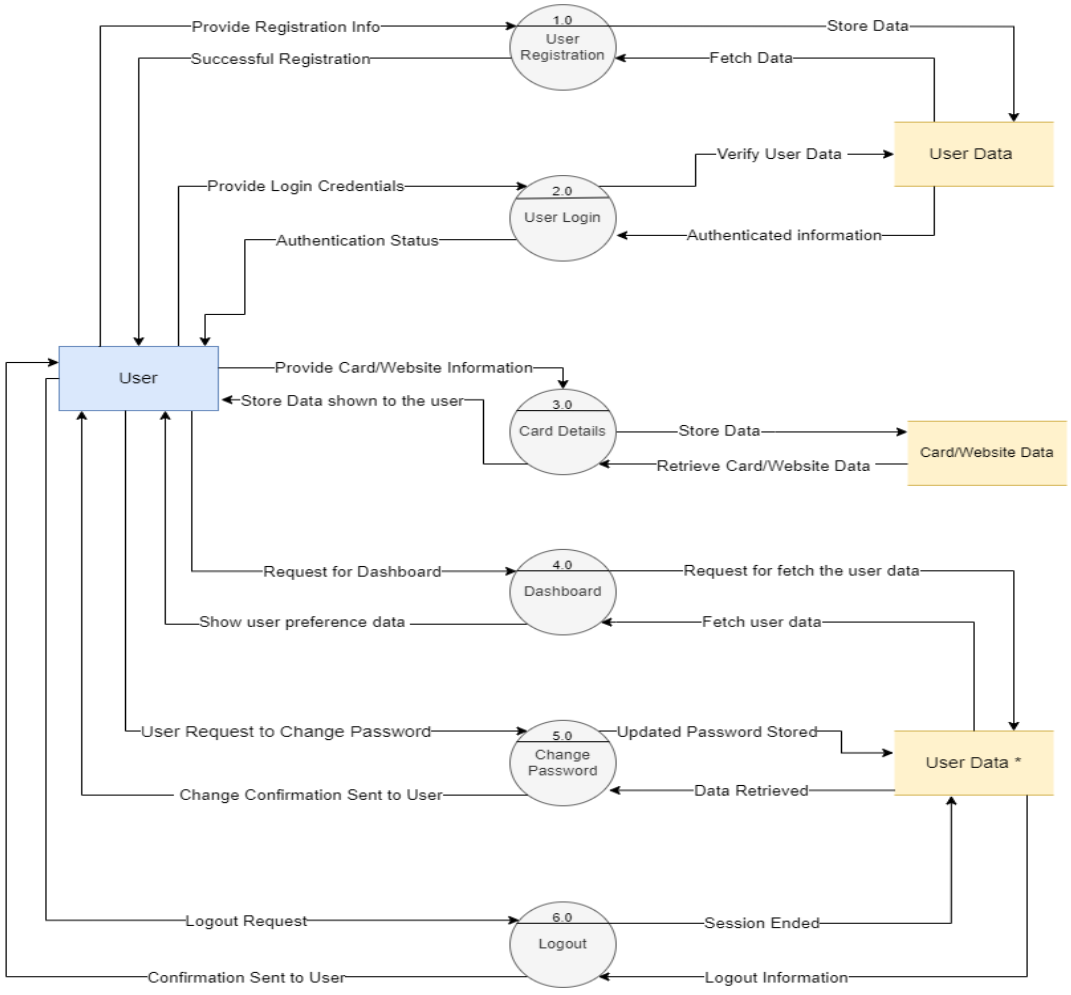


3.2 Data Flow Diagram

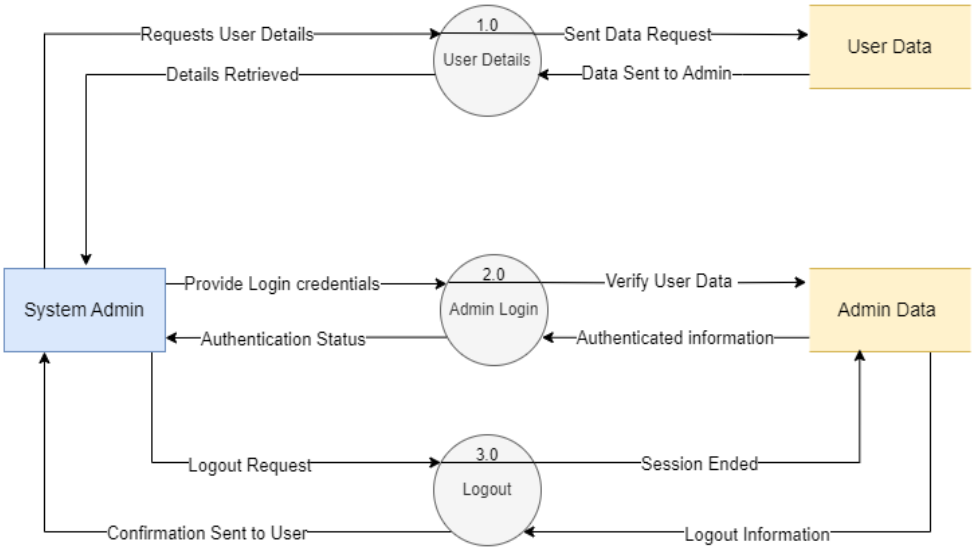
- **Level 0**



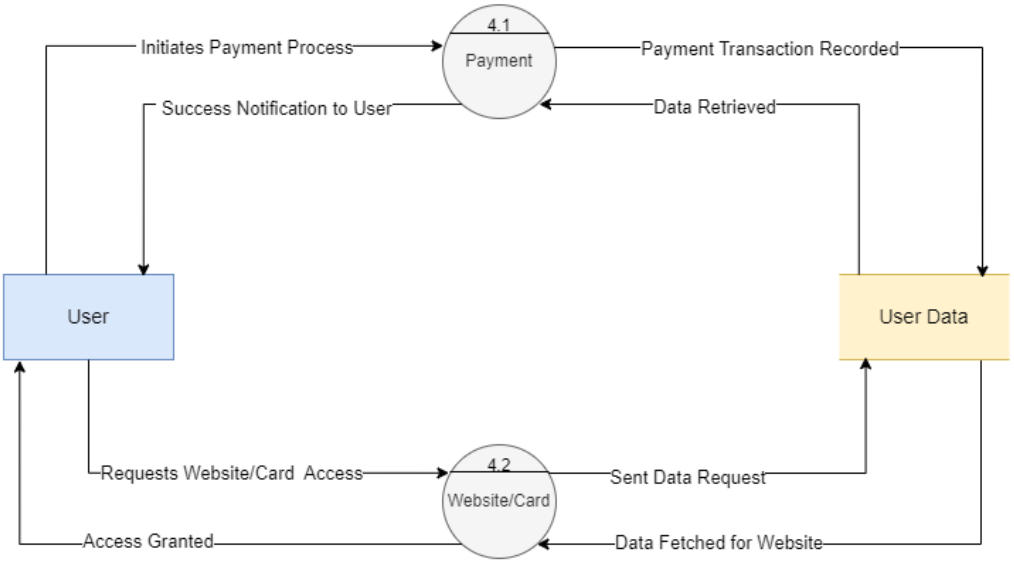
- **Level 1**

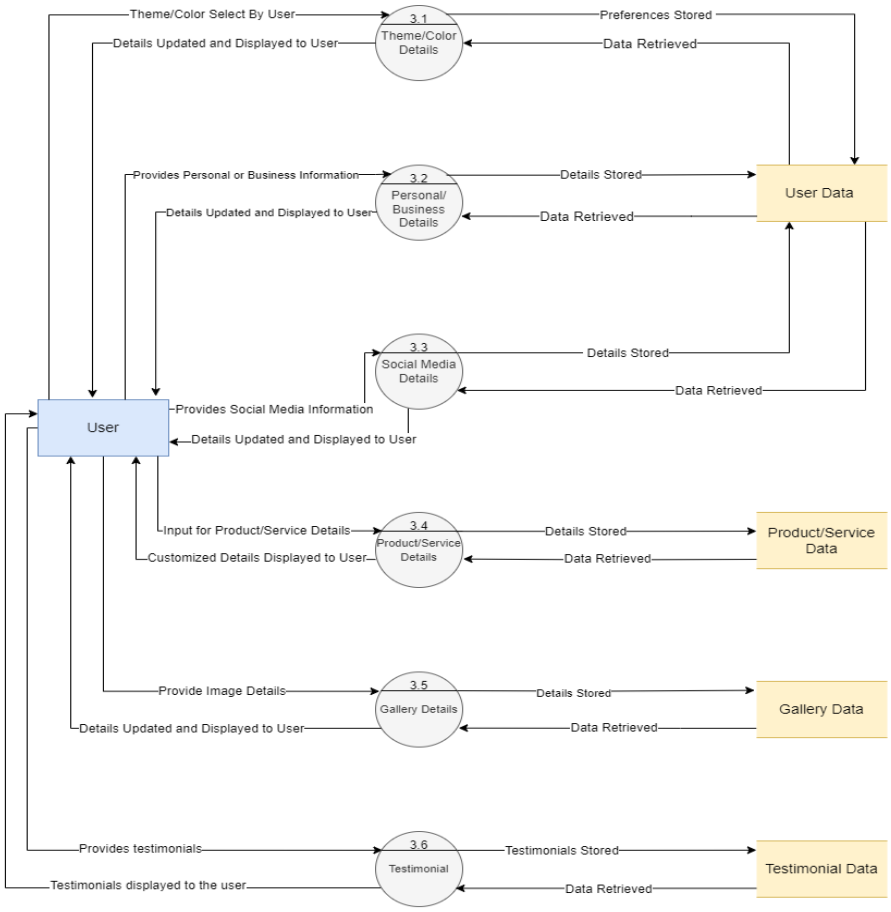


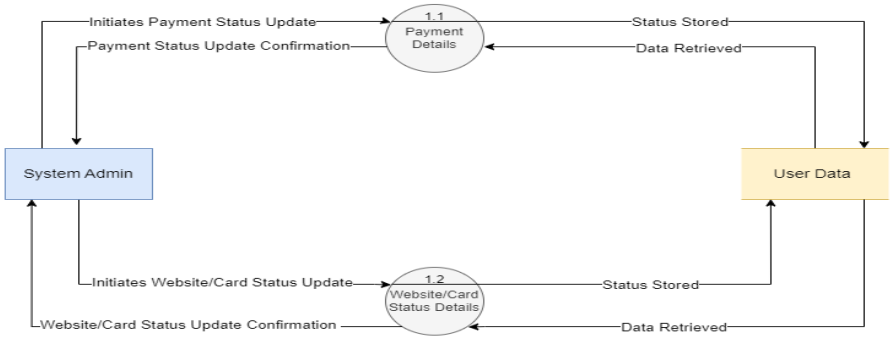
- **Admin**



- **Level 2**

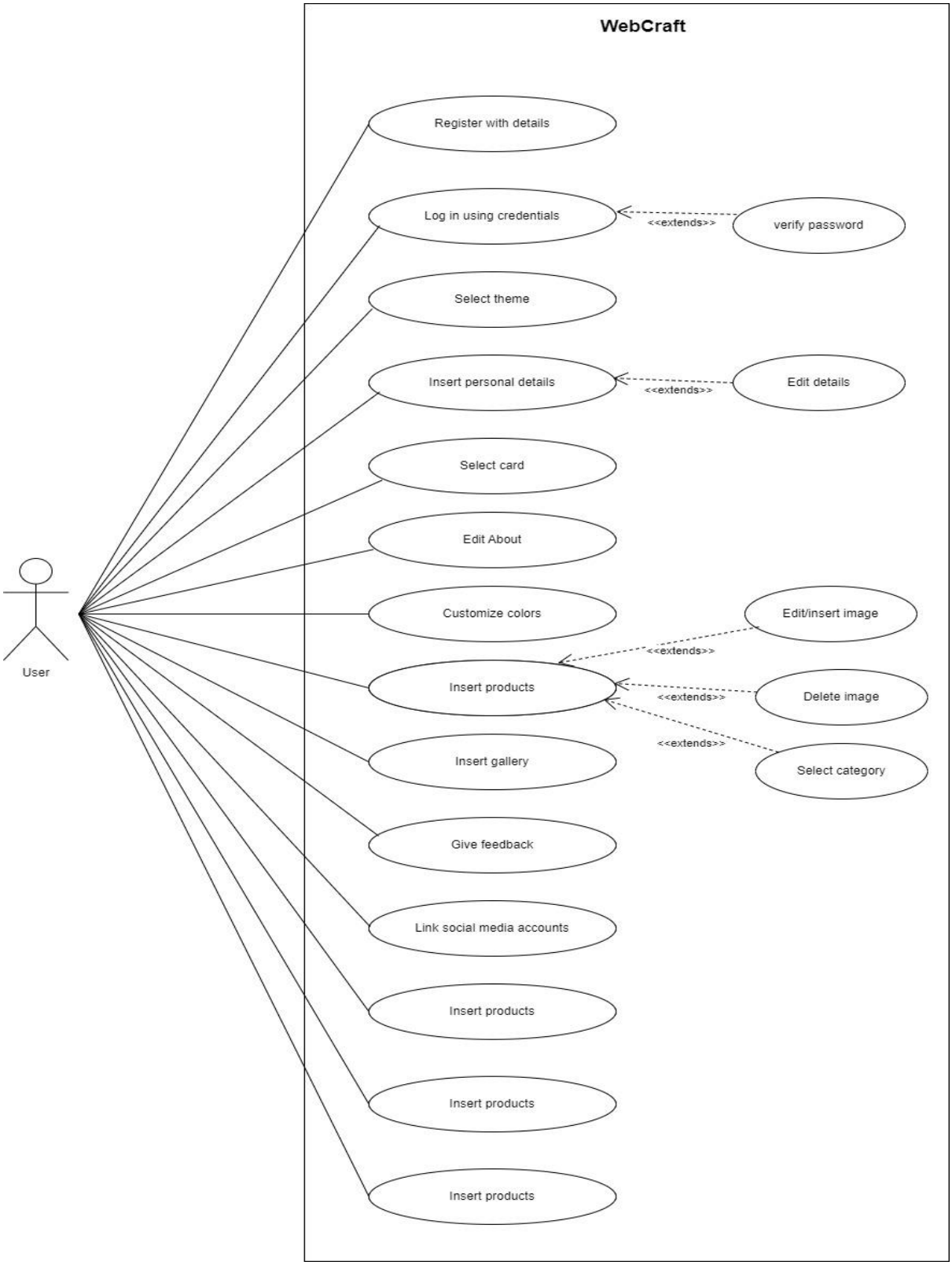



Theme/Color Select By User
Details Updated and Displayed to User
3.1
Theme/Color Details
Preferences Stored
Data Retrieved
Provides Personal or Business Information
Details Updated and Displayed to User
3.2
Personal/ Business Details
Details Stored
Data Retrieved
User Data
3.3
Social Media Details
Details Stored
Data Retrieved
User
Provides Social Media Information
Details Updated and Displayed to User
Input for Product/Service Details
Customized Details Displayed to User
3.4
Product/Service Details
Details Stored
Data Retrieved
Product/Service Data
Provide Image Details
Details Updated and Displayed to User
3.5
Gallery Details
Details Stored
Data Retrieved
Gallery Data
Provides testimonials
Testimonials displayed to the user
3.6
Testimonial
Testimonials Stored
Data Retrieved
Testimonial Data

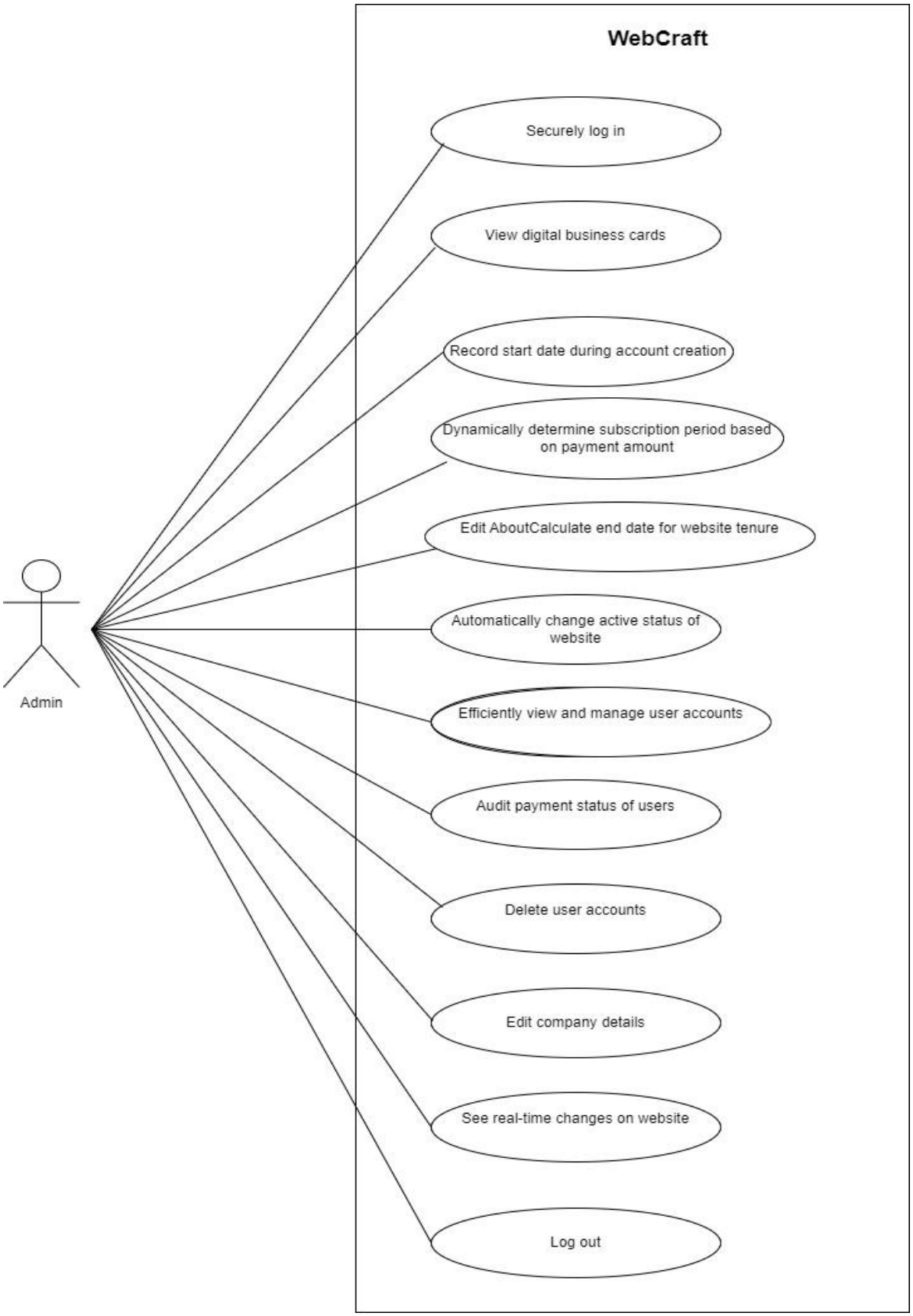

Initiates Payment Status Update
Payment Status Update Confirmation
1.1
Payment Details
Status Stored
Data Retrieved
System Admin
User Data
Initiates Website/Card Status Update
Website/Card Status Update Confirmation
1.2
Website/Card Status Details
Status Stored
Data Retrieved

3.3 Unified Modelling Language

3.3.1 Use Case Diagram

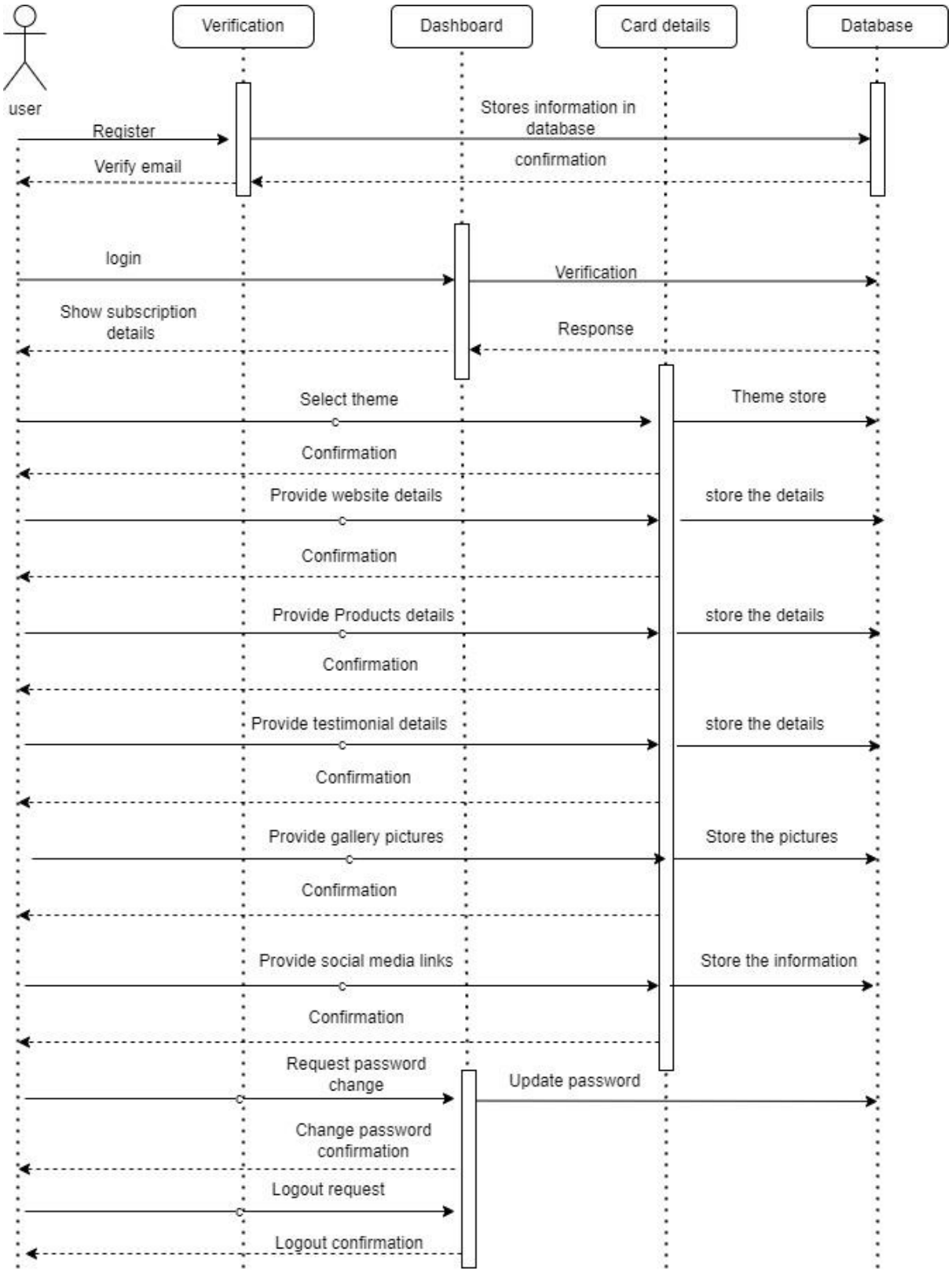


Admin

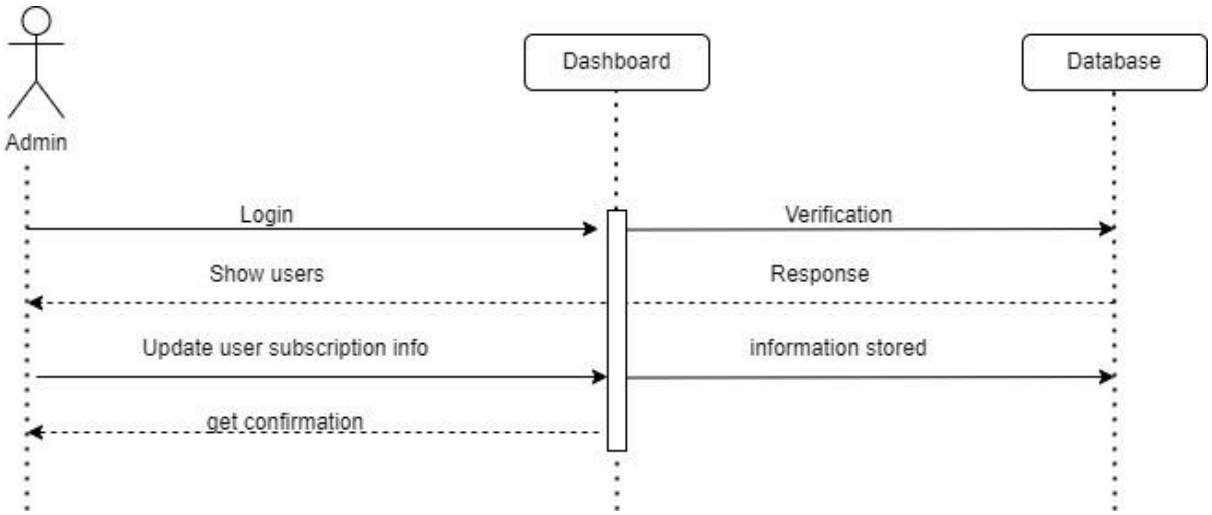

WebCraft
Securely log in
View digital business cards
Record start date during account creation
Dynamically determine subscription period based on payment amount
Edit AboutCalculate end date for website tenure
Automatically change active status of website
Efficiently view and manage user accounts
Audit payment status of users
Delete user accounts
Edit company details
See real-time changes on website
Log out
Admin

3.3.2 Sequence Diagram

User

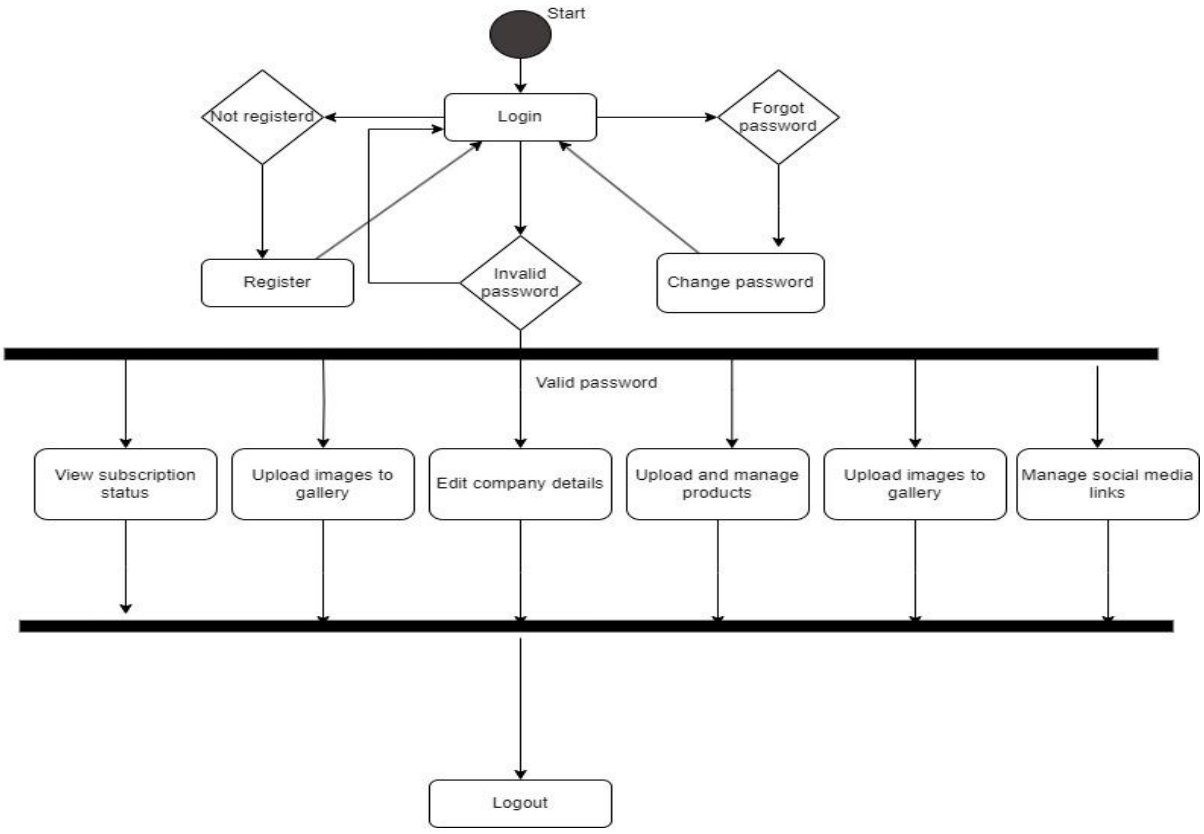


Admin

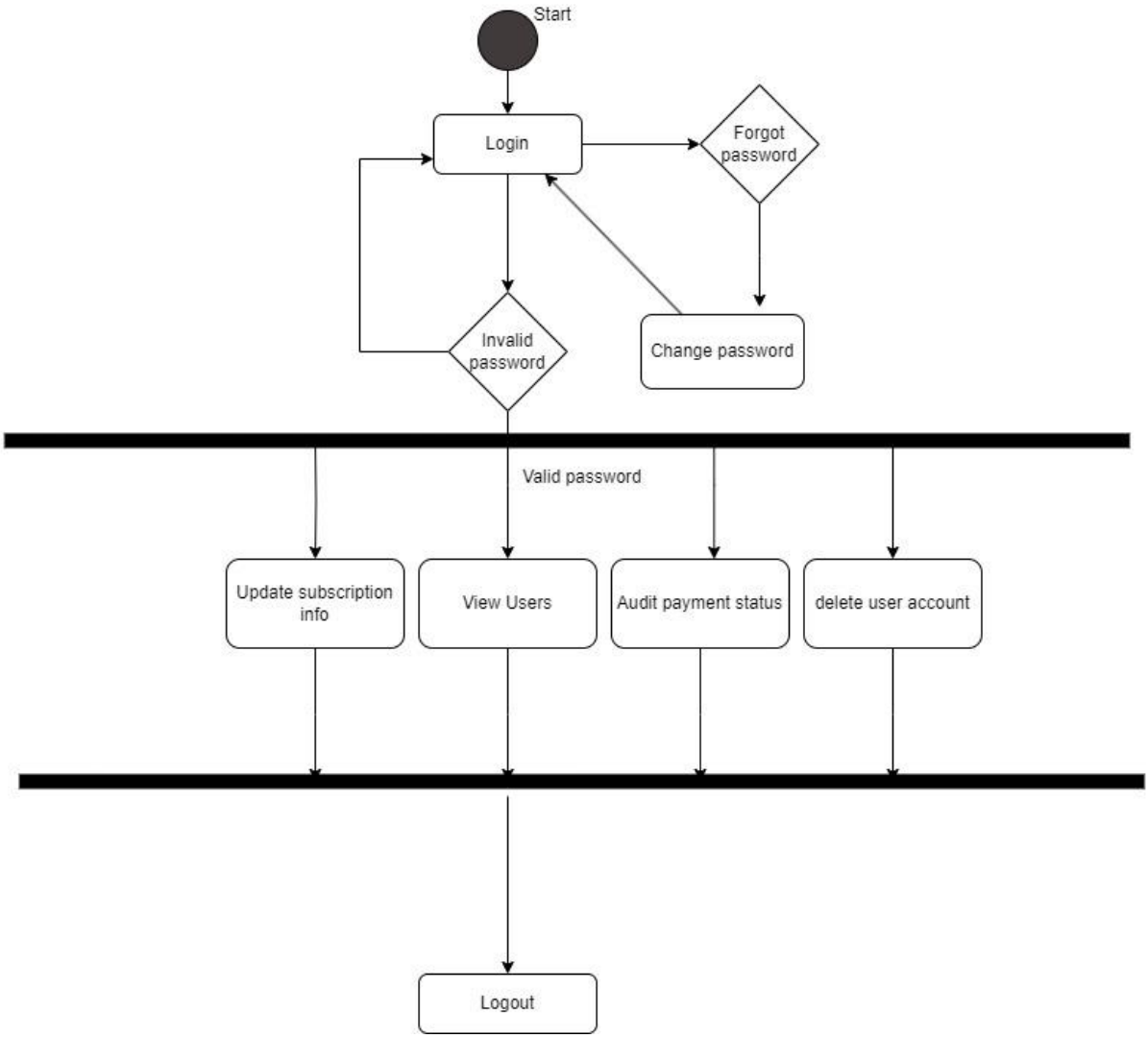


3.3.3 Activity Diagram

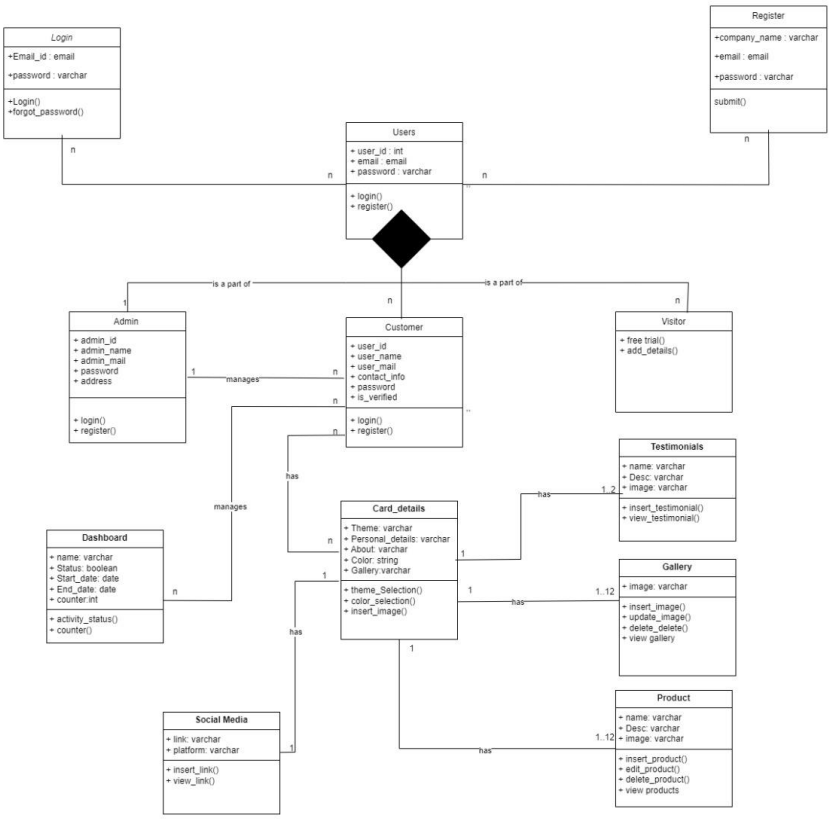
User



Admin

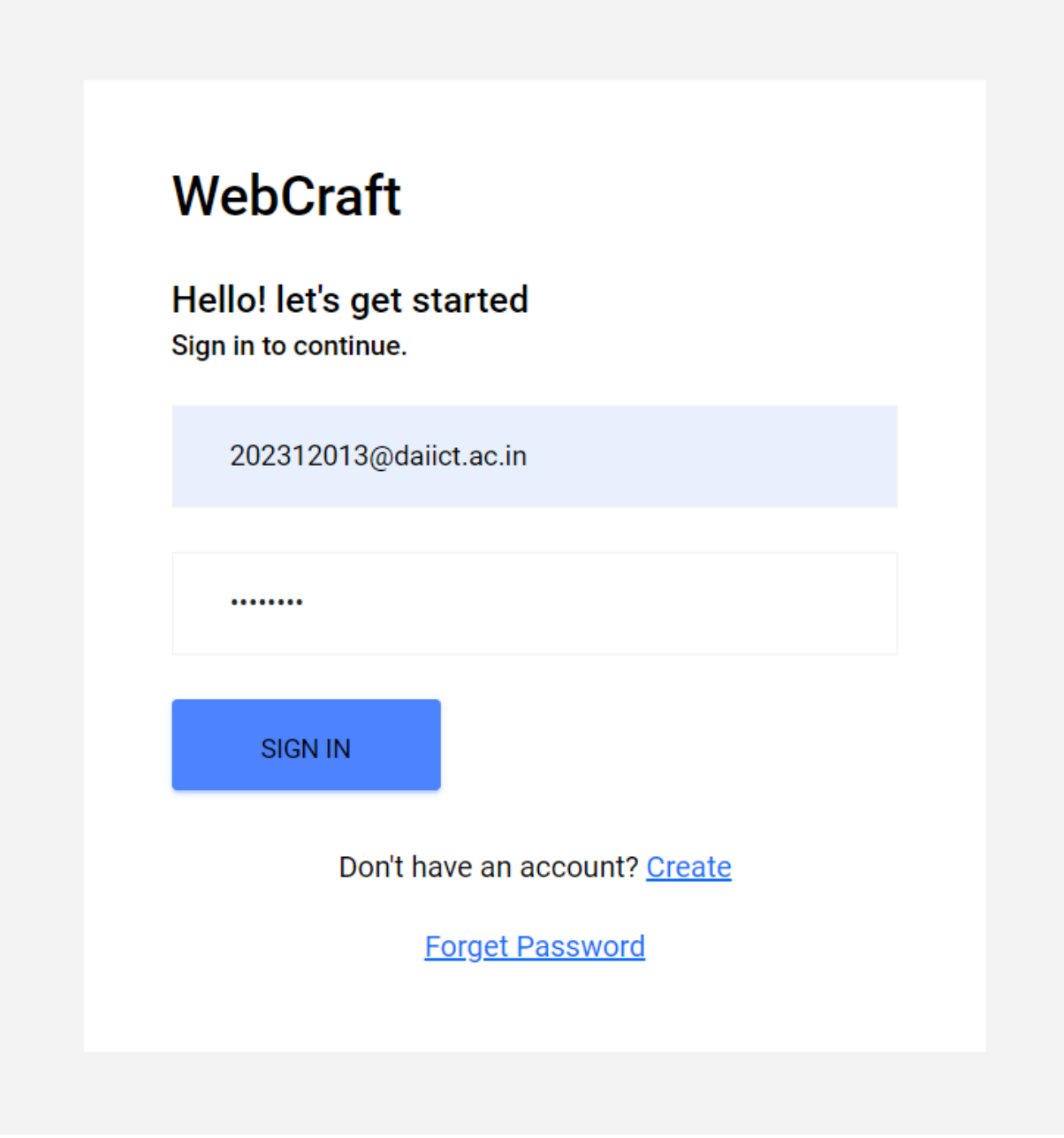

Start
Login
Forgot password
Invalid password
Change password
Valid password
Update subscription info
View Users
Audit payment status
delete user account
Logout

3.3.4 Class Diagram

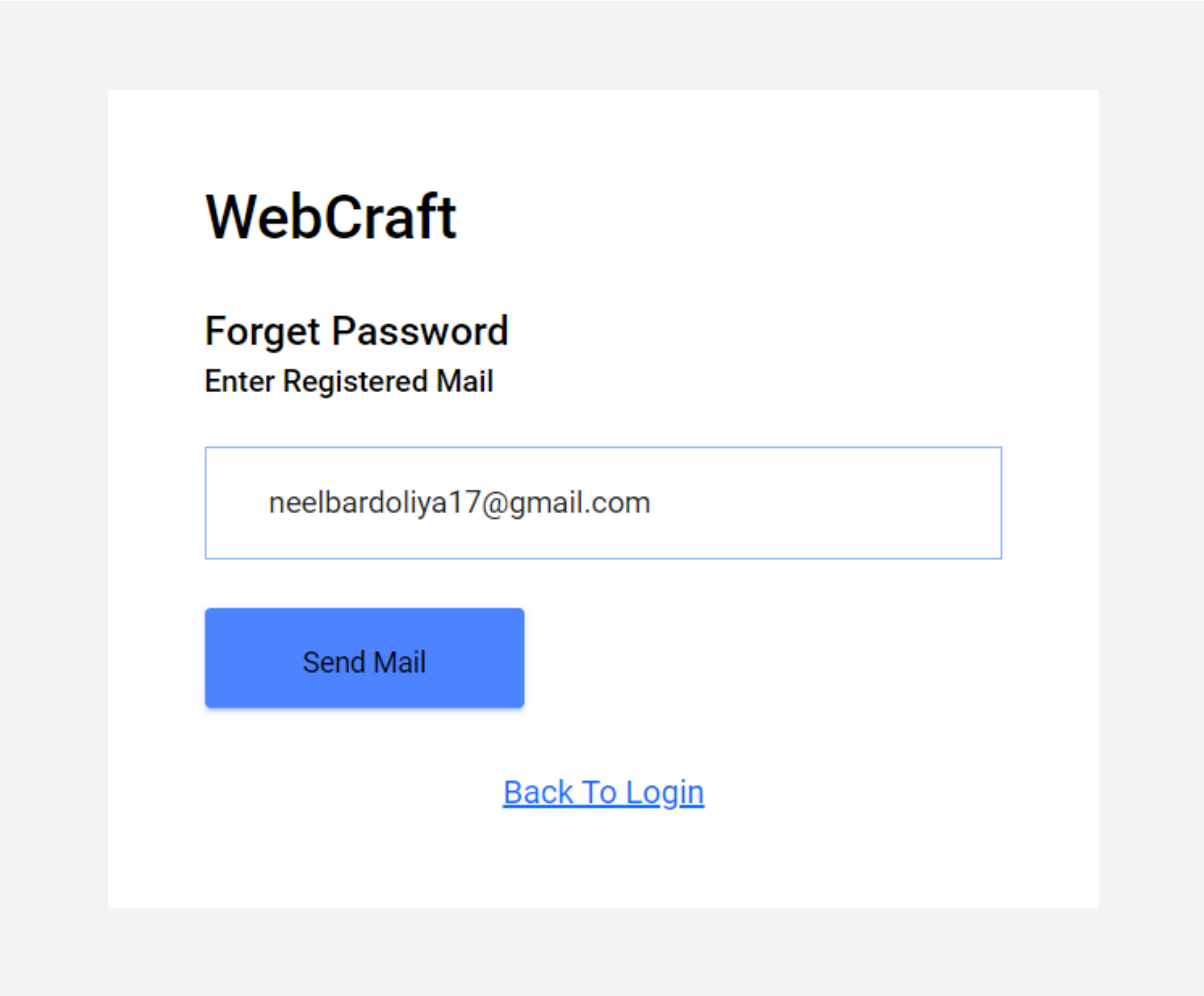


3.4 User Interface

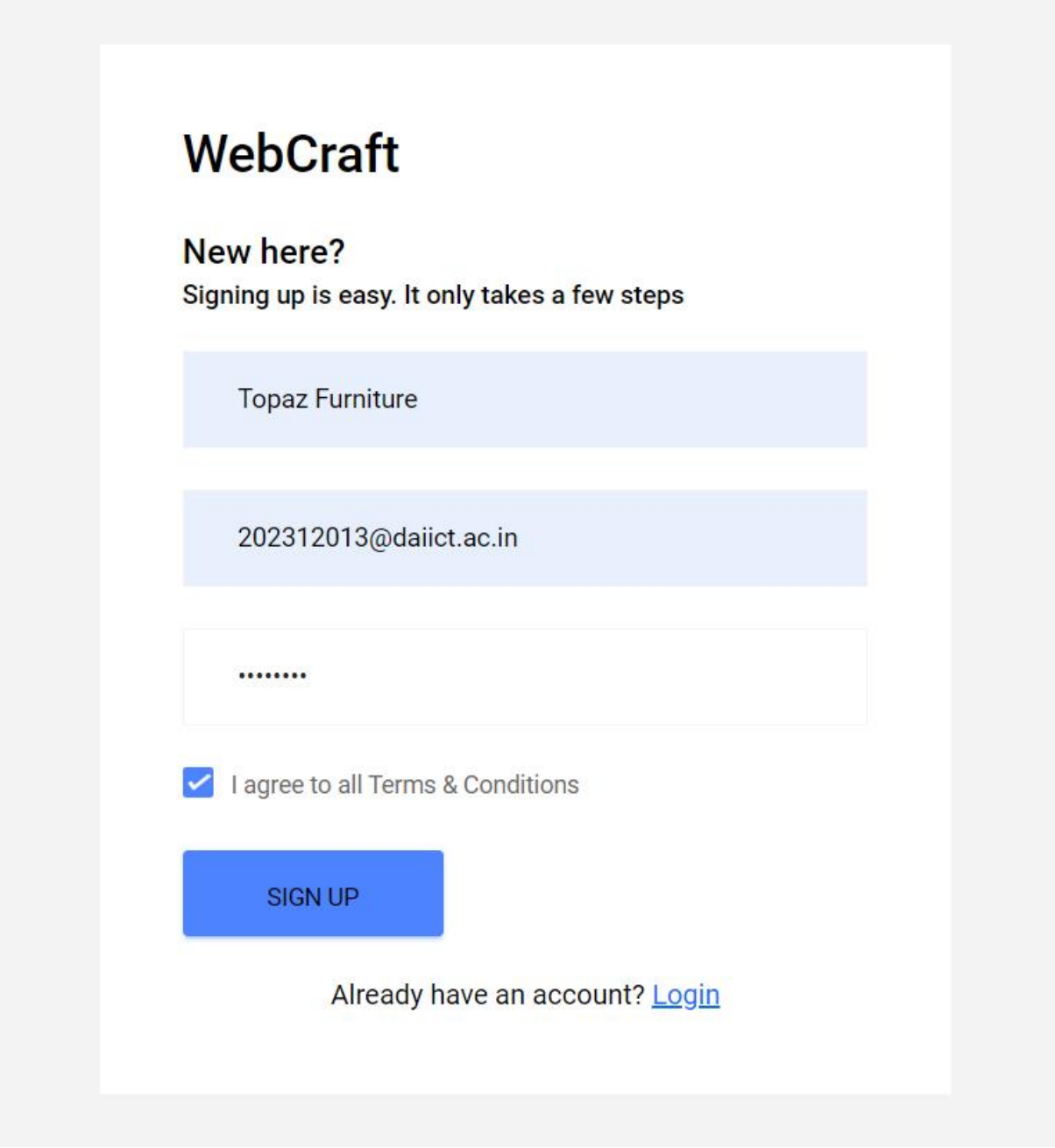
Login:



Forget

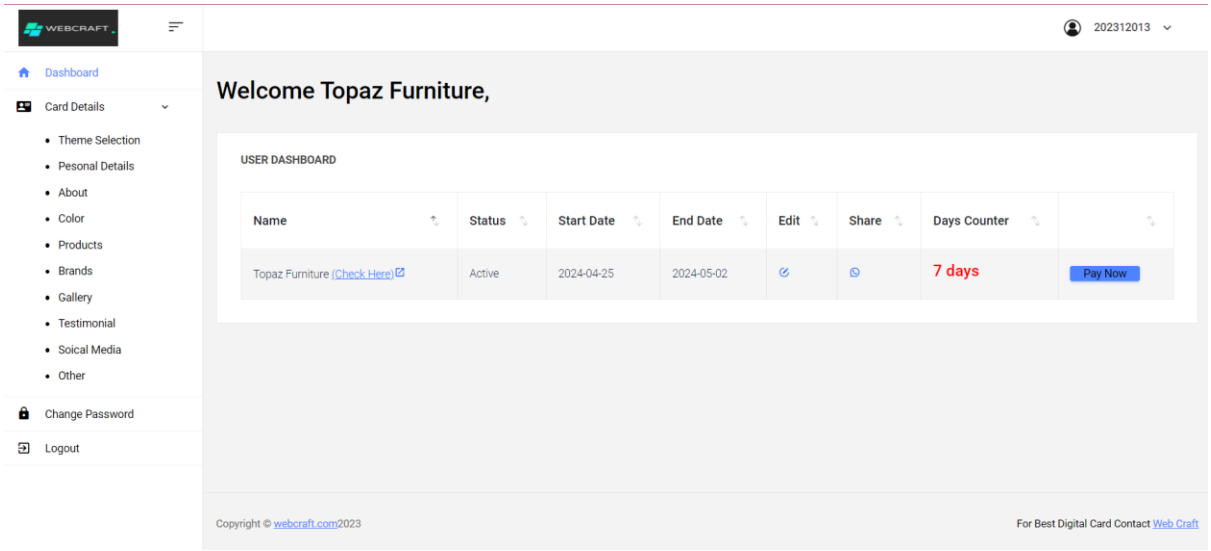

WebCraft
Forget Password
Enter Registered Mail
neelbardoliya17@gmail.com
Send Mail
Back To Login

Register:

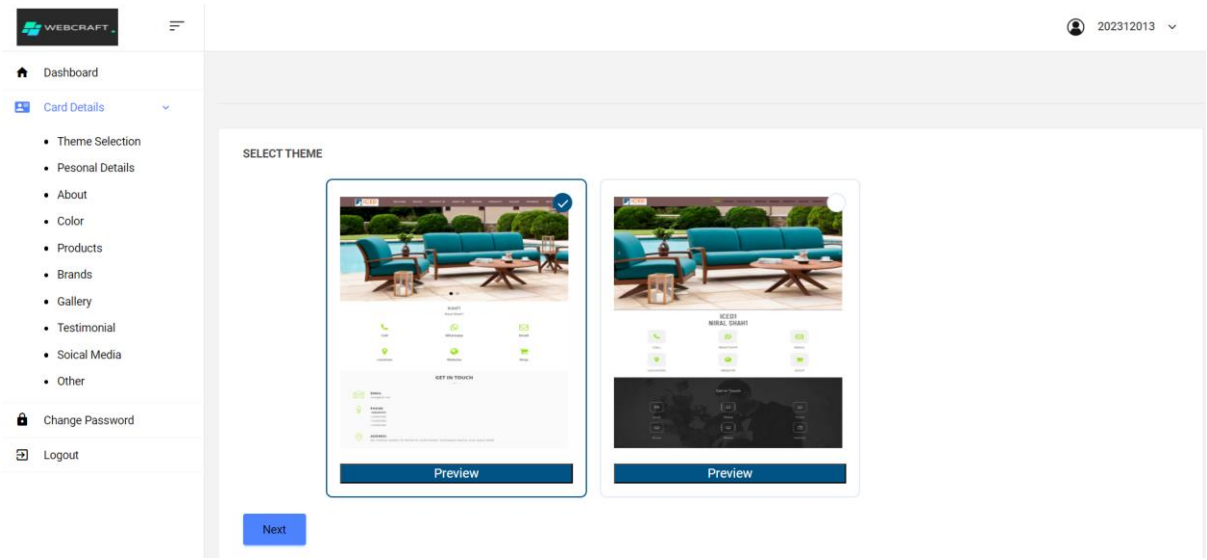

WebCraft
New here?
Signing up is easy. It only takes a few steps
Topaz Furniture
202312013@daiict.ac.in
I agree to all Terms & Conditions
SIGN UP
Already have an account? Login

Email verification:

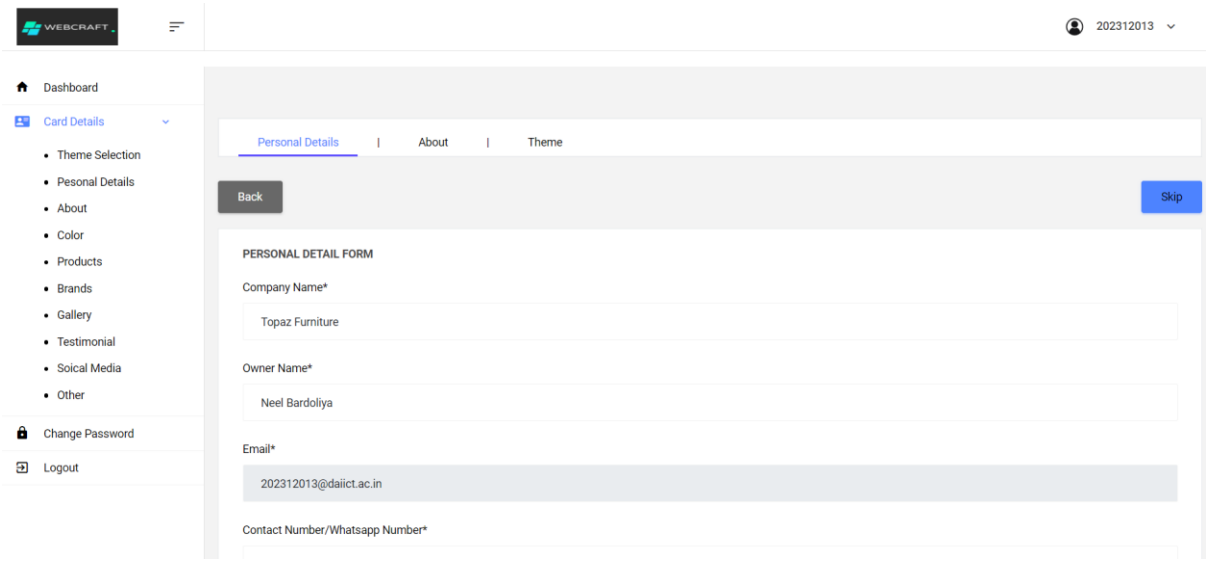
Dashboard:



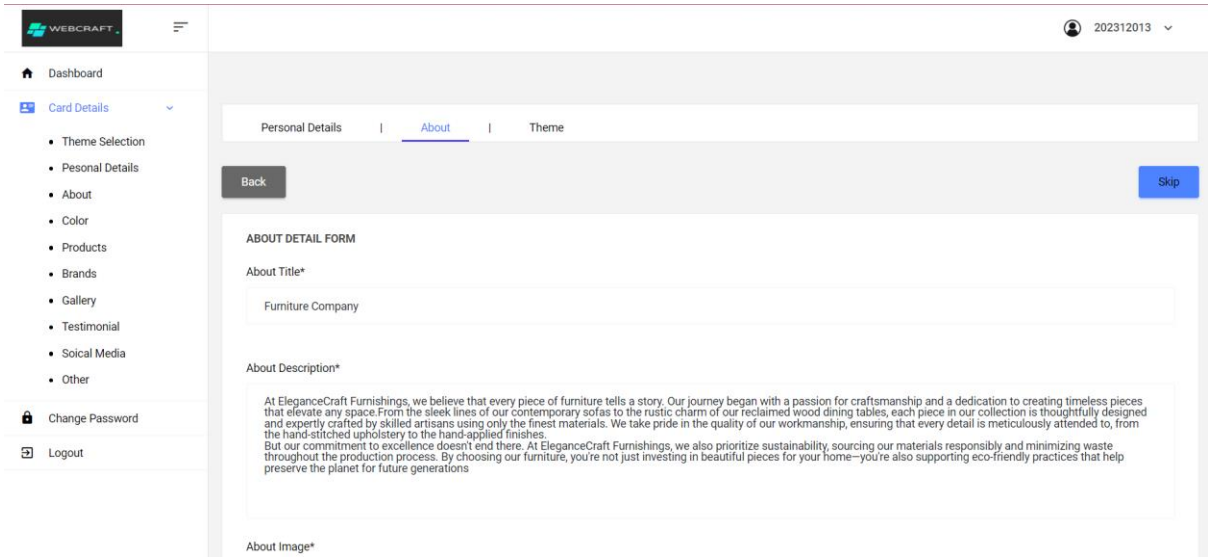
Theme selection:



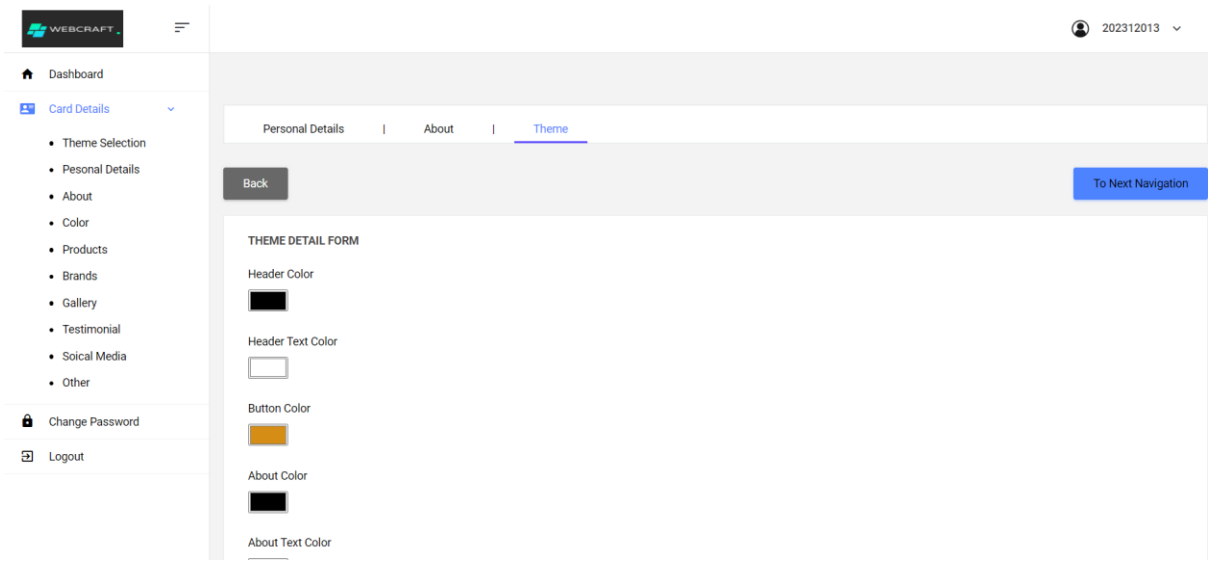
Personal Details page:



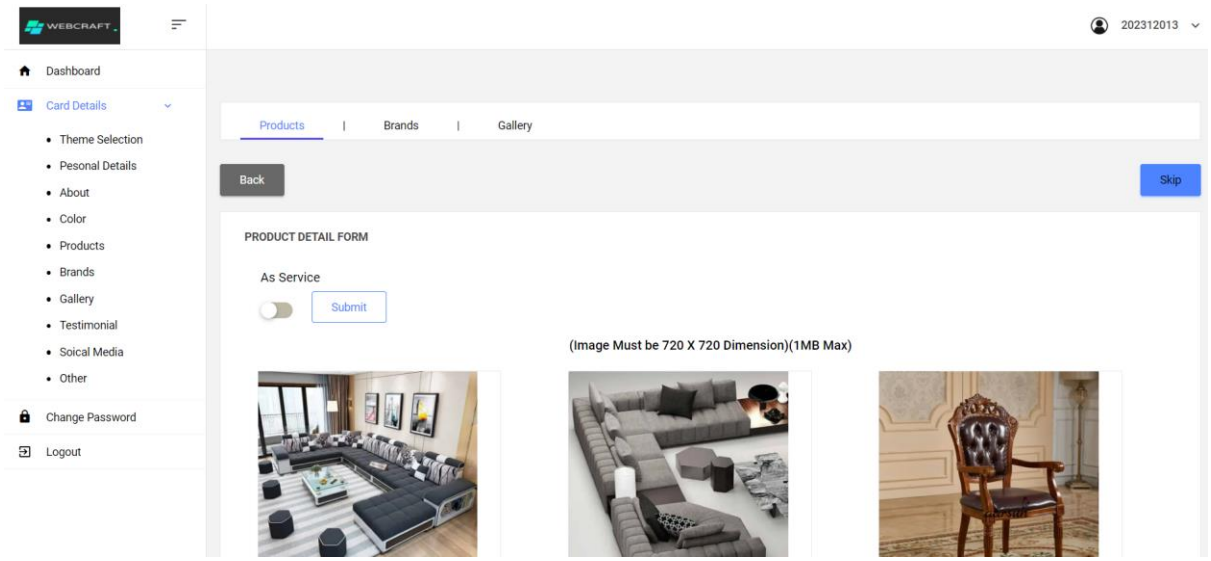
About page:



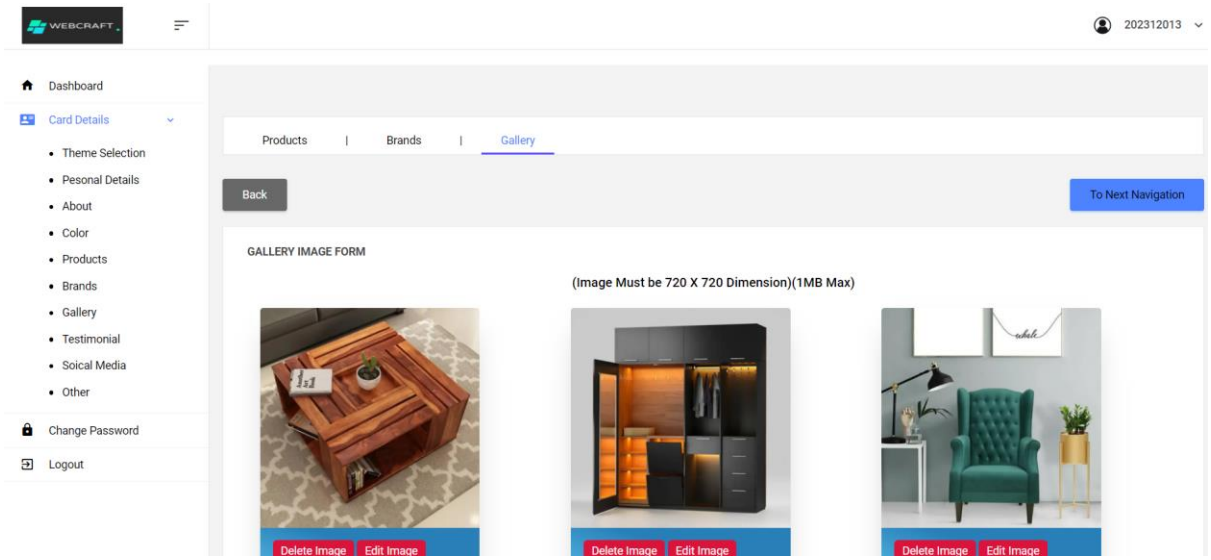
Color Selection Page:



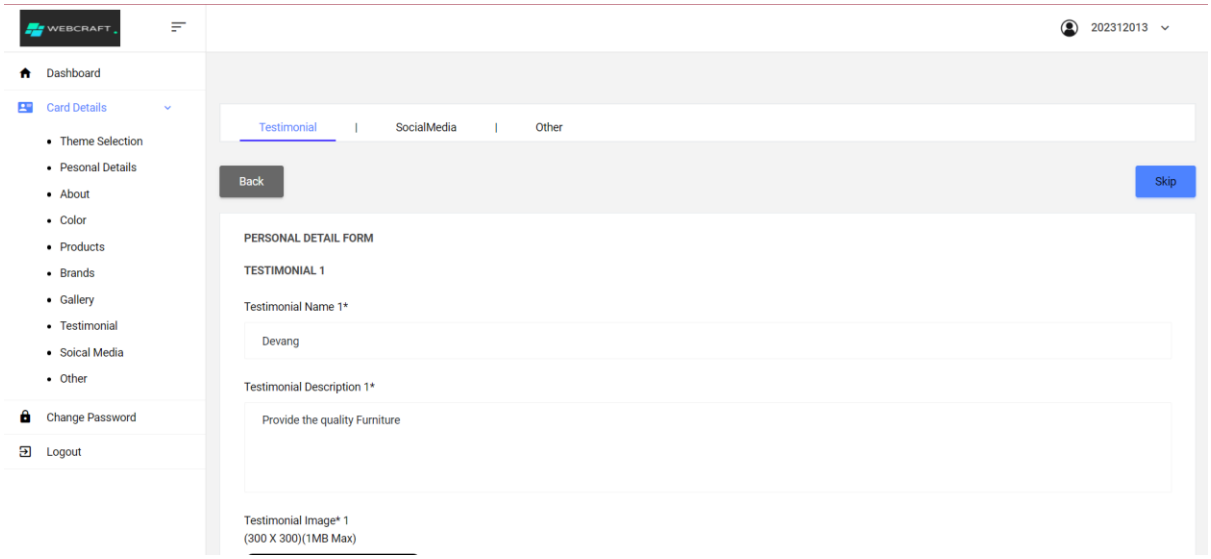
Product page:



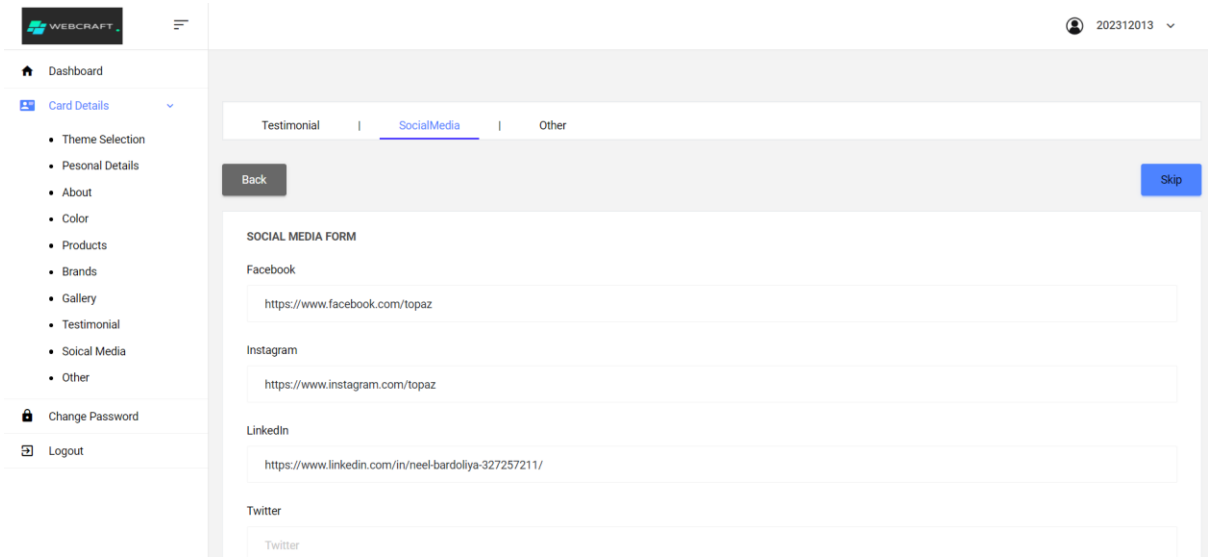
Gallery Page:



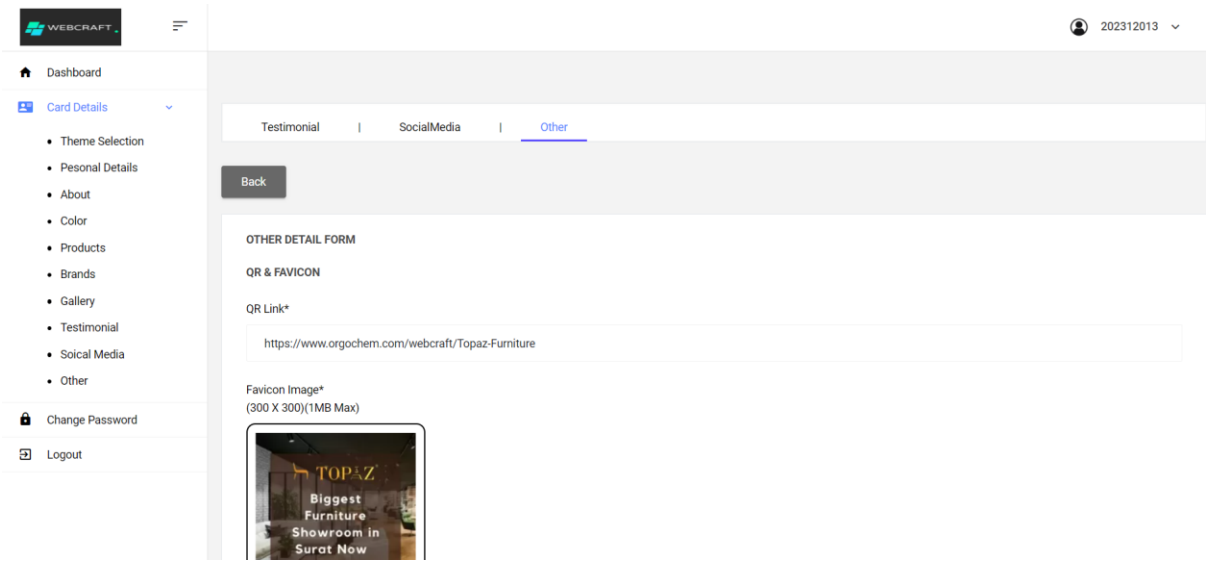
Testimonial Page:



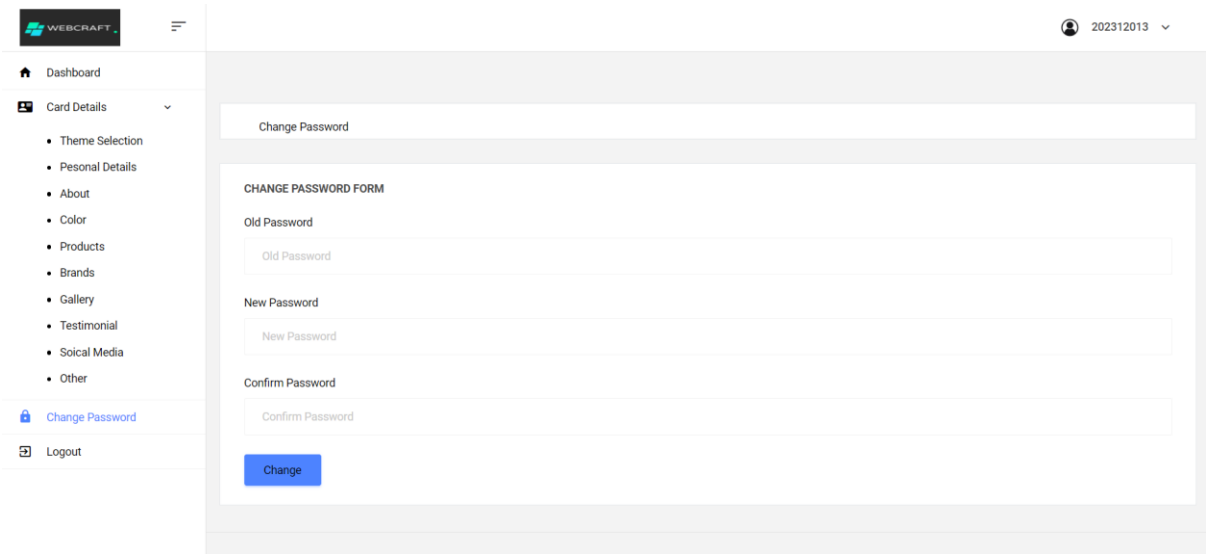
Social Media Page:



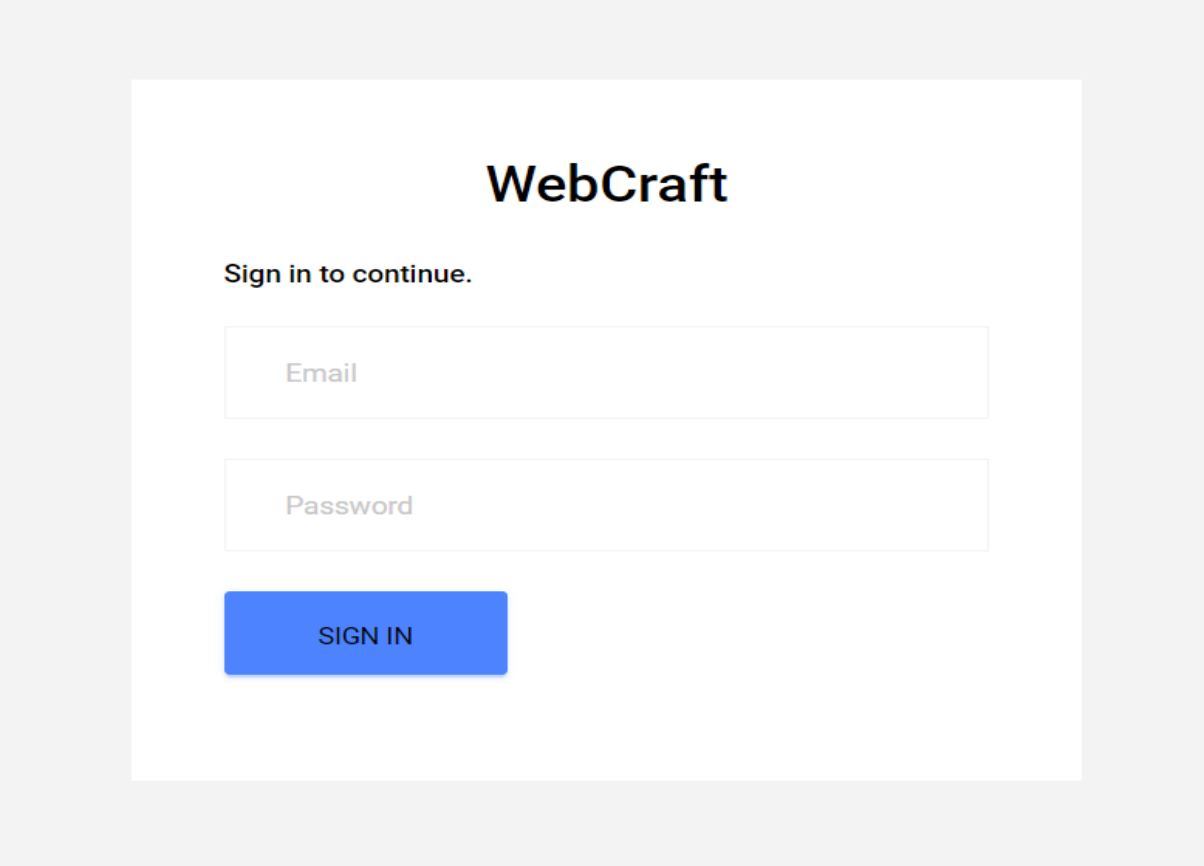
Other Details Page:



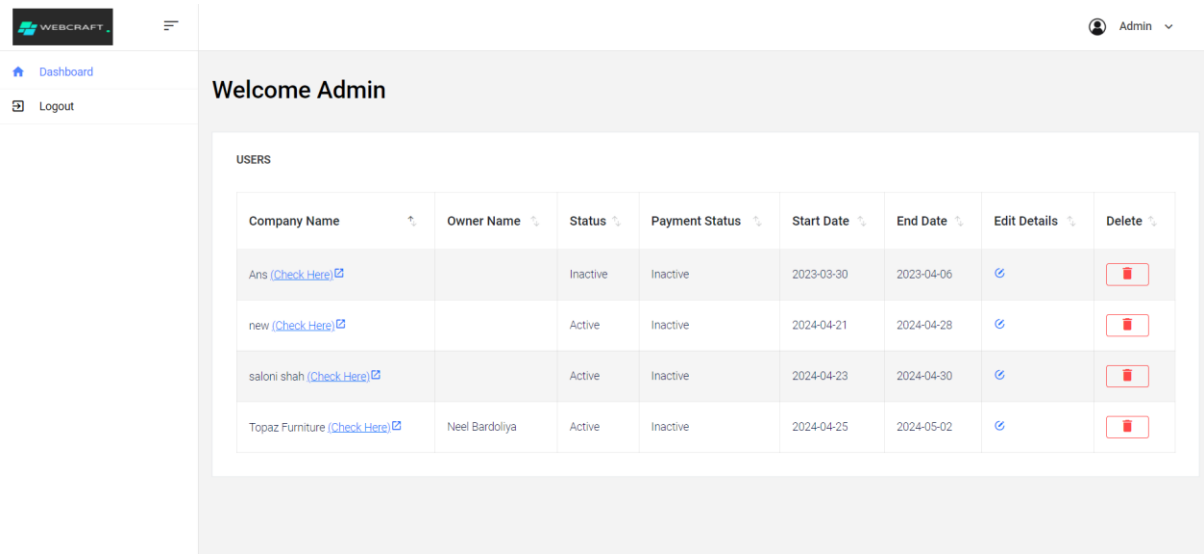
Change Password Page:



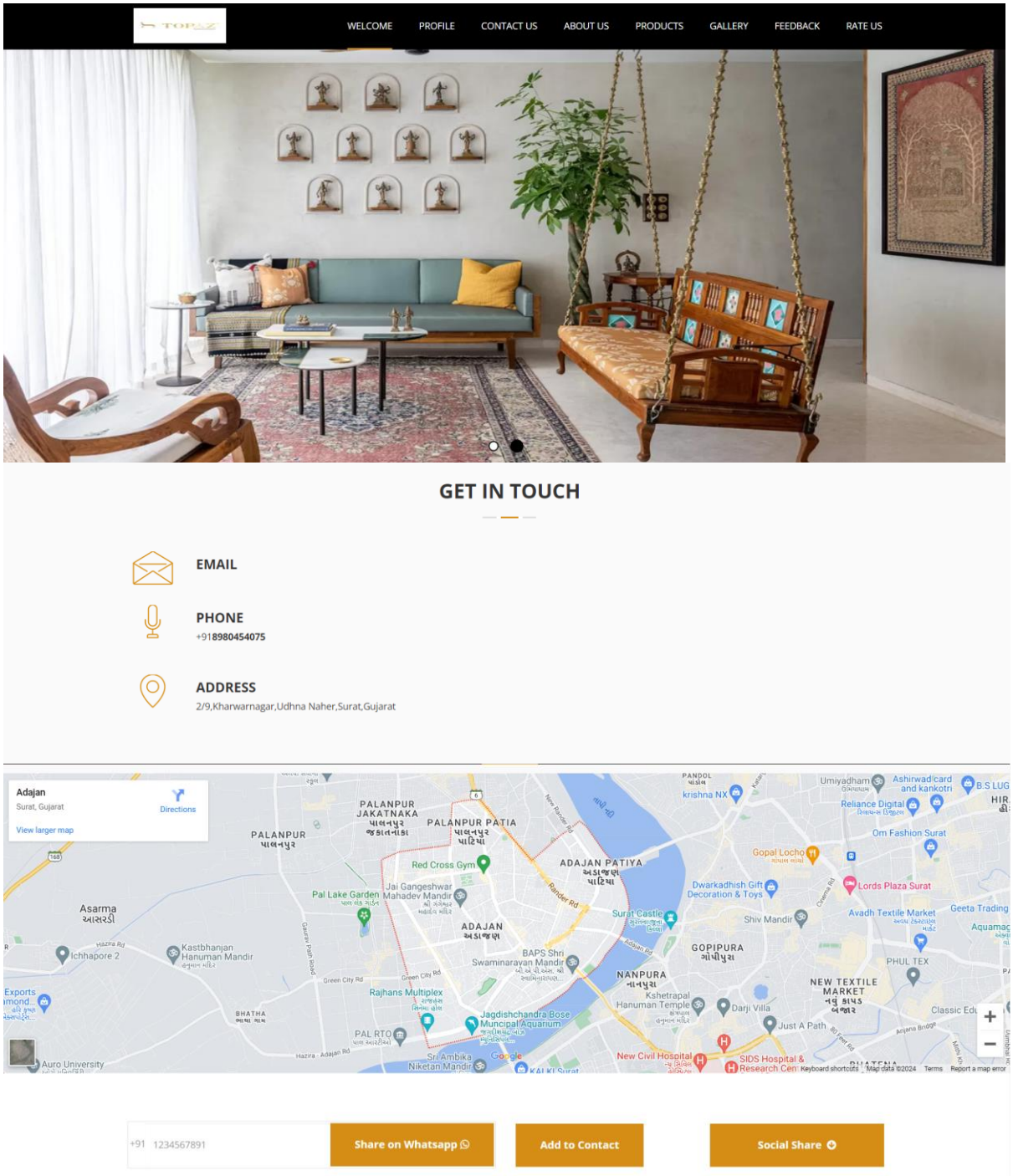
Admin Login:

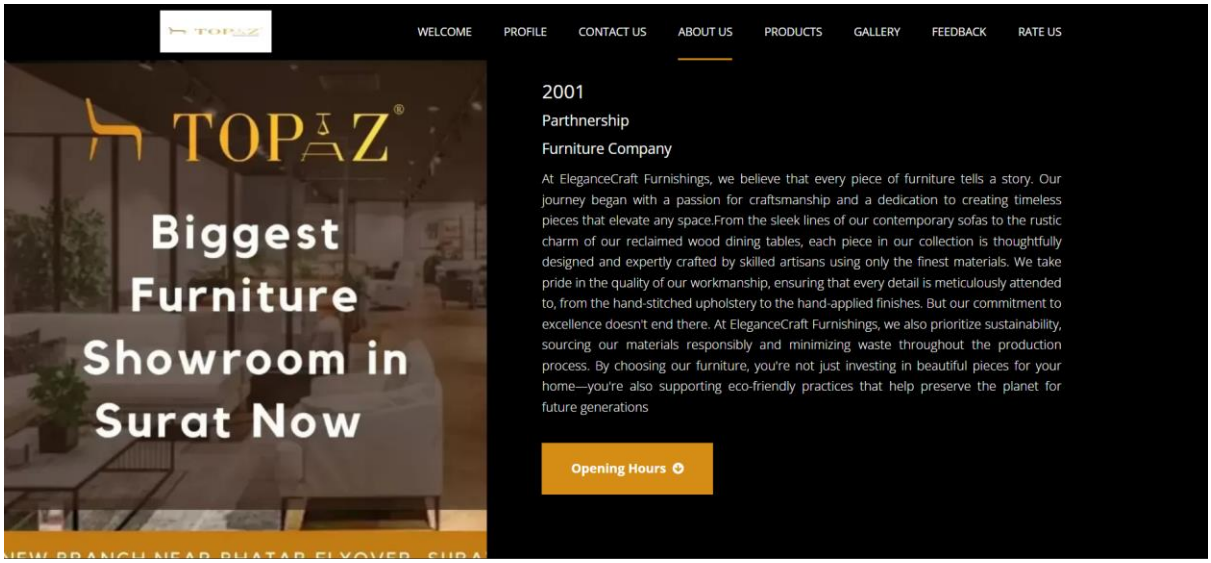


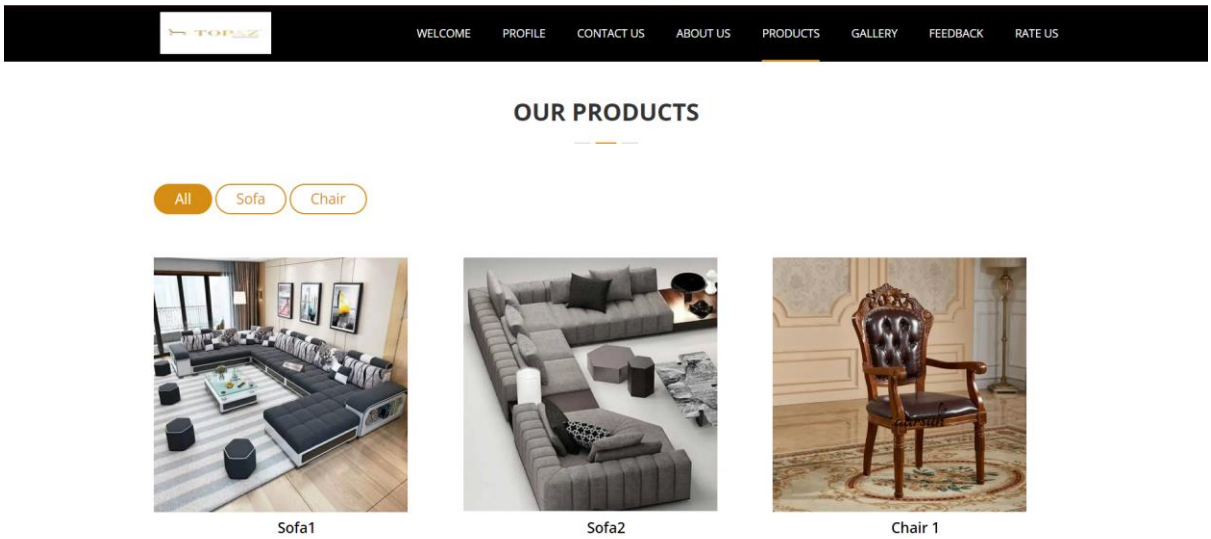
Admin dashboard:

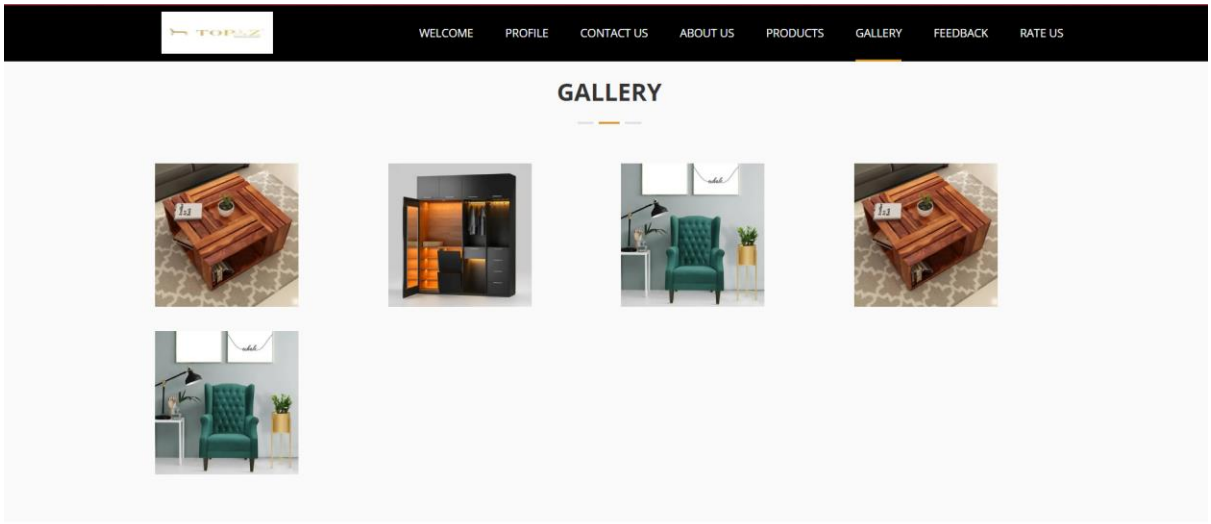


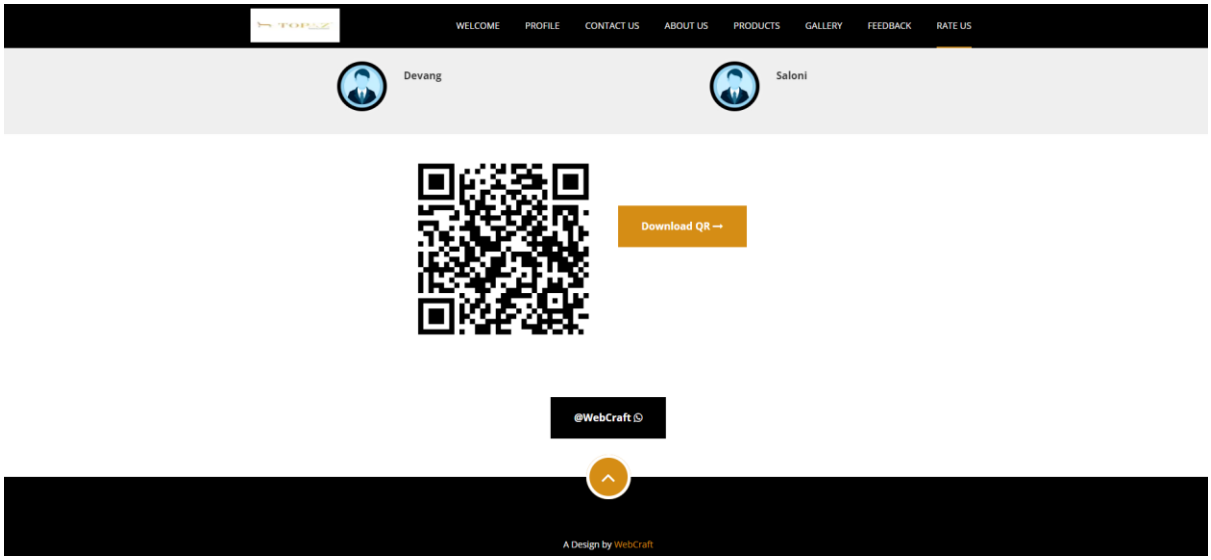
User Website:




WELCOME
PROFILE
CONTACT US
ABOUT US
PRODUCTS
GALLERY
FEEDBACK
RATE US
TOPAZ
Biggest Furniture Showroom in Surat Now
2001
Parthnership
Furniture Company
At EleganceCraft Furnishings, we believe that every piece of furniture tells a story. Our journey began with a passion for craftsmanship and a dedication to creating timeless pieces that elevate any space.From the sleek lines of our contemporary sofas to the rustic charm of our reclaimed wood dining tables, each piece in our collection is thoughtfully designed and expertly crafted by skilled artisans using only the finest materials. We take pride in the quality of our workmanship, ensuring that every detail is meticulously attended to, from the hand-stitched upholstery to the hand-applied finishes. But our commitment to excellence doesn't end there. At EleganceCraft Furnishings, we also prioritize sustainability, sourcing our materials responsibly and minimizing waste throughout the production process. By choosing our furniture, you're not just investing in beautiful pieces for your home—you're also supporting eco-friendly practices that help preserve the planet for future generations
Opening Hours


WELCOME
PROFILE
CONTACT US
ABOUT US
PRODUCTS
GALLERY
FEEDBACK
RATE US
OUR PRODUCTS
All
Sofa
Chair
Sofa1
Sofa2
Chair 1


WELCOME
PROFILE
CONTACT US
ABOUT US
PRODUCTS
GALLERY
FEEDBACK
RATE US
GALLERY


WELCOME
PROFILE
CONTACT US
ABOUT US
PRODUCTS
GALLERY
FEEDBACK
RATE US
Devang
Saloni
Download QR
@WebCraft
A Design by WebCraft

CHAPTER : 4

Assumptions

- The Customer should have access to the internet services because WebCraft relies on a stable internet connection to facilitate real-time updates, online customization, and communication between the system and users.

- The user is proficient in using personal computers as the system requires users to be familiar and competent with computer usage.

CHAPTER : 5

Summary

- The document provides a detailed overview of WebCraft, a digital business website management platform aimed at offering a user-friendly solution for professionals and businesses to create, personalize, and manage their digital business cards.

- It outlines the purpose, features, intended audience, scope, and stakeholders of the system.

- Additionally, it covers functional and non-functional requirements, user requirements, and includes analysis and design aspects such as entity relationship diagrams, data flow diagrams, unified modeling language diagrams, and user interface considerations.

- The summary encapsulates the comprehensive nature of the document, serving as a reference and guide for stakeholders involved in the project.

THANK YOU