



CAPSTONE PROJECT REPORT

PCID - Provide and Consult Interior Designing

Provide and consult interior designing	
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Supervisor	Nguyễn Gia Trí
Group Name	Flame
Capstone Project Code	PCID

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I. Project Introduction:

1. Overview:

1.1. Project Information:

- Project name: A web application to provide and consult interior designing
- Project code: PCID
- Group name: Flame
- Software type: Web Application

1.2. Project Team:

a. Supervisor – Supporter:

Full Name	Email	Phone number	Title
Nguyễn Gia Trí	tring2@fe.edu.vn	0983099309	Dr.

b. Team Members:

Full Name	Email	Phone number	Role
Đoàn Ngọc Phúc	phucdnde140011@fpt.edu.vn	0935677115	Leader
Nguyễn Minh Tuệ	tuenmde140102@fpt.edu.vn	0941346917	Member
Hồ Lê Thế Anh	anhhltde140260@fpt.edu.vn	0816556070	Member
Nguyễn Anh Bình Minh	minhnabde140103@fpt.edu.vn	0915840633	Member
Lê Trần Đăng Khoa	khoaltdde130127@fpt.edu.vn	0582239734	Member

2. Product Background:

- Nowadays, people's living standards are more and more high state-of-the-art. House designing especially, interior designing is one of the most attractive and concerned things that can be a benefit in areas of life. According to that huge demand, interior designing service has been created. Traditional interior design is an amazing way to get help navigating the design process. But due to cost or location, it's simply not an option for everyone.
- Consequently, we are building a web application to provide and consult interior design. Our fully online platform makes working with your personal designer more convenient and accessible. No more comparing schedules and coordinating in-person consultations. You get design ideas sent straight to your inbox and collaborate with your designer over video call or instant messaging—all on your schedule.

3. Existing Systems:

3.1. Thaicong: <https://thaicong.com/vi/>

Thai Cong is a famous Vietnamese interior designer. His website supply basic services such as his worked construction, interior design, interior decoration, and shop for the interior.



Image 1, 2: Thai Cong website

- Pros:

- Nice arrangement and color make the website look elegant.
- His worked constructor is amazing so that this is a trustingly website.
- Supply variety type of interior.

- Cons:

- Most of his interior is from Western countries with high quality so that the price is high and not suitable for most people.

- Traditional interior design: Difficult to work with people in the distance.

3.2. Havenly: <https://havenly.com/>

Havenly is a web application for interior designing and interior shopping. This is one of the prestigious interior websites, draws a lot of attention using this interior design service, and also receives much positive feedback from users.

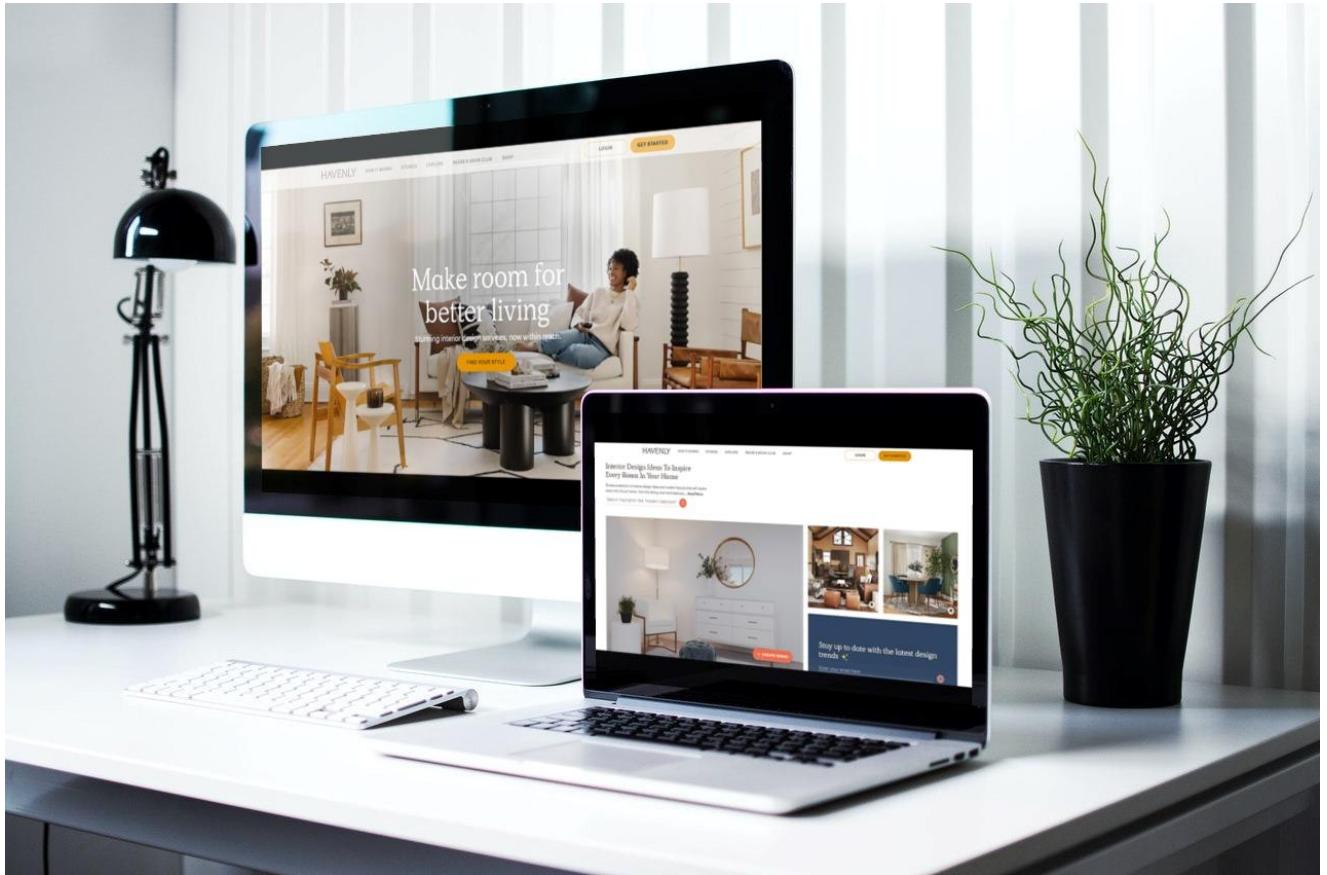


Image 3, 4: Havenly website

- Pros:

- Nice and smooth user interface, responsible.
- Can be used on website and mobile app.
- Variety of data and amazing ideas
- Good story
- Nice & Smooth UI/UX
- Price of design package is affordable.

- Cons:

- Loading page sometime takes time.

4. Business Opportunity:

Nowadays, interior design has become one of the important factors in areas of life. Normally, an interior website will be just a website for interior shopping or is a place to introduce to an interior design company and perform their works. In addition, those websites lack of the connection between designers and customers, all information received by customers is oneway, lacking interaction.

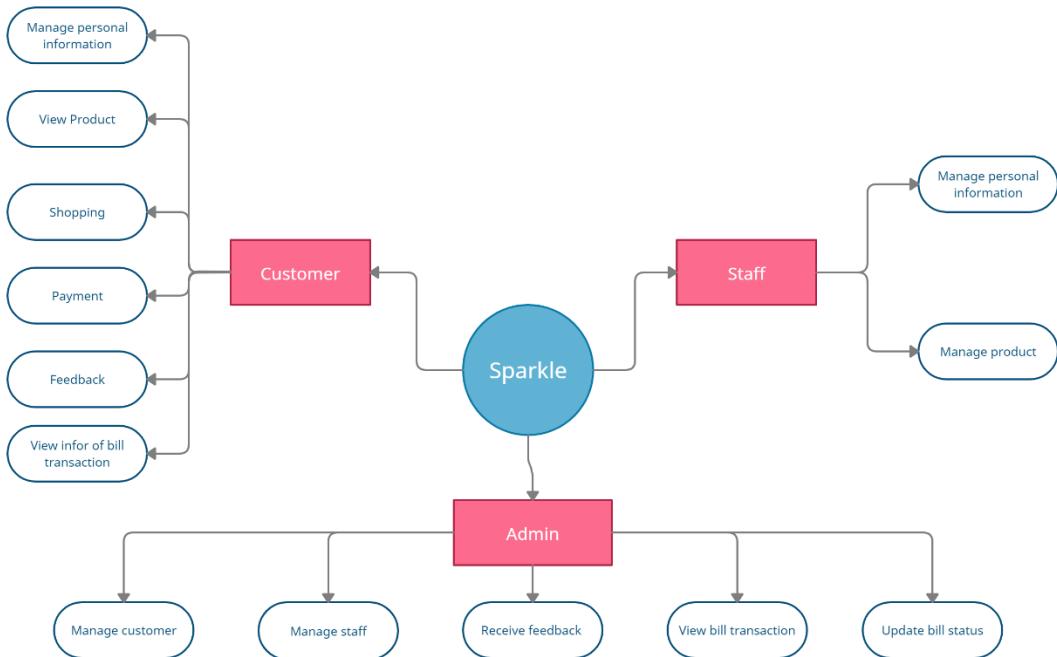
5. Software Product Vision:

Regarding our website, we are hoping to provide a contemporary solution field of interior designing with professional ideas and creativity. Our mission is to help people finding their own style with the connection of variety ideas to ensure it becomes a unique and personalized expression of their personality, with exquisite ambiance.

6. Project Scope & Limitations:

6.1. Major Features:

- Admin / Business side:
 - FE-01: View, update, delete, block customers.
 - FE-02: Create, update, delete staffs.
 - FE-03: View all the bill transactions, update bill status.
 - FE-04: Receive feedback.
- Customer side:
 - FE-01: Create, view, update personal information.
 - FE-02: View full product details, sort products.
 - FE-03: View, create, delete all products in the shopping cart.
 - FE-04: Make payment in multiple ways.
 - FE-05: Feedback.
 - FE-06: View the information of bill transactions.
- Staff side:
 - FE-01: View, update their information.
 - FE-02: View, create, update, delete, and sort products.
 - FE-03: View full product details.



Graph 1: PCID Features

6.2 Limitations & Exclusions:

- Limitations:

- Few products, not diversity
- Only basic functions
- Not very professional
- Low performance
- Low scale system - Exclusions:
- Not available for mobile device
- 2D, 3D design deature will be developed in the future

II. Project Management Plan:

1. Overview:

1.1. WBS & Estimation:

#	WBS Item	Complexity	Est. Effort (days)
1	Study Project		53
1.1	Research / Writing Use - Case	Complex	7

1.2	Research Technology	Medium	4
1.3	Train React	Complex	21
1.4	Train Spring Boot	Complex	14
1.5	Train GitHub	Simple	2
1.6	Write Report	Medium	4
1.7	Mentor Meeting	Simple	1
2	Design System		33
2.1	Research / Writing User Requirement	Complex	7
2.2	Develop Database Schema	Complex	5
2.3	Create a Sample Dataset	Medium	2
2.4	Design Website Prototype	Complex	7
2.5	Create a Project Framework	Complex	7
2.6	Write Report / Document	Medium	4
2.7	Mentor Meeting	Simple	1
3	Build the System		59
3.1	Build a Class Management System	Complex	10
3.2	Code HTML Pages for the Website	Medium	7
3.3	Code UI for the Website	Complex	15
3.4	Code Back-End Side for the Website	Complex	15
3.5	Deploy the Code	Medium	5
3.6	Write Report / Document	Complex	4
3.7	Mentor Meeting	Simple	3
4	Test the System		23
4.1	Test the Website	Medium	7
4.2	Fix the Bugs	Medium	7
4.3	Deploy the Code	Medium	2
4.4	Write Report / Document	Complex	5
4.5	Mentor Meeting	Simple	2

5	Demonstration		8
5.1	Get User Feedback	Simple	2
5.2	Update According to User Needs	Simple	2
5.3	Write Report / Document	Simple	2
5.4	Mentor Meeting	Simple	2

Total Estimated Effort (days)

176

1.2. Project Objectives:

#	Quality Stage	No. of Defects	% of Defects	Notes
1	Reviewing	40	~60%	N/A
2	Unit Test	10	~15%	N/A
3	Integration Test	10	~15%	N/A
4	System Test	5	~10%	N/A
5	User Acceptance Test	N/A	N/A	N/A

Total	65	100%
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1.3. Project Risks:

#	Risk Description	Possibility	Impact	Response Plans
1	Lack of clarity in Project purpose and need	Low	High	Be careful in defining Project purpose, need from the beginning
2	Poor Project schedule	Medium	Medium	Draw Project schedule clearly and everyone must follow
3	Unplanned work	Low	High	Try not to do random works, follow the plan
4	Lack of communication	Medium	High	Improve teamwork, raise problems for team to solve, respect other members
5	Technical difficulties	High	High	Prepare deep knowledge, attend training meeting, members are encouraged to share knowledge about the technical, help others
6	Scope Creep	Low	High	Changes and updated features in Project Scope must always be checked by Project Board
7	Lack of motivation	Medium	Medium	Leader and members try to motivate each other, keep an active environment
8	Delay Task	High	High	Leader must plan appropriate task schedule and performance for members
9	Getting big and small pictures	High	Medium	Every members have to keep the big picture in mind while also attending to the details

2. Management Approach:

2.1. Project Process:

- In this project, our team has agreed to use Agile methodology to approach the project.
- The reasons why we chose this approach:

+ More adaptability (and less risk): This means, the project is liable to change. We have some ideas about an update in the future with 2D, 3D tech, so requirements continue to develop over lifetime of the project and are defined when we need.

+ Happier teams: Agile teams are more autonomous. That is, they're often granted the freedom to suggest new ideas, innovate, and problem-solve that can be lacking in traditional project management methodologies

+ Better Project Control: Team work together, along with the product owner, to determine what goes into each sprint. That way, the team is on the same page about what needs to be delivered. Also, there is less of a chance of surprises or unplanned features making it into the build.

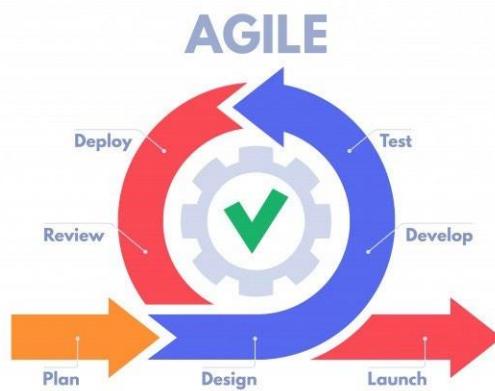


Image 5: Agile Model

2.2. Quality Management:

In expectation of assuring quality outcomes of the project, we decided to use PDCA cycle to manage quality of project



Image 6: Quality Management

2.3. Training Plan:

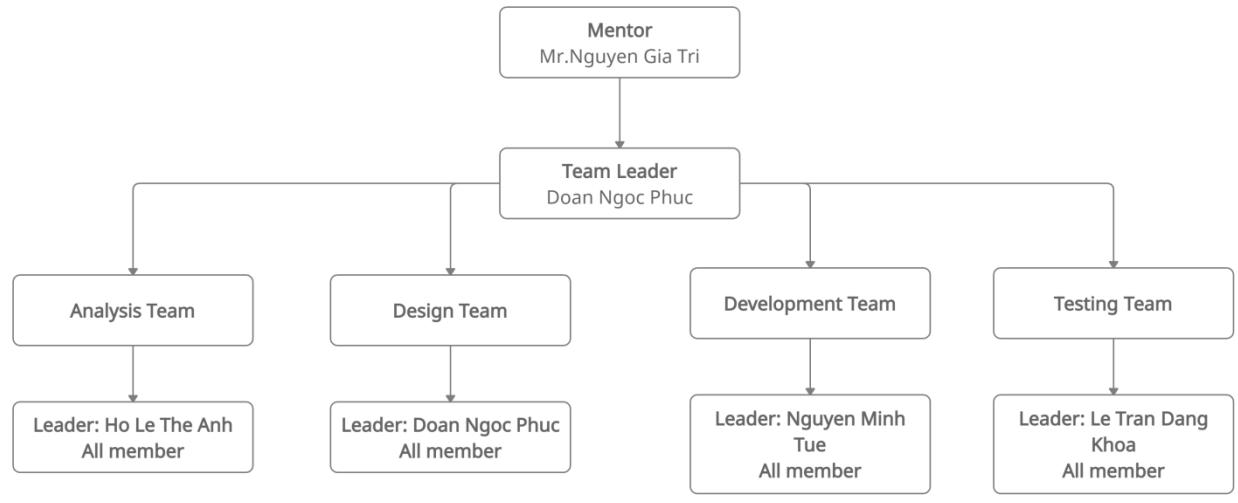
Training Area	Participants	Duration	Waiver Criteria
Spring Boot	All members	2 weeks	Compulsory
React JS	All members	3 weeks	Compulsory
GitHub	All members	2 days	Compulsory

3. Master Schedule:

No	Deliverable	Due Date	Deliverable Scope
1	Project Introduction	10/01/2022	Report No.1: Project Introduction
2	Project Plan	10/01/2022	Report No.2: Software Project Management Plan
3	SRS Document	24/01/2022	Report No.3: Software Requirement Specifications (SRS)
4	Design Document	20/03/2022	Architecture Design, Detail Design, Database Design Report No.4: Software Design Document (SDD)
5	Code Package1	07/03/2022	Code & Unit test, Deploy Code, Update SRS&SDD
6	Code Package2	21/03/2022	Code & Unit test, Deploy Code, Update SRS&SDD
7	Code Package3	28/03/2022	Code & Unit test, Deploy Code, Update SRS&SDD
8	Code Package4	04/04/2022	Code & Unit test, Deploy Code, Update SRS&SDD
9	Test Package	11/04/2022	Code, System test, Unit test, Fix Bug, Report Report No.5: Software Test Document
10	User guides	14/04/2022	Report No.6: Software User Guides
11	Final Package	15/04/2022	Final Codes & documents

4. Project Organization:

4.1. Team & Structures:



Graph 2: Team & Structures

4.2. Role & Responsibilities:

Role	Responsibility
Project Leader	<ul style="list-style-type: none"> • Specify user requirement • Control the development process • Manage and assign tasks to team members
Analysis Leader	<p>Clarify requirements about:</p> <ul style="list-style-type: none"> • Prepare documents • Design database • Create test plans • Coding • Testing
Analysis Member	<p>Clarify requirements about:</p> <ul style="list-style-type: none"> • Prepare documents • Design database • Create test plans • Coding • Testing
Design Leader	<ul style="list-style-type: none"> • GUI Design

	<ul style="list-style-type: none"> • Design database • Create test plans • Coding • Testing
Design Member	<ul style="list-style-type: none"> • GUI Design • Design database • Create test plans • Coding • Testing
Development Leader	<ul style="list-style-type: none"> • Manage process • Design database • Clarify requirements • Prepare documents • GUI design • Create test plans • Coding • Testing
Development Member	<ul style="list-style-type: none"> • Design database • Prepare documents • GUI design • Create test plans • Coding • Testing
Test Leader	<ul style="list-style-type: none"> • Create test plans • Coding • Testing
Test Member	<ul style="list-style-type: none"> • Create test plans • Coding • Testing

5. Project Communication:

5.1. Communication Plan:

Communication Item	Who (Target)	Purpose	When, Frequency	Type, Tool, Method(s)

Kick-Off	Kick-Off	Introduce the project	One time event	Offline
Meeting	Meeting	to stakeholders, manage expectations and set expectations		meeting, project charter document, presentation
Status Report	All project Stakeholders	Communicate current progress, issues and risks	Weekly, at least 24 hours before the steering committee meeting	Report
Team Meeting	Project team	Report status, identify issues, develop solutions as a team	Weekly, at least 24 hours before the steering committee meeting	Meeting, project plan, status report
Milestone Review	All Project Stakeholders	Review status, present deliverables, gather feedback, decide next steps	At project milestones	Meeting, review or demonstration of deliverables
Lessons Learned	Project Team	Review successes and failures to capture improvements for future projects	At project end	Meeting that produces a lesson learned document

5.2. External Interface:

a. FU Contact:

Function	Contact Person (name, position)	Contact address (email, telephone)	Responsibility
Supervisor	Nguyen Gia Tri	TriNG2@fpt.edu.vn (0983099309)	<ul style="list-style-type: none"> - Provide document template - Give instruction to project team - Review deliverables - Supervise project status

b. Customer Contact:

Function	Contact Person (name, position)	Contact address (email, telephone)	Responsibility
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Supervisor	Nguyen Gia Tri	(0983099309)	- Provide document template - Give instruction to project team - Review deliverables
			- Supervise project status

5.3. Communication Tools:

Communication tools	Responsibility
Google Meet	Team meeting - Chat
Facebook Messenger	Chat - File sharing on capstone project
Phone	Instant call

6. Configuration Management:

6.1. Tools & Infrastructures:

Programming languages	Java, JavaScript.
Framework	Spring Boot (Entity Framework), Bootstrap 4, React JS
API	Spring Boot Web APIs (REST APIs)
DBMS	SQL Server
IDEs/Editors	Visual Studio Code, Eclipse, Android Studio
UML tools	Draw.io
Version Control	GitHub
Deployment server	GitHub
Project management tool	GitHub
Communication	Notion.so , messenger, phone number, meet

6.2. Document Management:

- Working: use Notion for divide tasks.

Image 7: Notion

- Storage: use GitHub/Notion to manage project all document of project.
- To manage changes/versions, member will create merge request to commit their change to master branch of document.

6.3. Source Code Management:

We use GitHub to work and manage product for multiple developers commit during development time. GitHub is a strong tool to help us manage source code, avoids conflict, and is easy to track.

III. Software Requirement Specification:

1. Overall Description:

1.1. Product Overview:

What's better than the feeling of coming home to rest after hours of stressful work? So why don't we make the home more beautiful and comfortable? With a few operations on the website, our partner can easily and creatively decorate the furniture inside of your home. What we bring to you is a gift of passion, ambition and absolute satisfaction. Becoming our partner, you can trust our experienced developer team and the designer team that gives you your wish. Besides that the more you believe in us the more we can create our showroom in your area. Our ambition is that level up furniture that brings comfortability to you and your family.

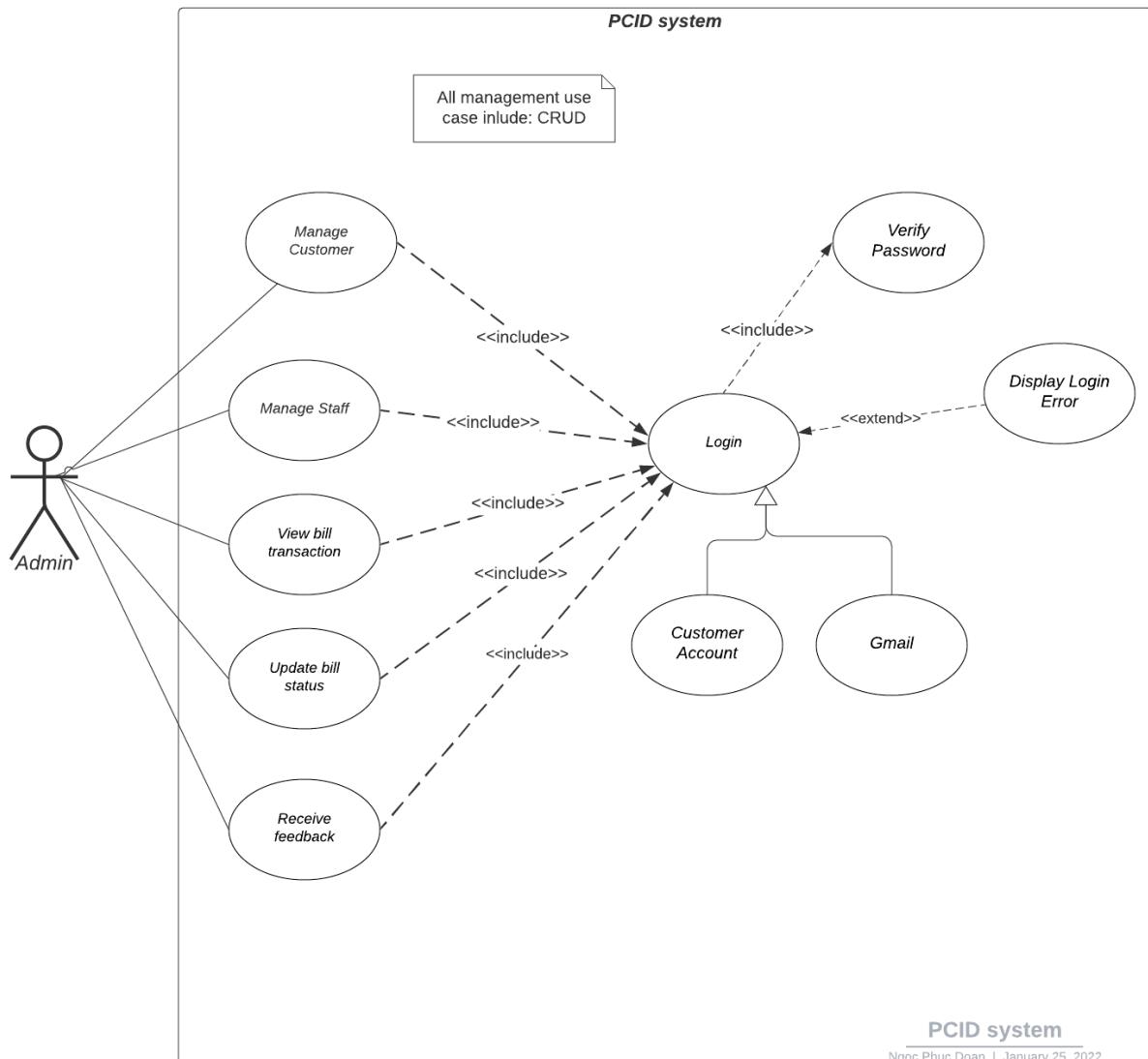
1.2. Business Rules:

ID	Rule Definition
BR-01	Guest must register account to use website service
BR-02	Guest has to use an email and username that does not exist in the system to sign up
BR-03	User has to log in to view profile, update profile and shopping
BR-04	Users who enter incorrect login information for the 6th consecutive time will be locked out of their account for 1 minutes.
BR-05	Only admin can create staff account
BR-06	Only staff can manage product
BR-07	Only admin can receive feedback from customer
BR-08	Only admin can manage customer, staff account
BR-09	Customers can cancel their orders before the products start packaging
BR-10	A design idea must contain at least 2 products and the description cannot be empty

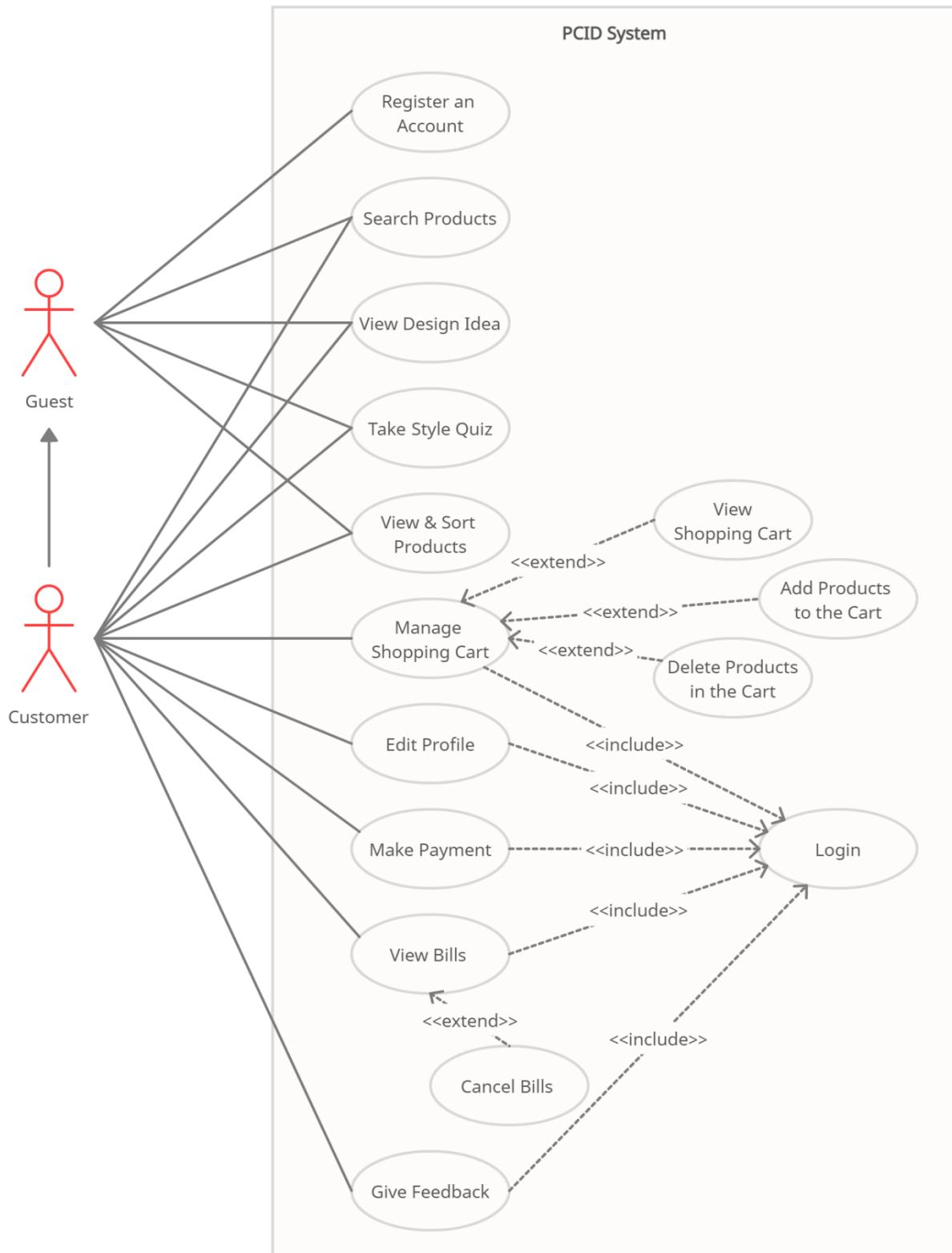
2. User Requirements:

2.1. Overview:

- a. Use-case Diagrams:



Graph 3 – Admin's Use-case



Graph 4 – Customer and Guest's Use-case



Graph 5 – Staff's Use-case

b. System Actors:

No	Actor	Description
1	Admin	Admin is a manager of the system. Admin can: - Manage customer: Update , Delete customer account - Manage staff: Create, View, Update, Delete staff account - Receive feedback from customer - View bill transaction Update bill status
2	Staff	Staff is a part of PCID system. Staff can: - Manage personal information: View, Update, Delete account - Manage product: Create, View, Update, Delete products
3	Customer	Customer is the one who uses service of the website: - Management personal information: Create, View, Update, Delete account - Take style quiz - View Design Ideas - Shopping: View & sort products, Add products to cart, Delete product from cart - Payment - Give feedback - View information of bill transaction
4	Guest	Guest are those who visit the website, guest can: - View design ideas - Take style quiz - View & Sort products

c. Use-case List:

ID	Use Case	Primary Actors	Secondary Actors
1	Register	Guest	
2	Login	Admin, Staff, Customer	
3	View Personal Information	Admin, Staff, Customer	
4	Update Personal Information	Admin, Staff, Customer	
5	View Accounts	Admin	
6	View Products	Staff, Customer, Guest	
7	Search Products	Staff, Customer, Guest	
8	View Pre-made Design Ideas	Customer, Guest	
9	Take a Style Quiz	Customer, Guest	
10	Create Staff Accounts	Admin	
11	Update Staff Accounts	Admin	
12	Update Customer Accounts	Admin	
13	Delete Staff Accounts	Admin	
14	Delete Customer Accounts	Admin	
15	Create Products	Staff	
16	Update Products	Staff	
17	Delete Products	Staff	
18	Update Bill Status	Staff	
19	Create Design Ideas	Staff	
20	Update Design Ideas	Staff	
21	Delete Design Ideas	Staff	
22	Add Products to Shopping Cart	Customer	

23	Update Products in Shopping Cart	Customer	
24	Delete Products in Shopping Cart	Customer	
25	View Products in Cart	Customer	
26	Give Feedback	Customer	
27	Make Payment	Customer	
28	View Bills History	Customer	
29	Cancel Bill	Customer	
30	Receive Feedback	Admin	
31	Logout	Admin, Staff, Customer	

2.2. Use-case Specification:

UC ID and Name	UC-01: Register		
Created By	Đoàn Ngọc Phúc	Date Created	15/1/2022
Primary Actor	Guest	Secondary Actor	
Description	This use case help a guest to create account and become a customer		
Priority	Low		
Trigger	Guest create a new account		
Pre-Condition	<ul style="list-style-type: none"> - Username is created must not existed in system - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - New customer is added to the system - Guest is authorized with Customer role in system 		

Basic Flow	<ol style="list-style-type: none"> 1. Guest clicks the “Register” button 2. The system displays the registration form with information: <ul style="list-style-type: none"> • Username • Full Name • Email • Phone Number • Address • Password • Confirm Password
	<ol style="list-style-type: none"> 3. Guest fill in all fields in the form 4. Guest click “Sign up” button 5. The system redirects guest to the login page. 6. Sign in with created register account
Alternative Flow	N/A
Exception Flow	<ol style="list-style-type: none"> 1. Username has been existed in system <ul style="list-style-type: none"> • Error message: “Username already used. Try another one” 2. Username is less than 8 characters: <ul style="list-style-type: none"> • Error message: “Username contains 8 characters” 3. Email has been existed in system: <ul style="list-style-type: none"> • Error message: “Email has been used” 4. Phone number not enough 10 digits: <ul style="list-style-type: none"> • Error message: “Phone number contain 10 digits” 5. Password is not contain at least 8 characters: <ul style="list-style-type: none"> • Error message: “ Password contains 8 characters” 6. Confirm password is not the same with password 7. One or more fields are empty. <ul style="list-style-type: none"> • Error message box: “Field(s) is empty”
Frequency of Use	Medium
Business Rules	BR-01 BR-02
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-02: Login		
Created By	Đoàn Ngọc Phúc	Date Created	15/1/2022
Primary Actor	Admin, Staff, Customer	Secondary Actor	
Description	This use case allows actors login to system		
Priority	High		
Trigger	Actors send a login command		
Pre-Condition	<ul style="list-style-type: none"> - User account has been created - User device have been connected with the internet 		
Post-Condition	<ul style="list-style-type: none"> - User has successfully logged into the system 		
Basic Flow	<ol style="list-style-type: none"> 1. Actor clicks “Login” button 2. System redirects to Login page 3. Actor inputs username and password 4. Actor clicks on “Sign up” to request login 5. System validates information 6. Redirect actor to homepage 		
Alternative Flow	<p>3b. Log in with Email account:</p> <ul style="list-style-type: none"> • Actor click on button “Sign in” and continue login normally. 		
Exception Flow	<p>5a. Incorrect user information.</p> <ul style="list-style-type: none"> • Error message: “Incorrect username/password” <p>7. User cancel login process <i>Use case stops</i></p>		
Frequency of Use	High		
Business Rules	BR-04		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-03: View Personal Information		
Created By	Đoàn Ngọc Phúc	Date Created	15/1/2022
Primary Actor	Admin, Staff, Customer	Secondary Actor	
Description	Actor want to view their detail profile		
Priority	Medium		
Trigger	Actor want to view personal information		
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - Actor has fill all personal information fields - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - Display profile of actor 		
Basic Flow	<ol style="list-style-type: none"> 1. Actor log in the system 2. Click to icon avatar and choose “Profile” 3. Show actor profile 		
Alternative Flow	N/A		
Exception Flow	<p>1b. Actor has not logged in the system <i>Use case stop</i></p>		
Frequency of Use	Medium		
Business Rules	N/A		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-04: Update Personal Information		
Created By	Đoàn Ngọc Phúc	Date Created	15/1/2022
Primary Actor	Admin, Staff, Customer	Secondary Actor	
Description	This use case is allowed user to update profile		
Priority	High		
Trigger	Actor want to change personal info		
Pre-Condition	- Actor has logged in		
Post-Condition	<ul style="list-style-type: none"> - Update profile successful - An Internet connection is available 		
Basic Flow	<ol style="list-style-type: none"> 1. Actor login to the system 2. Click to icon avatar and choose “Profile” to view profile 3. Click “Edit” to update profile 4. Click “Save” button to confirm update profile 5. Show profile after updated 		
Alternative Flow	N/A		
Exception Flow	<p>1b. Actor has not logged in the system <i>Use case stop</i></p> <p>4b. Actor click “Cancel” <i>Use case stop</i></p>		
Frequency of Use	Medium		
Business Rules	BR-03		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-05: View Accounts		
Created By	Đoàn Ngọc Phúc	Date Created	15/1/2022
Primary Actor	Admin	Secondary Actor	
Description	Admin manage all accounts		
Priority	Medium		
Trigger	Admin view customer, staff profile		
Pre-Condition	<ul style="list-style-type: none"> - Actor login as Admin role - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - Display list of customer, staff 		
Basic Flow	<ol style="list-style-type: none"> 1. Login system with admin role 2. Click “Accounts” choose Customer (or Staff) 3. Display list of Customer (or Staff) 4. Click to each Customer (or Staff) to view detail profile 		
Alternative Flow	N/A		
Exception Flow	<ol style="list-style-type: none"> 1. Login with another account <ul style="list-style-type: none"> • Error message: “Only admin can visit this page” 		
Frequency of Use	Medium		
Business Rules	BR-08		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-06: View Products		
Created By	Đoàn Ngọc Phúc	Date Created	15/1/2022
Primary Actor	Admin, Staff, Customer	Secondary Actor	
Description	Actor can view all the products by category and different style		
Priority	High		
Trigger	Actor want to view products		
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - Display all product 		
Basic Flow	<ol style="list-style-type: none"> 1. Actor login system 2. Click to “Shop” 		
	<ol style="list-style-type: none"> 3. Display all product. Actor can sort by category or style 		
Alternative Flow	N/A		
Exception Flow	<p>2b. Click on “Design Ideas”</p> <p>2b1. Click on ideas that suit you.</p> <p>2b2. Display products that are included in that design idea</p>		
Frequency of Use	High		
Business Rules	BR-03		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-07: Search Products		
Created By	Nguyễn Minh Tuệ	Date Created	15/1/2022
Primary Actor	Admin, Staff, Customer	Secondary Actor	
Description	Allow actors to search the products		
Priority	High		
Trigger	Actors type text and click search		
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - Device is connected to internet 		
Post-Condition	<ul style="list-style-type: none"> - Products with related name, category displayed 		
Basic Flow	<ol style="list-style-type: none"> 1. Actors type text, select category of products 2. Actors click search button 3. List of products is displayed 		
Alternative Flow	<p>2a. Actors press Enter <i>Use case continues step 3</i></p>		
Exception Flow	N/A		
Frequency of Use	High		
Business Rules	N/A		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-08: View Pre-made Design Ideas		
Created By	Nguyễn Minh Tuệ	Date Created	15/1/2022
Primary Actor	Customer, Guest	Secondary Actor	
Description	Allow actors to view Design Ideas		
Priority	High		
Trigger	Actors want to refer some Design Ideas		
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - Device is connected to internet - Design Ideas are available 		
Post-Condition	<ul style="list-style-type: none"> - Design Ideas are displayed for actors to select 		
Basic Flow	<ol style="list-style-type: none"> 1. Actors click Design Ideas label on home page 2. List of Design Ideas is displayed 3. Actors choose what they want 		
Alternative Flow	N/A		
Exception Flow	N/A		
Frequency of Use	High		
Business Rules	N/A		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-09: Take a Style Quiz		
Created By	Nguyễn Minh Tuệ	Date Created	15/1/2022
Primary Actor	Customer, Guest	Secondary Actor	
Description	Allow actors to take style quiz, system then shows design styles that fit their taste		
Priority	Medium		
Trigger	Actors want to discover recommended designs through short quiz		
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - Device is connected to internet 		
Post-Condition	<ul style="list-style-type: none"> - Recommended designs are displayed based on actors' choices, then let them select 		
Basic Flow	<ol style="list-style-type: none"> 1. Actors click Take Style Quiz label on home page 2. Actors answer a list of short questions 3. The system display the quiz result 4. Actors view and select one in a list of recommended designs based on their choices 		
Alternative Flow	N/A		
Exception Flow	N/A		
Frequency of Use	High		
Business Rules	N/A		
Other Information	N/A		
Assumptions	N/A		

UC ID and Name	UC-10: Create Staff Accounts		
Created By	Nguyễn Minh Tuệ	Date Created	15/1/2022
Primary Actor	Admin	Secondary Actor	
Description	Allow admin to create Staff Accounts		
Priority	High		
Trigger	Actors want to create accounts for Staff		
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - Device is connected to internet 		
Post-Condition	- A new Staff account created		
Basic Flow	<ol style="list-style-type: none"> 1. Admin choose to create a new account for Staff role 2. The system displays the form with information <ul style="list-style-type: none"> • Email • Password • Confirm password 3. Admin type the information for new Staff account 4. New account created for Staff <p>Actors then grant access to the account for Staff</p>		
Alternative Flow	N/A		
Exception Flow	<p>4a. Email has been existed in system</p> <p>Error message: "Email is already used. Try another one" <i>Use case backs to step 3</i></p>		

	<p>4b. Email is inappropriate</p> <p>Error message: “Please input an email form”</p> <p><i>Use case backs to step 3</i></p> <p>4c. Password is not contain at least 8 characters:</p> <p>Error message: “ Password contains at least 8 characters” <i>Use case backs to step 3</i></p> <p>4d. Confirm password is not the same with password</p> <p>Error message box: “Confirm password is not the same with password”</p> <p><i>Use case backs to step 3</i></p> <p>4e. One or more fields is emptied.</p> <p>Error message box: “Field(s) is empty”</p> <p><i>Use case backs to step 3</i></p>
Frequency of Use	High
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-11: Update Staff Accounts		
Created By	Nguyễn Minh Tuệ	Date Created	15/1/2022
Primary Actor	Admin	Secondary Actor	
Description	Allow admins to update Staff accounts		
Priority	Medium		

Trigger	Admins want to update Staff accounts
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - Device is connected to internet
Post-Condition	<ul style="list-style-type: none"> - Staff account updated by Admin
Basic Flow	<ol style="list-style-type: none"> 1. Admins click button “Update” beside the account they choose among the list 2. System displays Staff account information 3. Admins can edit information, or delete account 4. Admins click save 5. The system saved the changes.
Alternative Flow	N/A
Exception Flow	N/A
Frequency of Use	Medium
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-12: Update Customer Accounts		
Created By	Nguyễn Minh Tuệ	Date Created	15/1/2022
Primary Actor	Admin	Secondary Actor	
Description	Allow actors to update Customer Accounts		
Priority	Medium		
Trigger	Actors want to update Customer accounts		
Pre-Condition	<ul style="list-style-type: none"> - Actor has logged in - Device is connected to internet 		

Post-Condition	- Customer accounts updated by Admin
Basic Flow	<p>1. Admins click button “Update” beside the account they choose among the list</p>
	<p>2. System displays Customer account information</p> <p>3. Admins can edit information, or delete account</p> <p>4. Admins click save</p> <p>5. The system saved the changes</p>
Alternative Flow	N/A
Exception Flow	N/A
Frequency of Use	Medium
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-13: Delete Staff Accounts		
Created By	Lê Trần Đăng Khoa	Date Created	15/1/2022
Primary Actor	Admin	Secondary Actor	
Description	The admin delete the staff's information		
Priority	Low		
Trigger	Actor executes the delete command		
Pre-Condition	<ul style="list-style-type: none"> - The staff is existed in the system - The actor must be the admin of the system 		
Post-Condition	- The information of the staff is deleted from the system		

Basic Flow	<ol style="list-style-type: none"> 1. Admins login to the website 2. Admins click the manage staff button 3. The system displays list of staffs 4. The admin clicks “Delete” button 5. The system deleted the staff
Alternative Flow	N/A
Exception Flow	<p>5a. The system failed to delete the staff <i>Use case stops</i></p>
Frequency of Use	Low
Business Rules	BR-08
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-14: Delete Customer Accounts		
Created By	Lê Trần Đăng Khoa	Date Created	15/1/2022
Primary Actor	Admin	Secondary Actor	
Description	The admin delete the customer's information		
Priority	Low		
Trigger	Actor executes the delete command		
Pre-Condition	<ul style="list-style-type: none"> - The customer is existed in the system - The actor must be the admin of the system 		
Post-Condition	<ul style="list-style-type: none"> - The information of customer delete from the system 		

Basic Flow	<ol style="list-style-type: none"> 1. Admins login to the website 2. Admins click the manage customer button 3. The system displays list of customers 4. The admin clicks “Delete” button 5. The system deleted the customer
Alternative Flow	N/A
Exception Flow	<p>5a. The system failed to delete the customer <i>Use case stops</i></p>
Frequency of Use	Low
Business Rules	BR-08
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-15: Create Products		
Created By	Lê Trần Đăng Khoa	Date Created	15/1/2022
Primary Actor	Staff	Secondary Actor	
Description	The staff creates a new product		
Priority	High		
Trigger	Actor executes the create product command		
Pre-Condition	- The actor must be in staff position		
Post-Condition	- A new product is added into the system		

Basic Flow	<ol style="list-style-type: none"> 1. Staffs login to the website 2. Staffs click Manage Products button 3. Staffs click Add New Product button 4. The system displays a new product form 5. Staffs fill in the form 6. Staffs finish the process 7. System successfully added a new product
Alternative Flow	N/A
Exception Flow	<p>7a. System failed to add the product <i>Use case stops</i></p>
Frequency of Use	High
Business Rules	BR-06, BR-10
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-16: Update Products		
Created By	Lê Trần Đăng Khoa	Date Created	15/1/2022
Primary Actor	Staff	Secondary Actor	
Description	The staff changes product's information		
Priority	Medium		
Trigger	Actor executes the update product command		
Pre-Condition	<ul style="list-style-type: none"> - The actor must be in staff position - The products must be existed in the system 		
Post-Condition	- The product's information is changed in the system		

Basic Flow	<ol style="list-style-type: none"> 1. Staff clicks “Login” button 2. Staff clicks “Manage Products” button 3. The system displays the list of products 4. Staff clicks “Update” button of 1 product 5. The system displays that product’s details 6. Staff edit the product’s information 7. Staff clicks “Save” button 8. The system successfully updated the product
Alternative Flow	N/A
Exception Flow	<p>8a. System failed to update the product</p> <p><i>Use case stops</i></p>
Frequency of Use	High
Business Rules	BR-06
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-17: Delete Products		
Created By	Lê Trần Đăng Khoa	Date Created	15/1/2022
Primary Actor	Staff	Secondary Actor	
Description	The staff delete product’s information		
Priority	Low		
Trigger	Actor executes the delete product command		
Pre-Condition	<ul style="list-style-type: none"> - The actor must be in staff position 		
	<ul style="list-style-type: none"> - The products must be existed in the system 		
Post-Condition	<ul style="list-style-type: none"> - The product’s information is deleted from the system 		

Basic Flow	<ol style="list-style-type: none"> 1. Staff clicks “Login” button 2. Staff clicks “Manage Products” button 3. The system displays the list of products 4. Staff clicks “Delete” button of 1 product 5. The system successfully deleted the product
Alternative Flow	N/A
Exception Flow	<p>5a. System failed to delete the product</p> <p><i>Use case stops</i></p>
Frequency of Use	Low
Business Rules	BR-06
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-18: Update Bill Status		
Created By	Lê Trần Đăng Khoa	Date Created	15/1/2022
Primary Actor	Staff	Secondary Actor	
Description	The staff changes bill's information		
Priority	High		
Trigger	Actor executes the update bill command		
Pre-Condition	<ul style="list-style-type: none"> - The actor must be in staff position - The bill must be existed in the system 		
Post-Condition	<ul style="list-style-type: none"> - The bill's status is changed in the system 		
Basic Flow	<ol style="list-style-type: none"> 1. Staff clicks “Login” button 2. Staff clicks “Manage Bill” button 		

	<p>3. The system displays the list of bills</p> <p>4. Staff clicks to view a bill's details</p> <p>5. Staff changes the bill's status</p> <p>6. The system successfully changed the status</p>
Alternative Flow	N/A
Exception Flow	<p>6a. System failed to update the status</p> <p><i>Use case stops</i></p>
Frequency of Use	High
Business Rules	BR-06
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-19: Create Design Idea		
Created By	Hồ Lê Thanh Anh	Date Created	15/1/2022
Primary Actor	Staff	Secondary Actor	
Description	As a staff, I want to create more design ideas for the customers		
Priority	Medium		
Trigger	Staffs want/get ordered to create a new design idea		
Pre-Condition	<ul style="list-style-type: none"> - Staff accounts have been authorized - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - A new design idea has been created - Customers can view and choose the newly created design idea 		

Basic Flow	<p>1. Staff members access the PCID website</p> <p>2. Staff members successfully logged in the system</p> <p>3. Staff members choose the function to add more design idea</p> <p>4. Staff members write the idea's description and add products from the</p>
	<p>list to the idea</p> <p>5. Staff members finish the process</p> <p>6. The system successfully created a new design idea for the website</p>
Alternative Flow	<p>4a. Staff members write the idea's description and add products from the sorted product list to the idea</p> <p><i>Use case continues step 5</i></p>
Exception Flow	<p>2b. Staff members unsuccessfully logged in the system</p> <p>2b1. Staff members cancel the log in process</p> <p><i>Use case stops</i></p> <p>6c. The system fails to create a new design idea</p> <p><i>Use case stops</i></p>
Frequency of Use	Medium
Business Rules	BR-10
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-20: Update Design Idea		
Created By	Hồ Lê Thé Anh	Date Created	15/1/2022
Primary Actor	Staff	Secondary Actor	
Description	As a staff, I want to edit the existing design ideas		

Priority	Medium
Trigger	Staffs want/get ordered to edit an existing design idea due to mistakes
Pre-Condition	<ul style="list-style-type: none"> - Staff accounts have already created - Staff accounts have been authorized - An Internet connection is available
Post-Condition	<ul style="list-style-type: none"> - The design idea has been updated - Customers can view the design idea after updated
Basic Flow	<ol style="list-style-type: none"> 1. Staff members access the PCID website 2. Staff members successfully logged in the system 3. Staff members choose the function to update a design idea 4. Staff members update the idea's description the products 5. Staff members finish the process 6. The system successfully updated that design idea for the website
Alternative Flow	<p>4a. Staff members only update the idea's description <i>Use case continues step 5</i></p> <p>4b. Staff members only update the products in the idea <i>Use case continues step 5</i></p>
Exception Flow	<p>2c. Staff members failed to log in the system 2c1. Staff members cancel the log in process <i>Use case stops</i></p> <p>6d. The system fails to update the design idea <i>Use case stops</i></p>
Frequency of Use	Medium
Business Rules	BR-10

Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-21: Delete Design Idea		
Created By	Hồ Lê Thé Anh	Date Created	15/1/2022
Primary Actor	Staff	Secondary Actor	
Description	As a staff, I want to delete the existing design ideas		
Priority	Low		
Trigger	Staffs want/get ordered to delete an existing design idea due to mistakes or little use		
Pre-Condition	<ul style="list-style-type: none"> - Staff accounts have already created - Staff accounts have been authorized - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - The design idea has been deleted - Customers cannot view the design idea after deleted 		

Basic Flow	<ol style="list-style-type: none"> 1. Staff members access the PCID website 2. Staff members successfully logged in the system 3. Staff members choose the function to delete a design idea 4. Staff members delete the design idea 5. Staff members finish the process 6. The system successfully deleted that design idea
Alternative Flow	N/A
Exception Flow	<p>2a. Staff members failed to log in the system</p> <p>2a1. Staff members cancel the log in process</p> <p><i>Use case stops</i></p>
	<p>6b. The system fails to delete the design idea</p> <p><i>Use case stops</i></p>
Frequency of Use	Low
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-22: Add Products to Shopping Cart		
Created By	Hồ Lê Thé Anh	Date Created	15/1/2022
Primary Actor	Customer	Secondary Actor	
Description	As a customer, I want to add more products to the shopping cart		
Priority	High		
Trigger	Customers want to buy/interested in a/some product(s)		

Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have already created - Customer accounts have been authorized - An Internet connection is available
Post-Condition	<ul style="list-style-type: none"> - The products have been added to the shopping cart
Basic Flow	<ol style="list-style-type: none"> 1. Customers access the PCID website 2. Customers successfully logged in the system 3. Customers go to the product list 4. Customers add a product into the shopping cart 5. The system successfully added the product to the shopping cart
Alternative Flow	<ol style="list-style-type: none"> 3a. Customers go to the design ideas page 3a1. Customers choose 1 design idea 4a1. Customers add the products from the design idea to the shopping cart
	<p><i>Use case continues step 5</i></p> <p>3b. Customers go to the product list and click on a product's full details</p> <p><i>Use case continues step 4</i></p>
Exception Flow	<ol style="list-style-type: none"> 2c. Customers failed to log in the system 2c1. Customers cancel the log in process <p><i>Use case stops</i></p> <ol style="list-style-type: none"> 5d. The system fails to add the products <p><i>Use case stops</i></p>
Frequency of Use	High
Business Rules	N/A
Other Information	N/A

Assumptions	N/A
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UC ID and Name	UC-23: Update Products in Shopping Cart		
Created By	Hồ Lê Thé Anh	Date Created	15/1/2022
Primary Actor	Customer	Secondary Actor	
Description	As a customer, I want to update the products' quantity in the shopping cart		
Priority	High		
Trigger	Customers want to adjust the quantity of a product that is already existed in the shopping cart		
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have been created - Customer accounts have been authorized - An internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - The products' quantity has been updated in the shopping cart 		
Basic Flow	<ol style="list-style-type: none"> 1. Customers access the PCID website 2. Customers successfully logged in the system 3. Customers go to the shopping cart 4. Customers increase the quantity of a product in the shopping cart 5. The system successfully updated the product's quantity in the shopping cart 		
Alternative Flow	4a. Customers decrease the quantity of a product in the shopping cart <i>Use case continues step 5</i>		

Exception Flow	<p>2b. Customers failed to log in the system</p> <p>2b1. Customers cancel the log in process</p> <p><i>Use case stops</i></p> <p>5c. The system fails to update the products</p> <p><i>Use case stops</i></p>
Frequency of Use	High
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-24: Delete Products in Shopping Cart		
Created By	Hồ Lê Thế Anh	Date Created	15/1/2022
Primary Actor	Customer	Secondary Actor	
Description	As a customer, I want to delete the products in the shopping cart		
Priority	High		
Trigger	Customers want to delete a product in the shopping cart		
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have already created 		
	<ul style="list-style-type: none"> - Customer accounts have been authorized - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - The products have been deleted in the shopping cart 		

Basic Flow	<ol style="list-style-type: none"> 1. Customers access the PCID website 2. Customers successfully logged in the system 3. Customers go to the shopping cart 4. Customers delete a product in the shopping cart 5. The system successfully removed the product in the shopping cart
Alternative Flow	N/A
Exception Flow	<p>2b. Customers failed to log in the system</p> <p>2b1. Customers cancel the log in process <i>Use case stops</i></p> <p>5c. The system fails to remove the products <i>Use case stops</i></p>
Frequency of Use	High
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-25: View Products in Shopping Cart		
Created By	Nguyễn Anh Bình Minh	Date Created	15/1/2022
Primary Actor	Customer	Secondary Actor	
Description	As a User, I want to view products i choice in cart		
Priority	Medium		
Trigger	Customers want/get view products in cart		
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have been authorized - An Internet connection is available 		

Post-Condition	<ul style="list-style-type: none"> - Customer picked up products - Customers can view products in cart
Basic Flow	<ol style="list-style-type: none"> 1. Customer members access the PCID website 2. Customer members successfully logged in the system 3. Customer members choose shopping page 4. Customer members choose view products in cart 5. The system successfully show the customer's products in the shopping cart
Alternative Flow	N/A
Exception Flow	<p>2a. Customer members unsuccessfully logged in the system 2a1. Customer members cancel the log in process <i>Use case stops</i></p> <p>5b. The system fails show products in the shopping cart Error message: "An Internet connection is not available" <i>Use case stops</i></p>
Frequency of Use	Medium
Business Rules	BR-10
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-26: Give Feedback		
Created By	Nguyễn Anh Bình Minh	Date Created	15/1/2022
Primary Actor	Customer	Secondary Actor	
Description	As a Customer, I want to give feedback about product or use the system		

Priority	Medium
Trigger	Customers want/get gave feedback to admin
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have already created - Customer accounts have been authorized - An Internet connection is available
Post-Condition	Admin received feedback
Basic Flow	<ol style="list-style-type: none"> 1. Customer members access the PCID website 2. Customer members successfully logged in the system 3. Customer members choose give feedback page 4. Customer members write feedback 5. Customer members finish the process 6. The system successfully sent the feedback
Alternative Flow	N/A
Exception Flow	<p>2a. Customer members failed to log in the system 2a1. Customer members cancel the log in process <i>Use case stops</i></p> <p>4b. Customer members can't load feedback page Error message: "An Internet connection is not available" <i>Use case stops</i></p>
Frequency of Use	Medium
Business Rules	BR-10
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-27: Make Payment		
Created By	Nguyễn Anh Bình Minh	Date Created	15/1/2022

Primary Actor	Customer	Secondary Actor	
Description	As a Customer, I want to pay my products in shopping cart		
Priority	High		
Trigger	Customers want/get pay my products in shopping cart		
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have already created - Customer accounts have been authorized - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - The product was pay successfully - Customers received notification of successful payment 		
Basic Flow	<ol style="list-style-type: none"> 1. Customer members access the PCID website 2. Customer members successfully logged in the system 3. Customer choose the shopping cart 4. Customer members choose payment 5. Customer members choose how to pay 6. Customer members finish the process 7. The system sent notification of successful payment 		
Alternative Flow	N/A		
Exception Flow	<p>2a. Customer members failed to log in the system</p> <p>2a1. Customer members cancel the log in process</p> <p><i>Use case stops</i></p> <p>5b. The system fails to approved payment</p> <p><i>Error message: "try again with different"</i></p> <p><i>Use case stops</i></p>		

Frequency of Use	High
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-28: View Bills History		
Created By	Nguyễn Anh Bình Minh	Date Created	15/1/2022
Primary Actor	Customer	Secondary Actor	
Description	As a customer, I want to view bills history		
Priority	High		
Trigger	Customers want to view bills history		
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have already created - Customer accounts have been authorized - An Internet connection is available 		
Post-Condition	<ul style="list-style-type: none"> - Customer bought a/some products or not 		
Basic Flow	<ol style="list-style-type: none"> 1. Customers access the PCID website 2. Customers successfully logged in the system 3. Customers go to the View information of bill transaction page 4. The system successfully shows information of bill transaction 		

Alternative Flow	<p>3a. Customers go to View information of bill transaction</p> <p>3a1. Customers can see bills history</p> <p><i>Use case continues step 4</i></p> <p>3b. Customers go to View information of bill transaction</p>
	<p>3b1. Customers can not see bills history</p> <p><i>Message: "the user has not purchased"</i></p>
Exception Flow	<p>2c. Customers failed to log in the system</p> <p>2c1. Customers cancel the log in process</p> <p><i>Use case stops</i></p> <p>4. The system fails to load bills history</p> <p><i>Error message: "try again"</i></p> <p><i>Use case stops</i></p>
Frequency of Use	High
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-29: Cancel Bill		
Created By	Nguyễn Anh Bình Minh	Date Created	15/1/2022
Primary Actor	Customer	Secondary Actor	
Description	As a customer, I want to cancel bills		
Priority	High		

Trigger	Customers want to cancel bill
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts have been created - Customer accounts have been authorized - An internet connection is available
Post-Condition	- User want to cancel the products' quantity has been updated in the payment
Basic Flow	<ol style="list-style-type: none"> 1. Customers access the PCID website 2. Customers successfully logged in the system
	<ol style="list-style-type: none"> 3. Customers go to the Payment 4. Customers choose cancel buttons on payment page 5. The system successfully cancels the bill
Alternative Flow	N/A
Exception Flow	<ol style="list-style-type: none"> 2a. Customers failed to log in the system 2a1. Customers cancel the log in process <p><i>Use case stops</i></p>
Frequency of Use	High
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-30: Receive Feedback		
Created By	Nguyễn Anh Bình Minh	Date Created	15/1/2022
Primary Actor	Admin	Secondary Actor	
Description	Admins view feedback from user		

Priority	Medium
Trigger	Admins want to view feedback from user
Pre-Condition	<ul style="list-style-type: none"> - Customer accounts sent feedback - Server connection is available
Post-Condition	<ul style="list-style-type: none"> - The feedback show successfully
Basic Flow	<ol style="list-style-type: none"> 1. Admin go to the system 2. Admin go to Receive feedback from customer page 3. The system successfully show all feedback from users
Alternative Flow	N/A
Exception Flow	<p>3a. The system fails to show feedback <i>Error message: "fail to show feedback"</i> <i>Use case stops</i></p>
Frequency of Use	Medium
Business Rules	N/A
Other Information	N/A
Assumptions	N/A

UC ID and Name	UC-31: Logout		
Created By	Hồ Lê Thé Anh	Date Created	15/1/2022
Primary Actor	Admin, Staff, Customer	Secondary Actor	
Description	As a user, I want to logout my account from the website		
Priority	High		

Trigger	Users want to logout of the website after they have done their works at that time
Pre-Condition	<ul style="list-style-type: none"> - User accounts have already created - User accounts have been authorized - Users have already logged in - An Internet connection is available
Post-Condition	<ul style="list-style-type: none"> - Users can view the website as a guest member
Basic Flow	<ol style="list-style-type: none"> 1. Users access the PCID website 2. Users successfully logged in the system as an Admin 3. Users process to do their works in the website 4. Users press the logout button
	5. The system successfully logged out the users from the website
Alternative Flow	<p>2a. Users successfully logged in the system as a Staff <i>Use case continues step 3</i></p> <p>2b. Users successfully logged in the system as a Customer <i>Use case continues step 3</i></p>
Exception Flow	<p>2c. Users failed to log in the system 2c1. Users cancel the log in process <i>Use case stops</i></p> <p>4d. Users close the browser <i>Use case stops</i></p>
Frequency of Use	High
Business Rules	N/A

Other Information	N/A
Assumptions	N/A

3. Functional Requirements:

3.1. System Functional Overview:

a. Screen Flow:



Graph 6 – Screen Flow

b. Screen Details:

ID	Screen	Description
1	Homepage	Main website home page of a website. The term can also refer to one or more pages always shown on the website when accessed to it
2	Login	The login page is the page user use to log in, consisting of username and password or another method to log in
3	Style Quiz	Suggest the information for users. The suggestion is random style of the decoration
4	Take the Quiz	Give the guess some sample designed by the artists. Those all are the random givens
5	Style Result	The final of the quiz, the closest idea with the guess
6	Do Quiz Again	Suggest the information for users. The suggestion is random style of the decoration
7	Design Ideas	The function of the system which let designers build up things. All of design products are saved in their "Work Space"
8	Category rooms	The different kinds of rooms based on weather style, the local style or the random freestyle
9	Room Styles	Suggest the style of rooms to the users
10	Show Rooms	The department of showing room style and showing products
11	Room detail & product contained	Suggest the information about rooms and products
12	Cart	Display item's information for users to read
13	Check-out	The last step of payment. System confirms to users about the bill and the products

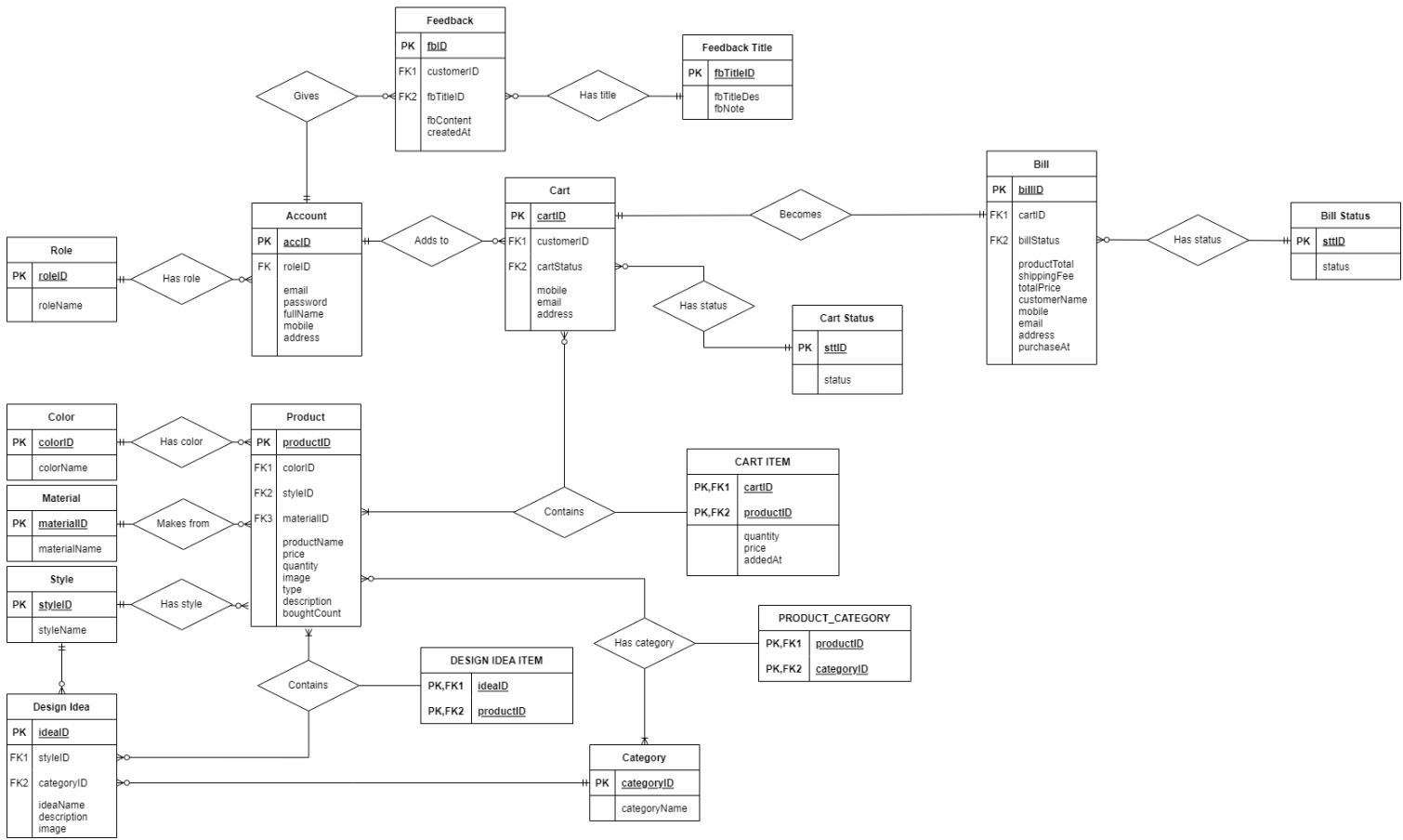
14	Bill	The information of each transactions
15	Shop	The store where shows all the products
16	Product List	A list of product which are sorted by category
17	Product Detail Page	A page shows the product's information
18	Manage Account	A page shows the account's information
19	Product	A page shows all of the products which are sorted into many categories
20	Feedback	A page receives information from customers
21	Account List	A list of the account's information
22	Product List	A list of the product's information
23	Bill List	A list of the bill's information
24	Feedback List	A list of the feedback's information
25	Account	Go to setting account
26	Manage Product	A page shows all the product's information
27	Manage Design Idea	A page shows all the design's information
28	Profile	Go to setting profile
29	Design List	A list of the design's information
30	Give Feedback	Display a text for customers to send their wishes
31	Ordered Bill	A page shows all the ordered bill's information
32	Logout	Exit the account from the website

c. Screen Authorization:

Screen	Admin	User	Guest
Home Page	X	X	X

Login	X	X	X
Register			X
Style Quiz	X	X	
Take the Quiz	X	X	
Style Result	X	X	
Do quiz again	X	X	
Design Ideas	X	X	X
Category rooms	X	X	
Room Styles	X	X	
Show rooms	X	X	X
Room detail & product contained	X	X	
Cart		X	
Check-out		X	
Bill		X	
Shop		X	
Product list	X	X	X
Product detail page	X	X	X
Manage account	X		
Product	X	X	X
Feedback		X	
Account list	X		
Product list		X	
Bill list		X	
Feedback list	X		
Account	X		
Profile	X	X	
Log out	X	X	

d. Entity-Relationship Diagram:



Graph 7 – E-R Diagram

Entities List:

No	Entity	Description
1	Account	Contains the users' information
2	Product	Contains the products' information
3	Role	Contains the roles of the website
4	Category	Contains the categories

5	Color	Contains the colors
6	Style	Contains the styles
7	Material	Contains the materials
8	Product – Category	Contains list of products and their categories
9	Cart	Contains list of shopping carts
10	Cart Item	Contains the carts' items
11	Bill	Contains the bills' information
12	Cart Status	Contains the shopping carts' status
13	Bill Status	Contains the bills' status
14	Design Idea	Contains the design ideas
15	Design Idea Item	Contains list of items of the design ideas
16	Feedback	Contains the feedbacks from the users
17	Feedback Title	Contains the feedbacks' titles

3.2. Mock-up Design:

The mock-up consists of two main sections: a table of feedback entries and a detailed view of a single entry.

Table of Feedback Entries (Top Section):

- Header:** Full Name, Date Created, Title, Address, Manage.
- Data:**

Jacob Jones	Thu, 9/2/19, 4:43:41 PM	Sofa	6 Golf Course Alley	View Detail	Delete
Dianne Russell	Wed, 6/12/19, 6:03:21 PM	Chair	639 Corben Circle	View Detail	Delete
Robert Fox	Thu, 8/20/20, 3:44:35 PM	Attitude	657 Lukken Court	View Detail	Delete
Kristin Watson	Mon, 5/25/19, 2:53:37 PM	Desk	8419 Fremont Hill	View Detail	Delete
- Buttons:** Search field, Search, Previous, Next, Page 1/1.

Feedback Detail (Bottom Section):

- Customer Information:** Customer Name (Jacob Jones), Phone Number (077 6764 8570), Address (6 Golf Course Alley), Time Purchased (Thu, 9/2/19, 4:43:41 PM).
- Feedback Content:** Title (Sofa), Content (Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec,).

Figure 1 – Admin Feedback

No	Name	Type	Description
1	Table list feedback	Table	Show all feedback customers
2	View Detail	Button	Show more detail
3	Delete	Button	Delete feedback
4	Customer Name	TextBox	Show name
5	Phone Number	TextBox	Show number
6	Address	TextBox	Show address
7	Time Purchased	TextBox	Show time purchased
9	Title	TextBox	Show title feedback
10	Content	TextBox	Show content feedback



Manage Account Feedback Bill



Manage Bill

Search field

Search

Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

< 1/1 >

Bill Detail

Cart ID	Staff	3	Bill Status	Status	9
Customer Name	ABC	4	Shipping Fee	\$\$\$	10
Phone Number	(307) 555-0133	5	Total	\$\$\$	11
Gmail	willie.jennings@example.com	6			
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486	7			
Time Purchased	Tue 02 Jun, 2020 09:12 am	8			
	<input type="button" value="Save"/>	12			

Figure 2 – Admin Manage Bill

No	Name	Type	Description
1	Table list bills	Table	Show all bills sold
2	View Detail	Button	Show more detail
3	Cart ID	TextBox	Show staff id sold
4	Customer Name	TextBox	Show name
5	Phone Number	TextBox	Show number
6	Gmail	TextBox	Show email
7	Address	TextBox	Show address
8	Time Purchased	TextBox	Show time purchased

9	Bill Status	TextBox	Show status
10	Shipping fee	TextBox	Show ship cost
11	Total	TextBox	Show total money must be pay
12	Save	Button	Save all

The screenshot shows two main sections: 'Manage Account' and 'Create Staff Account'.

Manage Account:

- 1:** Title 'Manage Account'.
- 2:** Search field.
- 3:** Search button.
- 4:** Table of account details:

ID	Role	Full Name	Email	Phone Number	Address	Manage
1	Staff	Robert Fox	xterrii@gmail.com	079 8761 9681	4 Cody Street	View Detail Delete
2	Customer	Ralph Edwards	dric@gmail.com	077 6764 8570	3 Becker Hill	View Detail Delete
3	Customer	Theresa Webb	rrian@yandex.ru	078 8502 2342	4 Cody Alley	View Detail Delete
4	Customer	Darrell Steward	ustil@mail.ru	070 3397 6621	1 Vernon Point	View Detail Delete
5	Staff	Jenny Wilson	cido@gmail.com	077 6140 9077	46 Scoville Plaza	View Detail Delete

- 5:** 'Delete' link for the first account.
- 6:** 'Delete' link for the second account.
- 7:** Previous page button.
- 8:** Page number '1/1'.
- 9:** Next page button.

Create Staff Account:

- 10:** Title 'Create Staff Account'.
- 12:** Role dropdown selected 'Staff'.
- 13:** Full Name input 'ABC'.
- 14:** Phone Number input '(307) 555-0133'.
- 15:** Gmail input 'willie.jennings@example.com'.
- 16:** Address input '2972 Westheimer Rd. Santa Ana, Illinois 85486'.
- 17:** Password input 'Staff'.
- 18:** 'Add Staff' button.

Figure 3 – Admin Manage Account

No	Name	Type	Description
1	Manager Account	Text	Show name page

2	Search Field	TextBox	Search info
3	Search	Button	Click to show result
4	Table list Account	TextBox	Show all account created
5	View Detail	Button	Show more detail
6	Delete	Button	Delete account
7	Back	Button	Forward page
8	Show page number	Text	Show number of page
9	Next	Button	Next page
10	Create Staff Account	Text	Show name page
12	Role	TextBox	Show role of account
13	FullName	TextBox	Show name
14	Phone Number	TextBox	Show number
15	Gmail	TextBox	Show email
16	Address	TextBox	Show address
17	Password	TextBox	Show Password
18	Add Staff	Button	Save a new account for staff

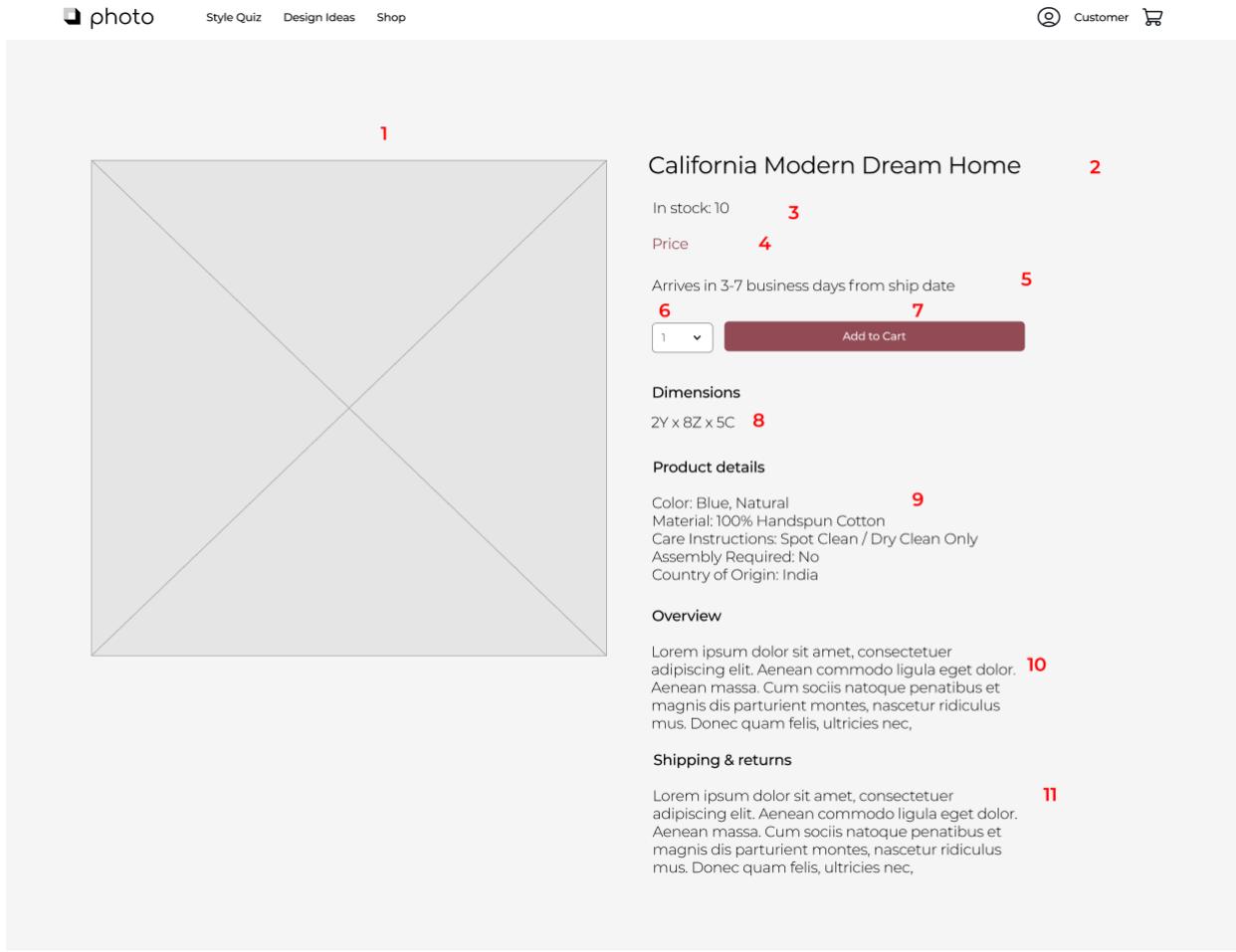


Figure 4 – Customer product detail

No	Name	Type	Description
1	Picture Area	Image	Add picture
2	California Modern Dream Home	Text	Show name product
3	In Stock	Text	Show numbers product in shop
4	Price	Text	Show money
5	Shipping time	Text	Show how long shipping
6	Quantity	TextBox	Show how many products choice
7	Add to cart	Button	Add product to cart
8	Dimensions	Text	Show size of products
9	Product detail	Text	Show product information
10	Overview	Text	Show product story
11	Shipping & Returns	Text	Show shipping information



Style Quiz Design Ideas Shop



Customer



Shop

xxxx items

1

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13

Search field

Search

All

2

Living Room

Bed Room

Dining Room

Kid's Room

Nursery

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Color: All

Sort by:



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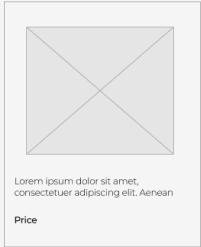
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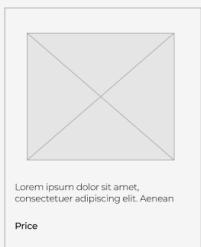
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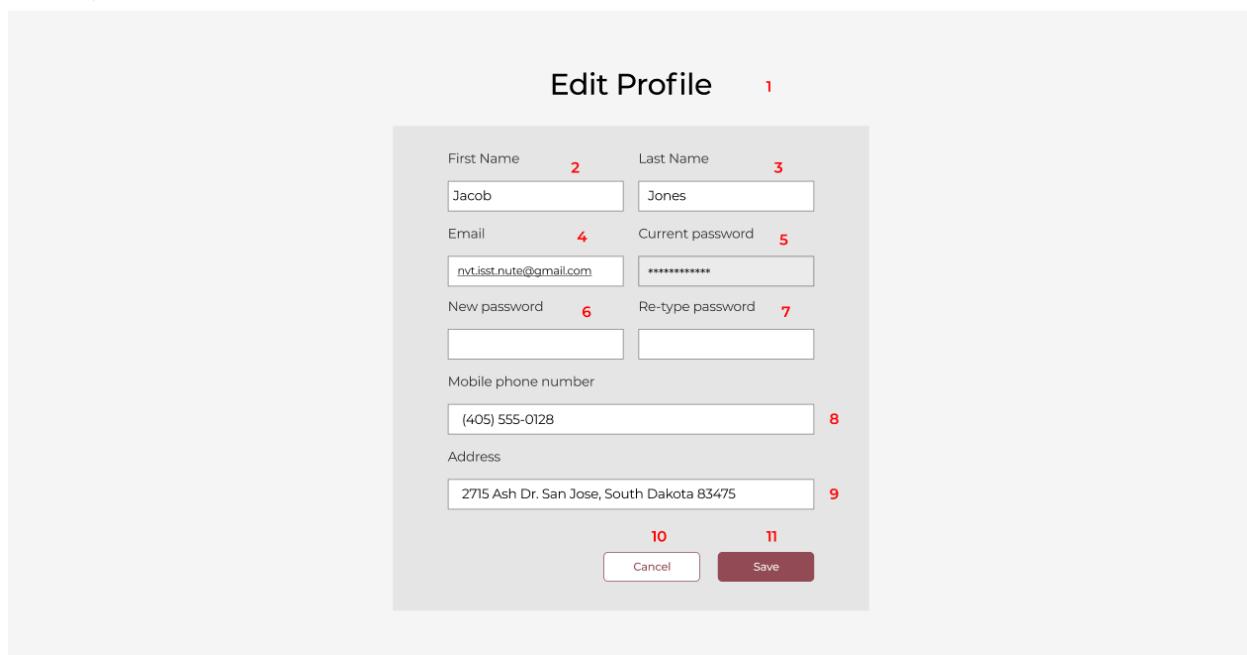
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Figure 5 – Customer Shop

No	Name	Type	Description
1	Shop	Text	Show name page
2	All	Button	Click to show all product (remove sort or filter state)
3	Living Room	Button	Click to show all product about living room
4	Bed Room	Button	Click to show all product about bed room
5	Dining Room	Button	Click to show all product about dining room
6	Kid's Room	Button	Click to show all product about kid's room
7	Nursery	Button	Click to show all product about nursery room
8	Color	Dropdown	Show all product with color choice
9	Sort by	Dropdown	Show product with a-z,...
10	Picture area	Image	Add picture of product
11	Detail	Text	Show few detail of product
12	Price	Text	Show price



The screenshot shows a 'Edit Profile' page with the following numbered elements:

- 1: 'Edit Profile' button at the top right.
- 2: 'First Name' field containing 'Jacob'.
- 3: 'Last Name' field containing 'Jones'.
- 4: 'Email' field containing 'nvt.list.nute@gmail.com'.
- 5: 'Current password' field showing masked text.
- 6: 'New password' field.
- 7: 'Re-type password' field.
- 8: 'Mobile phone number' field containing '(405) 555-0128'.
- 9: 'Address' field containing '2715 Ash Dr. San Jose, South Dakota 83475'.
- 10: 'Cancel' button.
- 11: 'Save' button.

Figure 6 – Customer Profile Edit

No	Name	Type	Description
1	Edit Profile	Text	Name of Page
2	First Name	TextBox	Fill Name into box
3	Last Name	TextBox	Fill Name into box
4	Email	TextBox	Fill email into box
5	Current password	TextBox	Show current password
6	New password	TextBox	Add new password
7	Re-type password	TextBox	Re-type password
8	Mobile phone number	TextBox	Fill phone number
9	Address	TextBox	Fill address
10	Cancel	Button	Cancel all not change anything. Back to profile page
11	Save	Button	Save new profile

The screenshot shows a 'Profile Detail' page with the following fields and their corresponding numbers:

- First Name: Staff (labeled 3)
- Last Name: ABC (labeled 4)
- Phone Number: (307) 555-0133 (labeled 5)
- Address: 2972 Westheimer Rd, Santa Ana, Illinois 85486 (labeled 6)
- Email: willie.jennings@example.com (labeled 7)
- Password: ***** (labeled 8)

An 'Edit' button at the bottom is labeled 9.

Figure 7 – Customer Profile

No	Name	Type	Description
1	Profile Detail	Text	Name of page
2	First Name	TextBox	Show first name
3	Last Name	TextBox	Show last name
4	Phone number	TextBox	Show phone number
5	Address	TextBox	Show address
6	Email	TextBox	Show email
7	Password	TextBox	Show password
8	Edit	Button	Click to edit

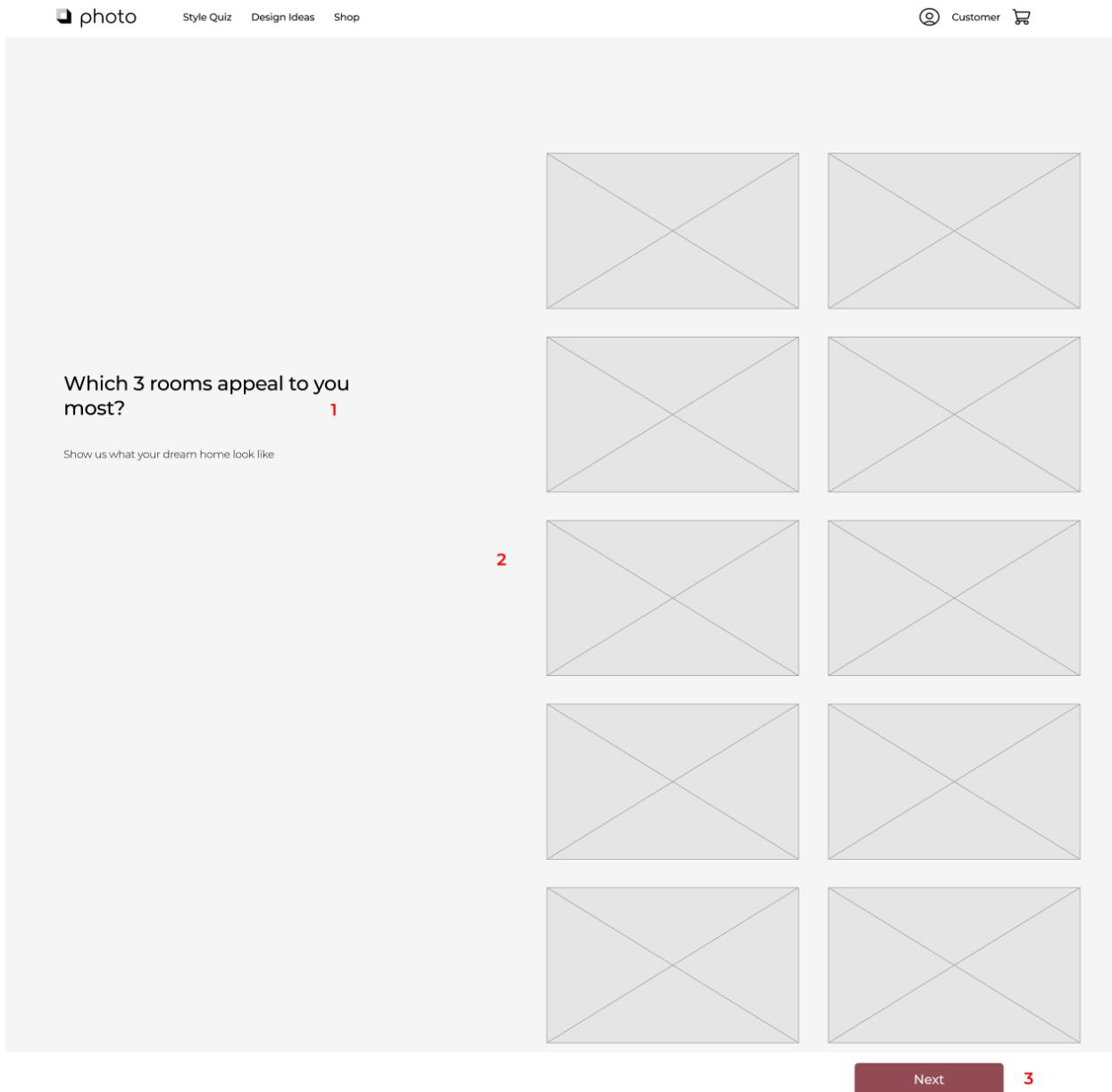


Figure 8 – Customer Style Quiz

No	Name	Type	Description
1	Title	Text	Question for customers help system show same like favourite
2	Picture area	Button	Click products

3	Next	Button	Continue setup account
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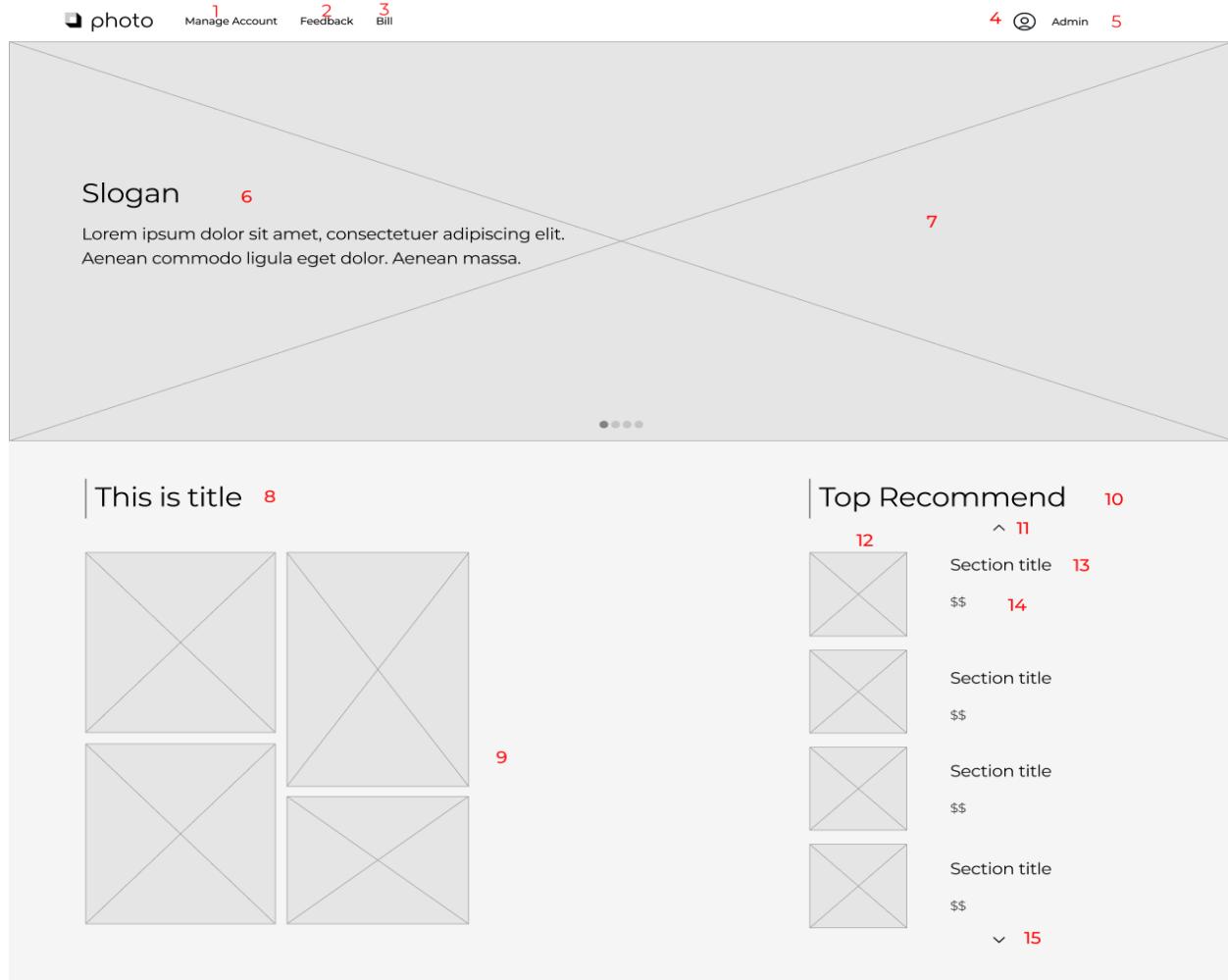


Figure 9 – Log in with Admin Role

No	Name	Type	Description
1	Manager Account	Button	Click to show manager account page
2	Feedback	Button	Click to show admin feedback page
3	Bill	Button	Click to show admin manage bill
4	Avatar	Logo	Avatar
5	Admin Name	Text	Show name of admin account
6	Slogan	Text	Page slogan

7	Picture area	Image	Show picture
8	Tilte	Text	Title
9	Picture area	Image	Show picture
10	Top Recommend	Text	Title
11	Up	Button	Click to scroll up
12	Picture area	Image	Show picture
13	Section tilte	Text	Show tilte
14	Price	Text	Show price
15	Down	Button	Click to scroll down

1 photo 2 Style Quiz 3 Design Ideas 4 Shop

5 Customer 6 Profile 7 Order history 8 Log out

9 What Is My Interior Design Style?

10 Take the Quiz

11

12 Our Approach:
One Style Doesn't Fit All

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Figure 10 – Log in with customer role

No	Name	Type	Description
1	Style Quiz	Button	Click to show style quiz page
2	Design ideas	Button	Click to show design ideas page

3	Shop	Button	Click to show shop page
4	Avatar	Logo	Show logo
5	Name	Button	Show name of account on button show detail
6	Profile	Dropdown	Click to show Profile page
7	Order history	Dropdown	Click to show Order history page
8	Logout	Dropdown	Logout account
9	Tilte	Text	Show tilte
10	Take a quiz	Button	Click to show style quiz page
11	Picture area	Image	Show picture
12	Tilte	Text	Show tilte

The screenshot shows a shopping cart interface with various UI elements and associated numbers:

- Your Shopping Cart** (Text) 1
- (X)** (Close button) 2
- Your Order** (Section header)
- Item** (Column header)
- Quantity** (Column header)
- Price** (Column header)
- 3** (Image placeholder)
- 4** (Text: Taka Cotton Throw Pillow, Size 20 x 20 inches)
- 5** (Dropdown menu showing '1')
- 6** (Delete button)
- 7** (Text: 7 \$0.00)
- Subtotal** (Text: 16 \$0.00)
- Estimate Shipping** (Text: 17 \$9.95)
- Estimated Total** (Text: 18 \$9.95)
- Shipping Address** (Section header) 8
- Name:** (Text: Name) 9
- Phone Number:** (Text: Phone Number) 10
- Gmail:** (Text: Gmail) 11
- Address:** (Text: Address) 12
- Customer Name:** (Text: Customer Name) 9
- (123)-456-789** (Text: Phone Number) 10
- John@gmail.com** (Text: Gmail) 11
- 6391 Delaware 10299** (Text: Address) 12
- Shipping Address** (Text: Shipping Address) 13
- Payment Method:** (Text: Payment Method) 14
- Checkout** (Button) 15

Figure 11 – Customer Shopping Cart

No	Name	Type	Description
1	Your Shopping Cart	Text	The title of the Your Shopping Cart page
2	Exit	Button	Close shopping cart
3	Item Image	Image	The picture of the item
4	Name and size	Text	The name and the size of the item
5	Quantity	Dropdown	The number of the item
6	Delete	Button	Delete product
7	Price	Number	The price of the item

8	Shipping Address	Text	The title of the Shipping Address component
9	Customer Name	Text	The name of the customer
10	Phone number	Number	The phone number of the customer
11	Gmail	Email	The email of the customer
12	Address	Text	The address of the customer
13	Shipping Address	Text	The title of Shipping Address component
14	Payment Method	Text	The kind of payment
15	Checkout	Button	Execute the payment command
16	Subtotal	Number	Price of all product
17	Estimate Shipping	Number	Shipping fee
18	Estimate Total	Number	Total price of product + shipping fee

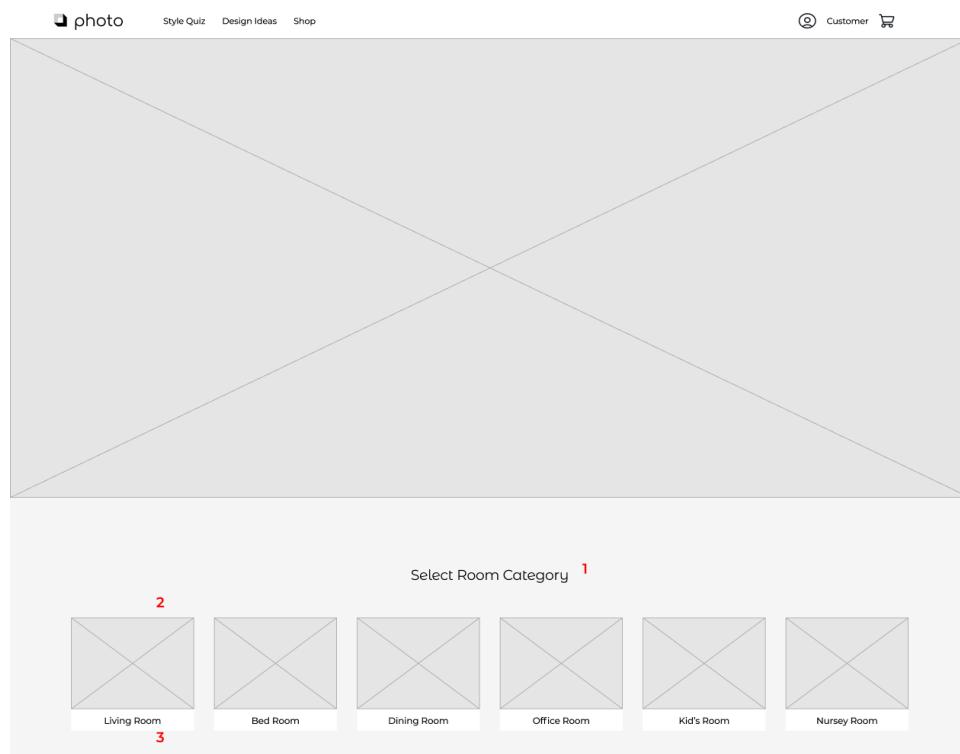


Figure 12 – Customer Design Ideas Category

No	Name	Type	Description
1	Select Room Category	Text	The title of the Select Room Category
2	Product image	Image	The picture of the room

3	Product name	Text	The name of the room
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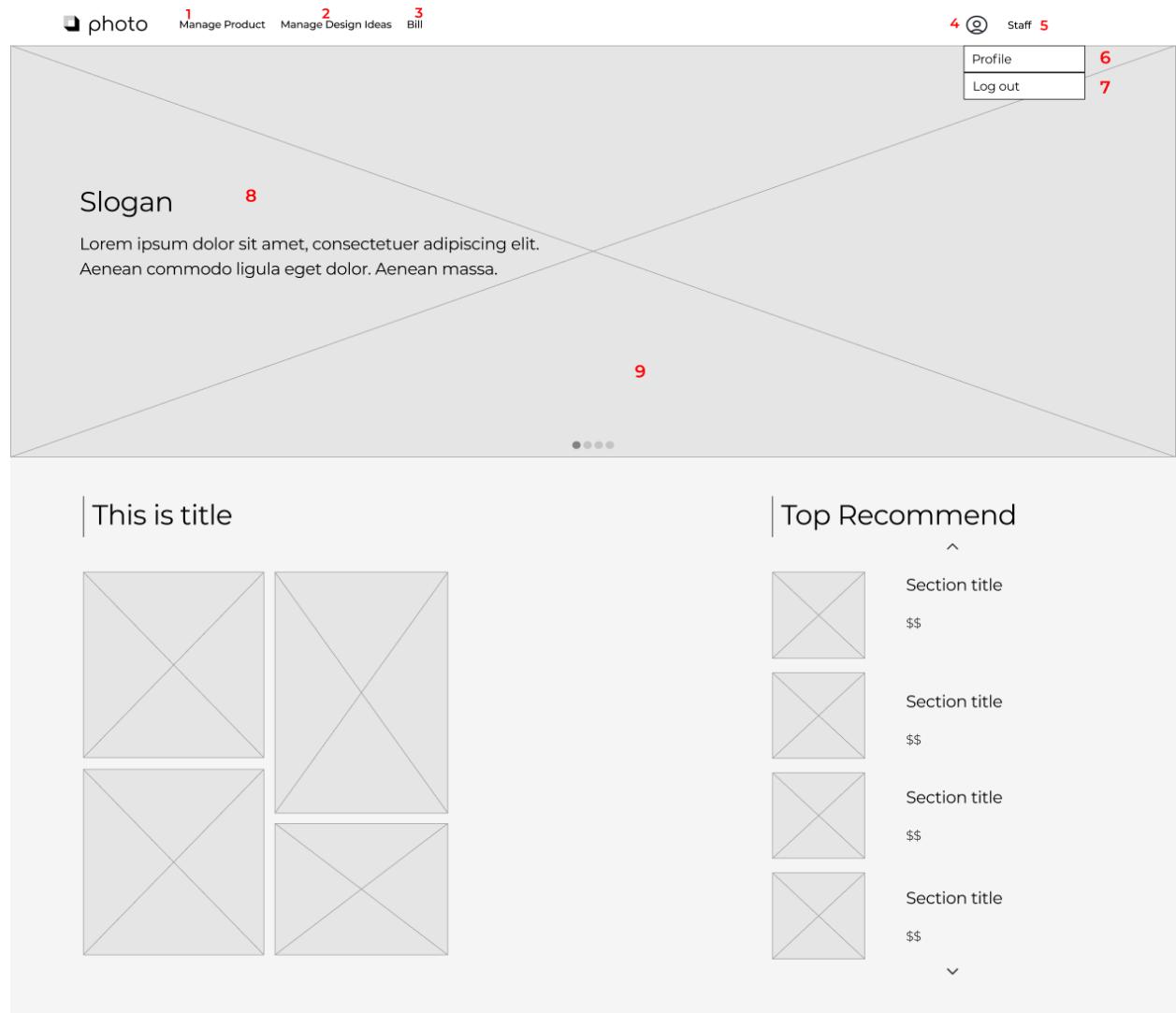


Figure 13 – Log in with Staff Role

No	Name	Type	Description
1	Manage Product	Button	Move to Mange Product page
2	Manage Design Idea	Button	Move to Manage Design Idea page

3	Bill	Button	Move to Bill page
4	Account Icon	Select Box	Show the options
5	Account Name	Text	The name of the account
6	Profile	Dropdown	Move to Profile page
7	Log out	Dropdown	Execute log out command
8	Slogan	Text	The slogan of the page
9	Slide image	Image	Page image

The screenshot shows a web-based profile editing interface. At the top, there's a navigation bar with links for 'photo', 'Manage Product', 'Manage Design Ideas', and 'Bill'. On the right, it says 'Staff'. The main area is titled 'Profile Detail' with a red number '1' above it. Below the title are several input fields:

- 'First Name' field containing 'Staff' with a red number '2' to its right.
- 'Last Name' field containing 'ABC' with a red number '3' to its right.
- 'Phone Number' field containing '(307) 555-0133' with a red number '4' to its right.
- 'Address' field containing '2972 Westheimer Rd. Santa Ana, Illinois 85486' with a red number '5' to its right.
- 'Gmail' field containing 'willie.jennings@example.com' with a red number '6' to its right.
- 'Password' field containing '*****' with a red number '7' to its right.

At the bottom left is a dark red 'Edit' button with a white outline, and a red number '8' is positioned to its right.

Figure 14 – Staff Profile

No	Name	Type	Description
1	Profile Detail	Text	The title of the Profile Detail page
2	First Name	Textbox	The first name of the staff
3	Last Name	Textbox	The last name of the staff
4	Phone Number	Number	The phone number of the staff
5	Address	Textbox	The address of the staff
6	Gmail	Textbox	The gmail of the staff
7	Password	Text	Password account
8	Edit	Button	Button to edit profile

Figure 15 – Staff Profile Edit

No	Name	Type	Description
1	Edit Profile	Text	The title of the Edit Profile page
2	First Name	Textbox	Input staff first name
3	Last Name	Textbox	Input staff last name
4	Gmail	Textbox	Input staff email
5	Current Password	Textbox	Show the current password
6	New Password	Textbox	Input staff password
7	Re-type Password	Textbox	Re-type staff password
8	Mobile phone number	Textbox	Input staff mobile phone number
9	Address	Textbox	Input staff address
10	Cancel	Button	Cancel editing process
11	Save	Button	Save infor after edited

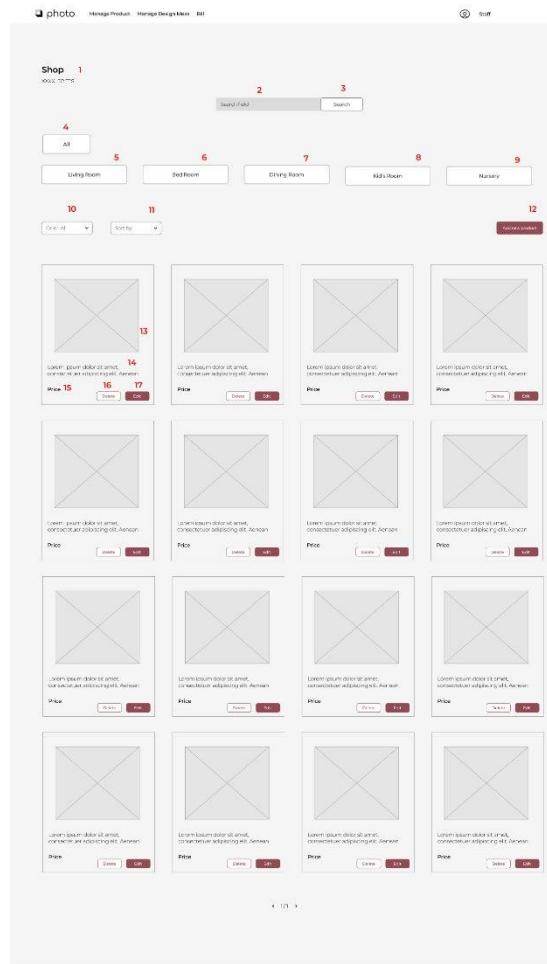


Figure 16 – Staff manage product

No	Name	Type	Description
1	Shop	Text	The title of the shop page
2	Search field	Textbox	The search textbox for the customer types in
3	Search	Button	Execute search command
4	All	Button	Execute show all type of product
5	Living Room	Button	Execute show product in living room
6	Bed Room	Button	Execute show product in bed room
7	Dining Room	Button	Execute show product in dining room
8	Kid's Room	Button	Execute show product in Kid's room
9	Nursery	Button	Execute show product in nursery
10	Color	Dropdown	Filter product with color selected

11	Sort	Dropdown	Sort product
12	Add new Product	Button	Redirect to add product page
13	Product image	Image	The picture of the product
14	Description	Text	The information of the product
15	Price	Text	The price of the product
16	Delete	Button	Delete product
17	Edit	Button	Edit product

photo Manage Product Manage Design Ideas Bill Staff

Create Product 1

Product Name 4

Product Quantity 5

Product Price 6

Product Color 7

Country of Origin 8

Description 9

Cancel 11 Create 10

Figure 17 – Staff Create Product

No	Name	Type	Description
1	Create Product	Text	The tile of the Create Product page
2	Product Image	Image	The image of the product
3	Change Picture	Button	Change picture of product
4	Product Name	Textbox	Input product name
5	Product Quantity	Textbox	Input product quantity
6	Product Price	Textbox	Input product price

7	Product Color	Textbox	Input product color
8	Country of Origin	Textbox	Input product origin
9	Description	Textbox	Input product description
10	Cancel	Button	Cancel create new product
11	Create	Button	Create new product

The screenshot shows a 'Update Product' interface. At the top left is a placeholder for a photo with a 'Change Picture' button below it. To the right are tabs for 'photo', 'Manage Product', 'Manage Design Ideas', and 'Bill'. On the far right is a 'Staff' icon. The main area has a title 'Update Product' with a red '1' above it. Below the title is a large square placeholder with a red '2' in the bottom right corner. To the right of the placeholder are several input fields: 'Product Name' (4) containing 'California Modern Dream Home', 'Product Quantity' (5) containing '20', 'Product Price' (6) containing '1000\$', 'Product Color' (7) containing 'Red, Blue, Nature', 'Country of Origin' (8) containing 'USA', and 'Description' (9) containing placeholder text. At the bottom are two buttons: 'Cancel' (10) and 'Save' (11).

Figure 18 – Staff Edit Product

No	Name	Type	Description
1	Create Product	Text	The tile of the Create Product page
2	Product Image	Image	The image of the product
3	Change Picture	Button	Change picture of product
4	Product Name	Textbox	Input product name
5	Product Quantity	Textbox	Input product quantity
6	Product Price	Textbox	Input product price
7	Product Color	Textbox	Input product color
8	Country of Origin	Textbox	Input product origin
9	Description	Textbox	Input product description
10	Cancel	Button	Cancel create new product

11	Save	Button	Save new product updated
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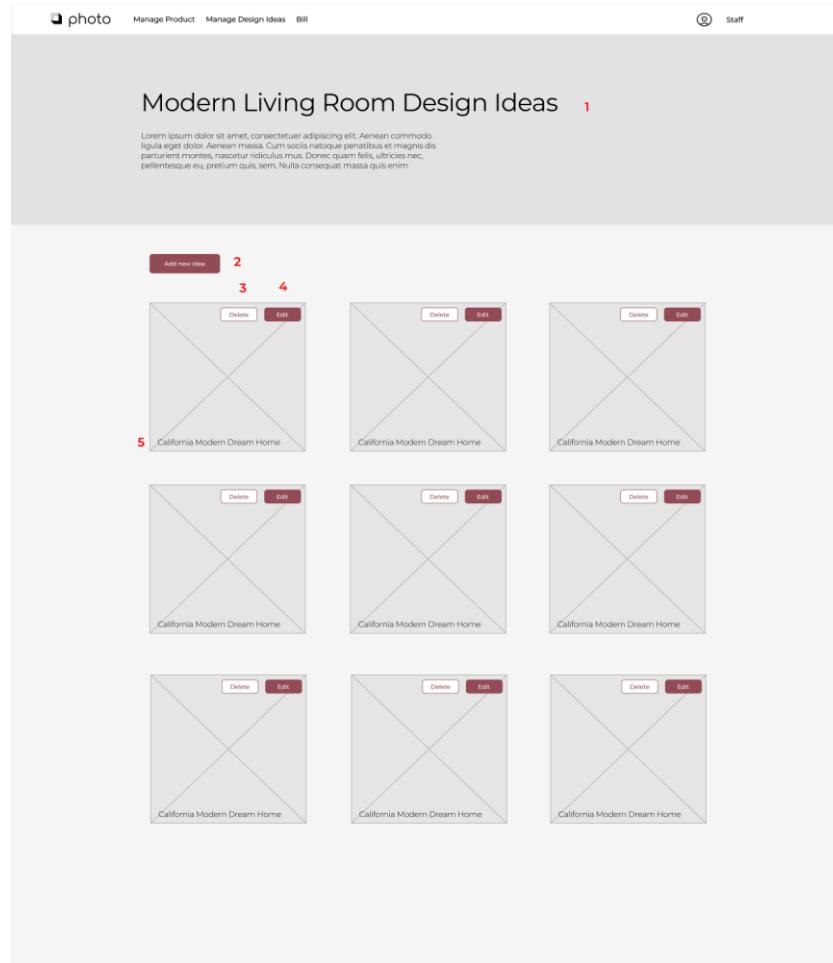


Figure 19 – Staff Manage Design Ideas Step 3

No	Name	Type	Description
1	Image Title	Text	The title of the image
2	Add New Idea	Button	Redirect to add new idea page
3	Delete	Button	Delete room
4	Edit	Button	Redirect to edit page

5	Idea Image	Image	The picture of the idea
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The screenshot shows a web-based application interface titled 'Edit Design Ideas'. At the top left is a 'photo' button, and at the top right is a 'Staff' button. Below the title, there is a large placeholder image for the idea, which is a light gray square with a large 'X' drawn through it. To the right of the image is a form area. The first field is 'Ideas Name' containing 'California Modern Dream Home'. The second field is 'Description' containing placeholder text. At the bottom right of the form are two buttons: 'Cancel' and 'Save', with 'Save' being highlighted in red. On the far left of the page, there are navigation links: 'Manage Product', 'Manage Design Ideas', and 'Bill'. At the bottom left of the form area is a 'Change Picture' button.

Figure 20 – Staff Manage Design Ideas Step 4

No	Name	Type	Description
1	Edit Design Ideas	Text	The title of the Edit Design Ideas page
2	Idea Image	Image	The image of the idea
3	Change Picture	Button	Execute the change picture command
4	Ideas Name	Textbox	Input ideas name
5	Description	Textbox	Input ideas description
6	Save	Button	Save idea after edited
7	Cancel	Button	Cancel editing process

4. Non-Functional Requirements:

4.1. External Interfaces:

- User Interfaces:
 - + User interface displays best on 1920x1080 resolutions + GUI should be simple, clear and have recognizable elements.
- Software Interfaces:

+ Web application: work well with Firefox, Chrome, Microsoft Edge, and others browser that has its version supported in ReactJS.

- Hardware Interfaces:

+ PC.

+ Laptop.

4.2. Quality Attributes:

- Usability:

+ Website's UI is fit for each browser on each device +

Some actions were represented by icons instead of text.

- Reliability:

+ The information storing on the database is permanent.

- Performance:

+ System has successfully test with basic standard

+ Requests from users are responded in less than 20 seconds at 5 Mbps bandwidth speed.

- Dependability:

+ Security:

- Only Admin has fully access to the system.
- Input data is validated before saving to database.
- User only accesses to web user.
- Encryption of passwords.

+ Safety:

- Adjust privacy settings
- Control what information is shared with outside sources

+

Supportability:

- Coding standards: Java coding standards + Design Constraints:
- Time constraints: Must be completed in a certain time
- Cost constraints: Must be completed with a specific budget • Technical Constraints: Limits of technology or available technology

IV. Software Design Document:

1. Overall Description:

1.1. Assumptions:

- React for web apps clients using on PC
- Java & and Spring boot for backend development
- Database persistence with SQL Server

1.2. Design Constraints:

- The system has high elasticity and scalability.
- The system has high availability and reliability.
- High performance and efficiency.
- The system has high manageability for future extensions.

2. System Architecture Design:

2.1. Overall Architecture:

This system follows MVC architecture with the following components:

- Model is a part of the system that represents the shape of data and business logic. It includes Rest API service for Admin, Staff, Customer (Guest).
- Controller is a part of the system handler. It contains Controller for Customer Rest API, Controller for Admin Rest API, Controller for Staff Rest API.
- View is the user interface. It contains Customer Application, Admin Web Application, Staff Web Application.

a. Back-end:

Back-end built with Spring Boot 2.5.10 because:

- Fast and easy development of Spring-based applications.
- No need for the deployment of war files.
- The ability to create standalone applications.
- Helping to directly embed Tomcat into an application.
- Reduced amounts of source code.

b. Front-end:

Web Application is developed by ReactJS because:

- Makes JavaScript coding easier.
- Extremely competent.
- Excellent cross-platform support.
- Handles dependencies.
- Template designing made it easy.
- Provides amazing developer tools.
- UI focused designs.
- Easy to adopt.

Web Application is developed by NextJS because:

- Good experience for users, easily perform SSR, CSR, and even SSG.
- Used by various famous companies, for example, Netflix, Uber, Twitch...
- Architecture of Next.js helps increase the effectiveness of SEO.
- Good support for React with outstanding performance.
- Function development does not require configuration, for example, Static, Webpack, Babel

- Support Serverless, integrated CSS.
- Support optimizing your code.
- Support TypeScript, Image Optimize, Fast Refresh

2.2. System Architecture:

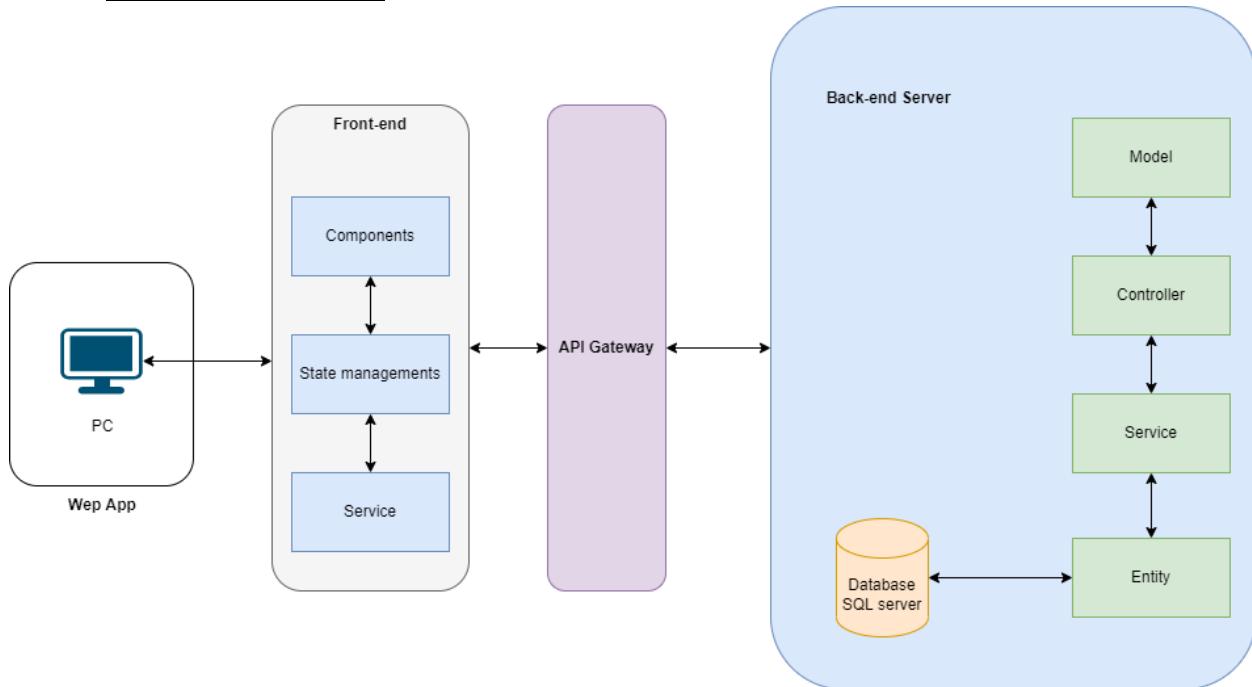


Figure 1. System Architecture

- Back-end system is built with Spring boot 2.5.10.
- Front-end system is built with React JS and Next JS.
- Web App communicates to the Back-end System through an API Gateway.

3. System Detailed Design:

3.1. Class Diagram:

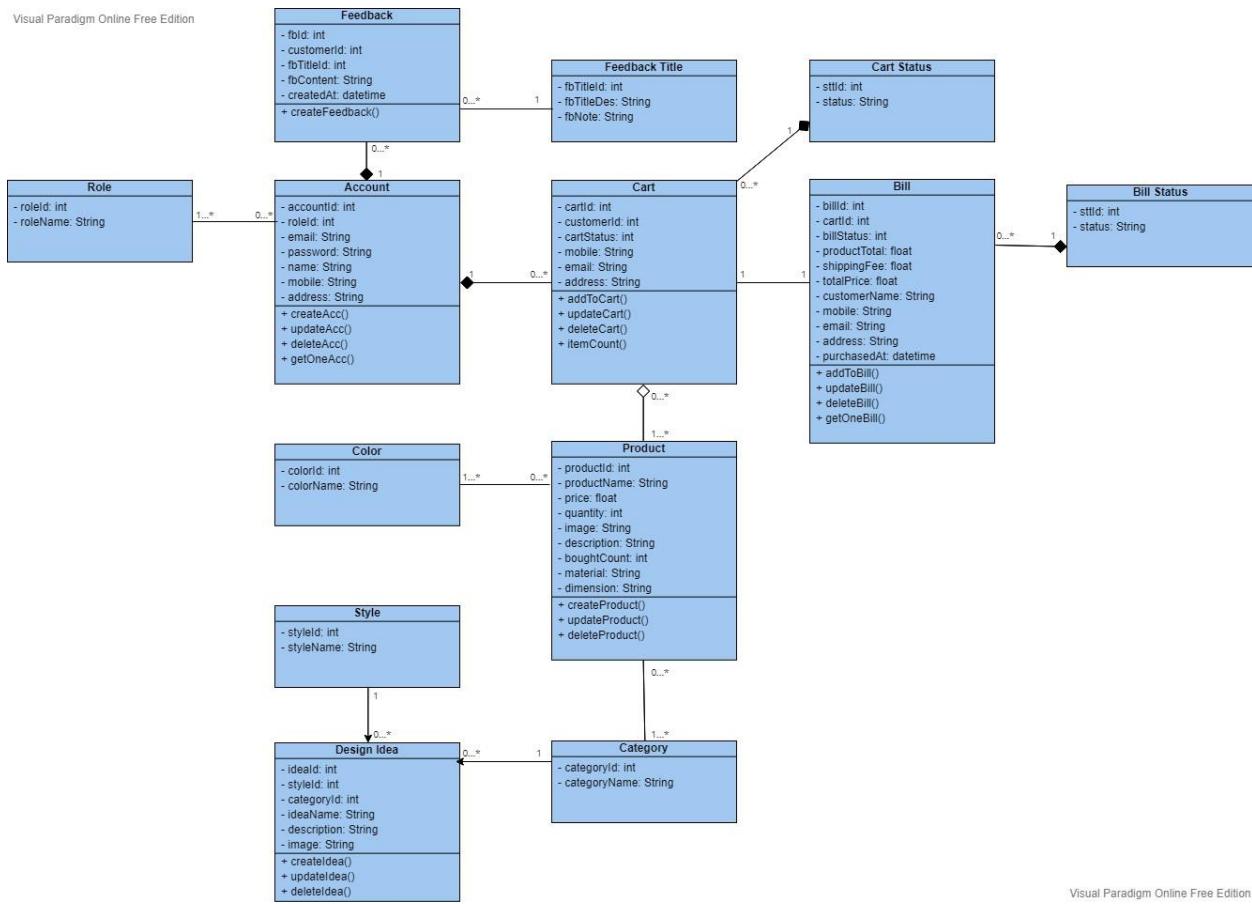


Figure 2. Class Diagram

3.2. Specification:

a. Account Class:

Attribute	Type	Visibility	Description
accountId	int	private	Unique identifier of an account
roleId	int	private	The role of the account
email	String	private	The email of the account
password	String	private	The password of the account
name	String	private	The name of the account's owner
mobile	String	private	Phone's number of the account's owner
address	String	private	The address of the account's owner

b. Role Class:

Attribute	Type	Visibility	Description
roleId	int	private	Unique identifier of a role
roleName	String	private	The name of each role

c. Feedback Class:

Attribute	Type	Visibility	Description
fbId	int	private	Unique identifier of a feedback
customerId	int	private	The ID of the feedback's sender
fbTitleId	int	private	The title ID of the feedback
fbContent	String	private	The main content of the feedback
createdAt	datetime	private	The time when the feedback is sent

d. Feedback Title Class:

Attribute	Type	Visibility	Description
fbTitleId	int	private	Unique identifier of a feedback title
fbTitleDes	String	private	The description about the feedback title
fbNote	String	private	The addition note of that feedback title

e. Cart Class:

Attribute	Type	Visibility	Description
cartId	int	private	Unique identifier of a Cart
customerId	int	private	Unique identifier of Customer
cartStatus	int	private	The status of Cart
mobile	String	private	The phone number of Customer
email	String	private	The email of Customer
address	String	private	The address of Customer

f. Cart Status Class:

Attribute	Type	Visibility	Description
sttId	int	private	Unique identifier of a Cart Status
status	String	private	The status of Cart

g. Bill Class:

Attribute	Type	Visibility	Description

billId	int	private	Unique identifier of a Bill
cartId	int	private	Unique identifier of a Cart
billStatus	int	private	The status of Bill
productTotal	float	private	The total product of Bill
shippingFee	float	private	The shipping fee of Bill
totalPrice	float	private	The total price of Bill
customerName	String	private	The name of Customer
mobile	String	private	The phone number of Customer
email	String	private	The email of Customer
address	String	private	The address of Customer
purchasedAt	datetime	private	The date of Bill

h. Bill Status Class:

Attribute	Type	Visibility	Description
sttId	int	private	Unique identifier of a Bill Status
status	String	private	The status of Bill

i. Product Class:

Attribute	Type	Visibility	Description
productId	int	private	Unique identifier of the Product
productName	String	private	Name of the Product
price	float	private	Price of the Product
quantity	int	private	Quantity of the Product
image	String	private	Image of the Product
description	String	private	Description of the Product
boughtCount	int	private	Total purchases of the Product
material	String	private	Material of the Product
dimension	String	private	Dimension of the Product

j. Color Class:

Attribute	Type	Visibility	Description
colorId	int	private	Unique identifier of a color
colorName	String	private	The name of Color

k. Category Class:

Attribute	Type	Visibility	Description
categoryId	int	private	Unique identifier of a category
categoryName	String	private	The name of category

l. Design Idea Class:

Attribute	Type	Visibility	Description
ideaId	int	private	Unique identifier of the Idea
styleId	int	private	Unique identifier of the Style
categoryId	int	private	Unique identifier of the Category
ideaName	String	private	The name of the Idea
description	String	private	Description of the Idea
image	String	private	Image of the Idea

m. Style Class:

Attribute	Type	Visibility	Description
styleId	int	private	Unique identifier of a style
styleName	String	private	The name of style

3.3. Interactive Diagram:

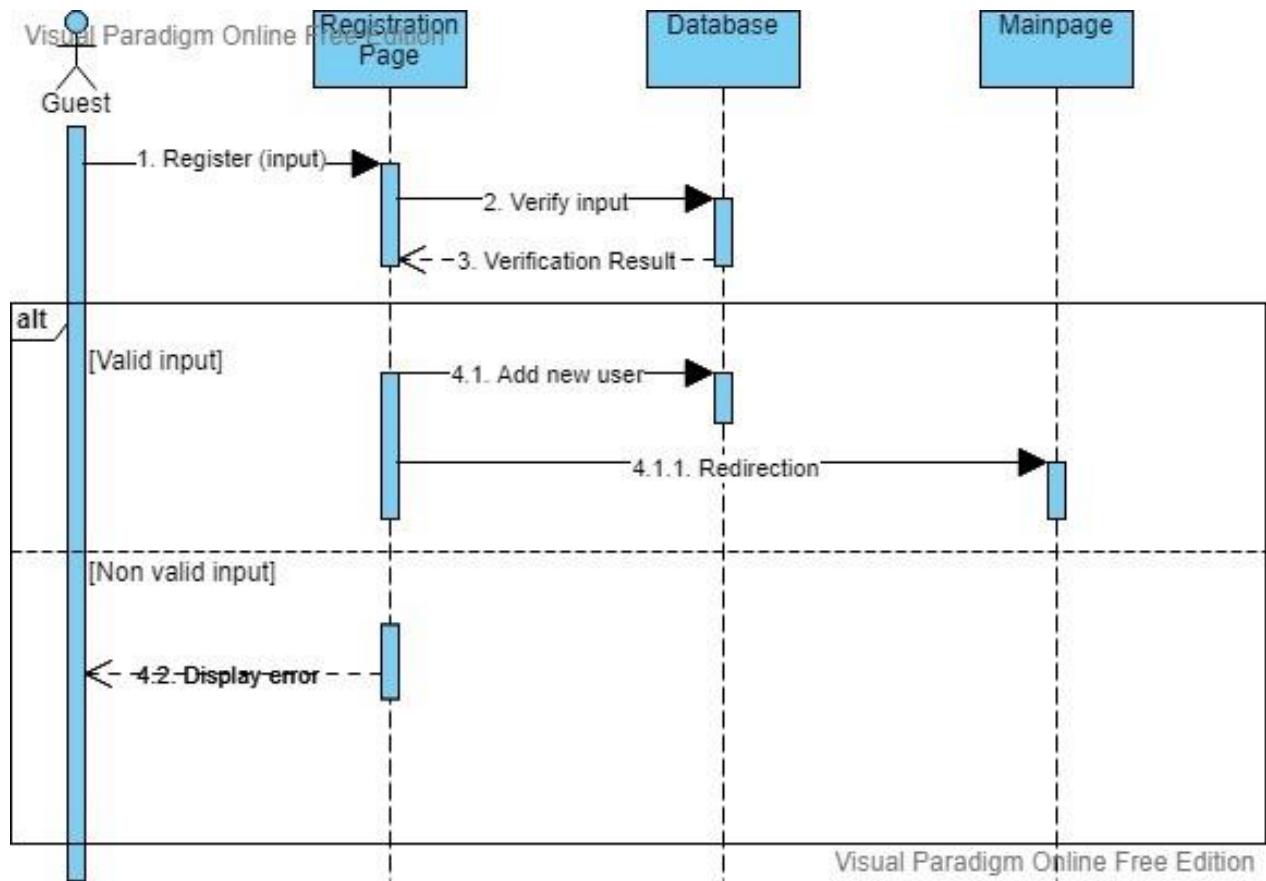


Figure 3. Registration Interactive Diagram

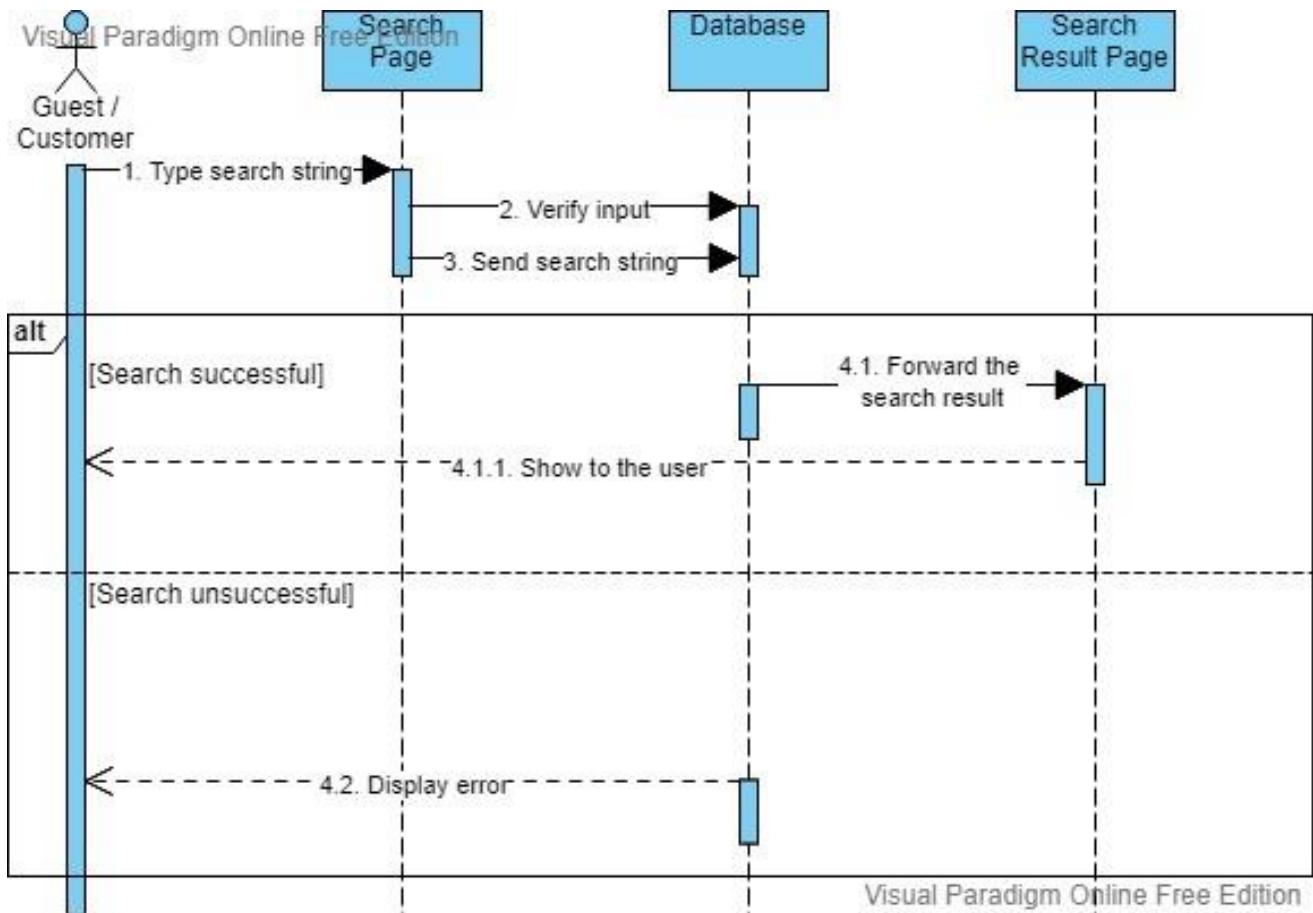


Figure 4. Search Product Interactive Diagram

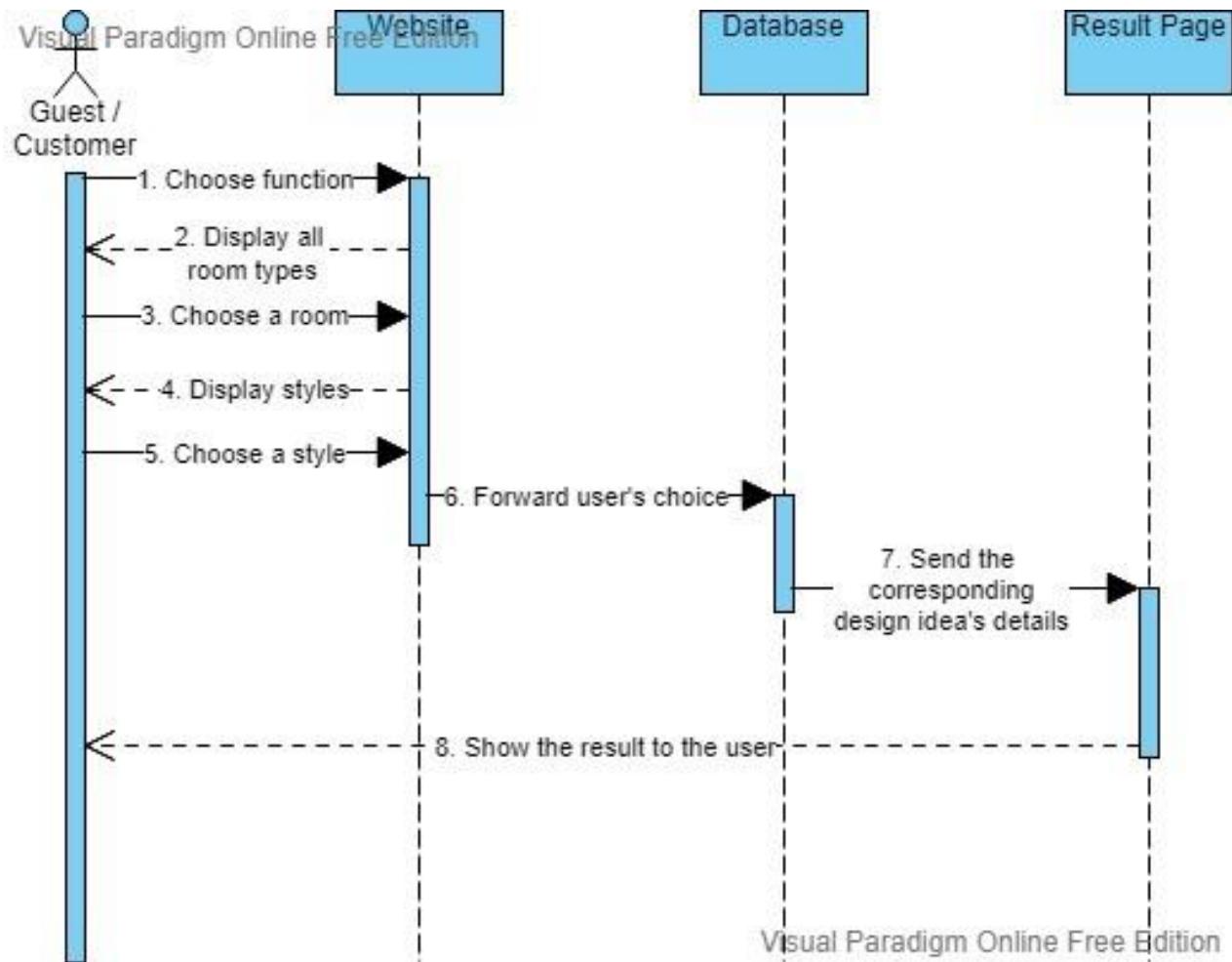


Figure 5. View Design Idea Interactive Diagram

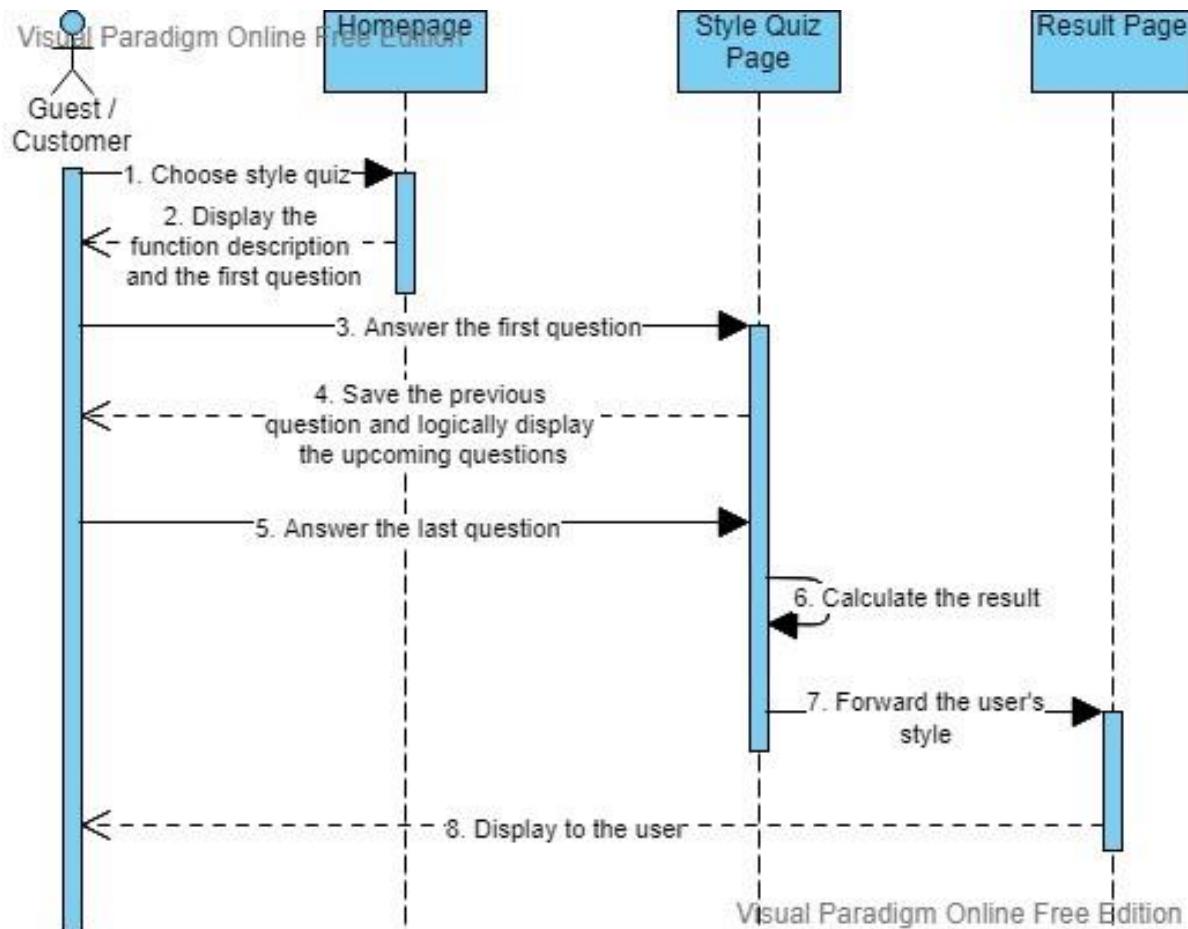


Figure 6. Style Quiz Interactive Diagram

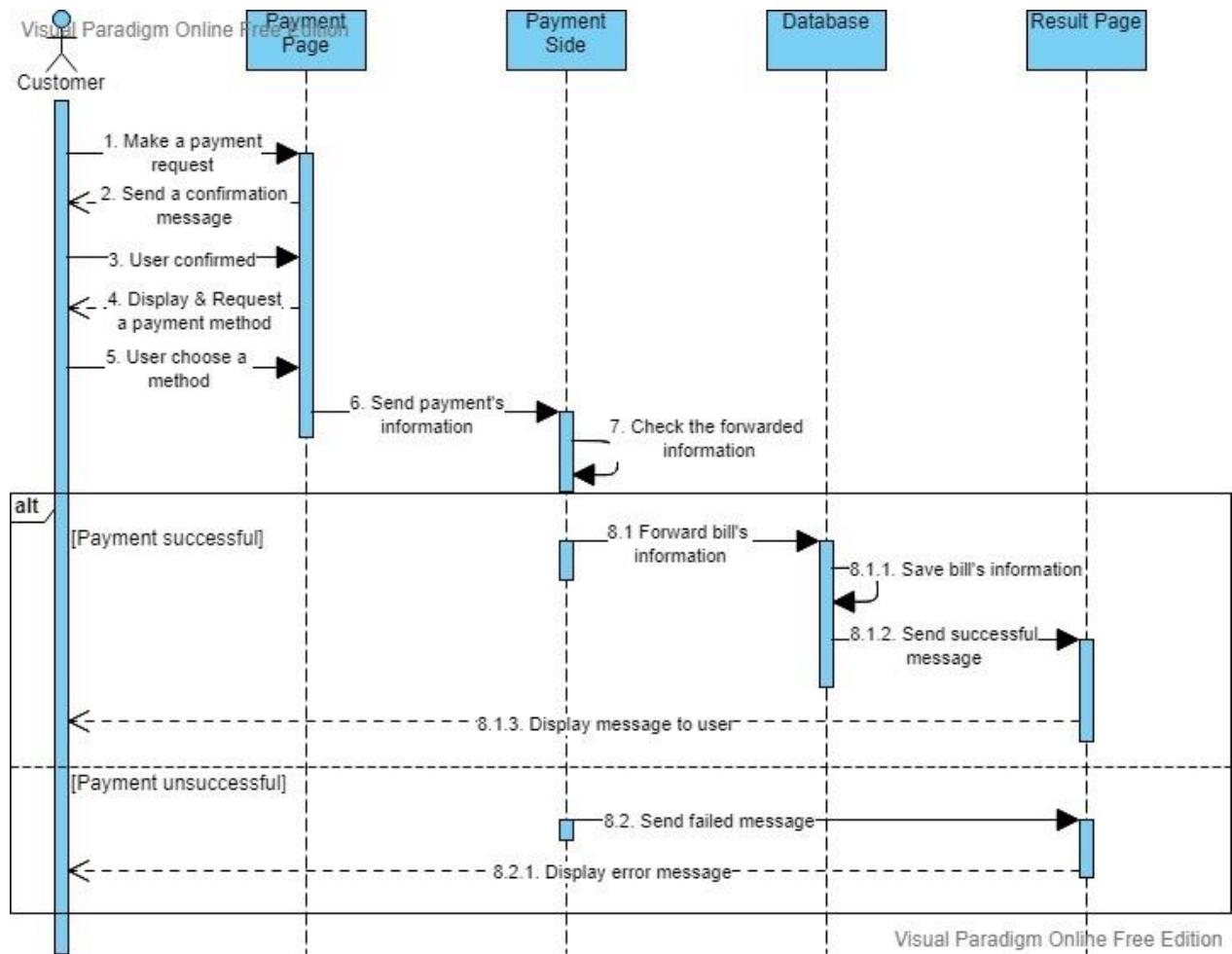


Figure 7. Payment Interactive Diagram

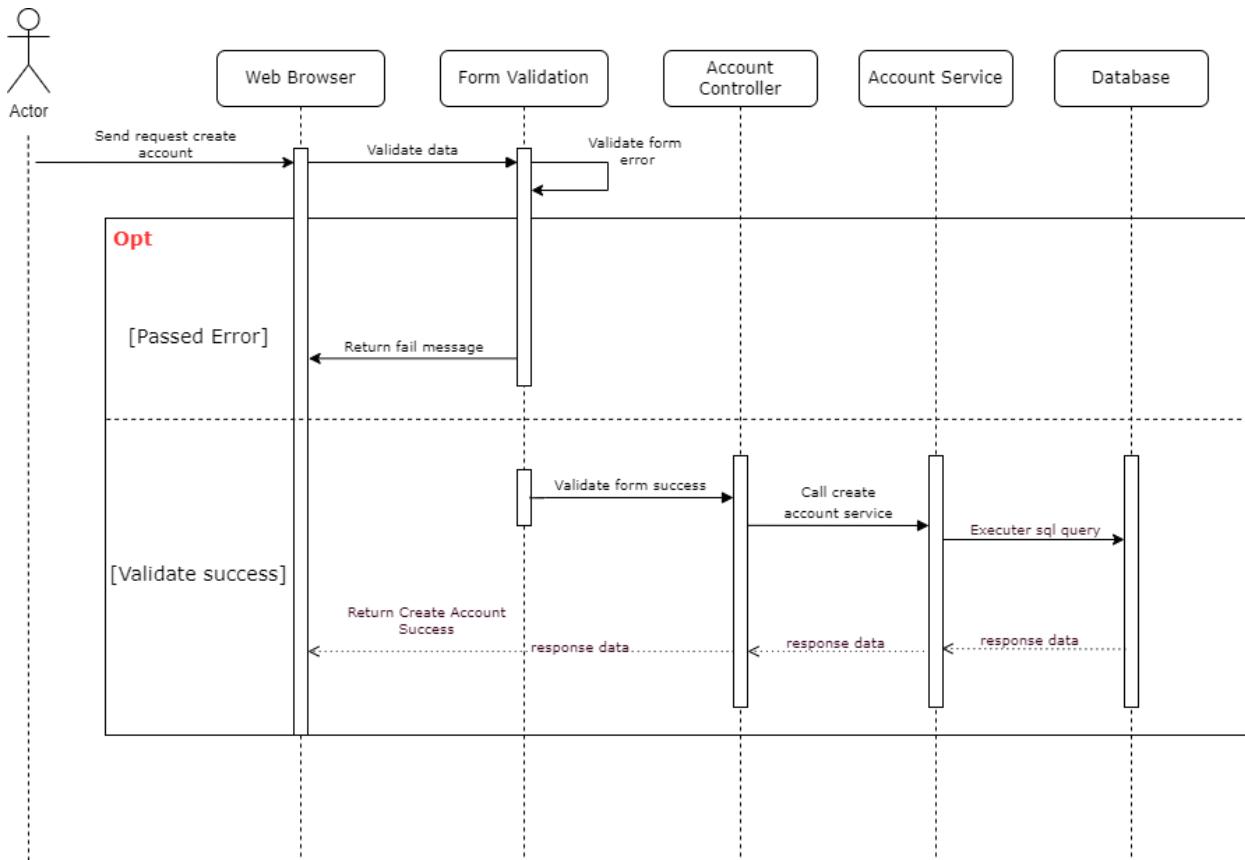


Figure 8. Create Staff Interactive Diagram

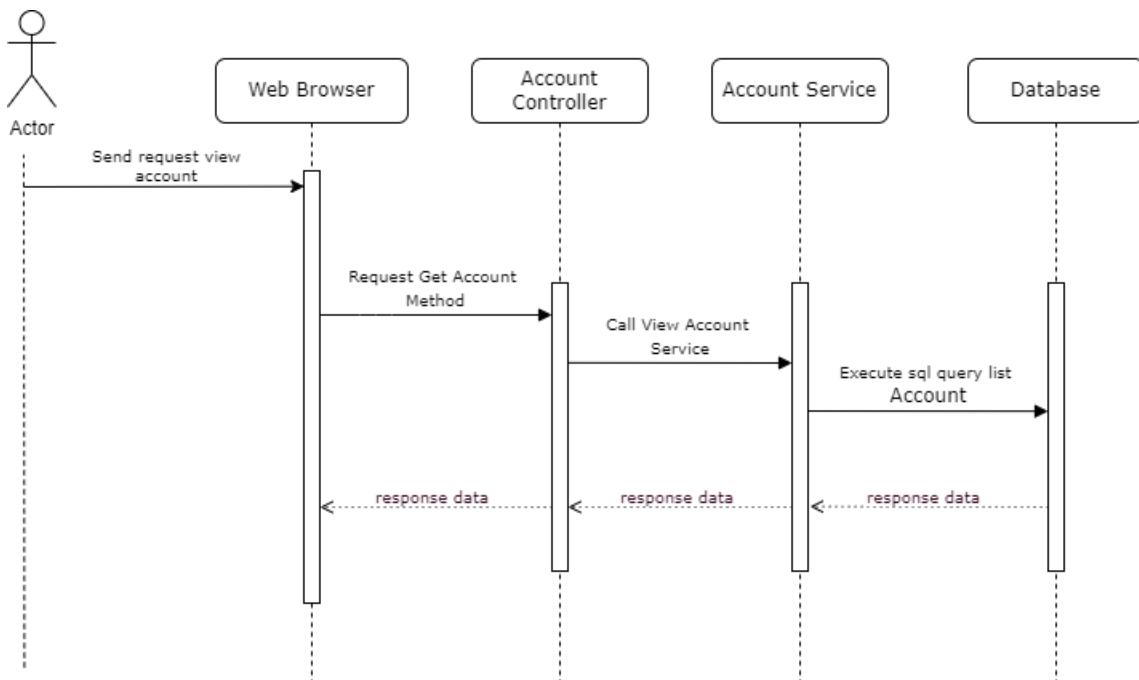


Figure 9. View Account Interactive Diagram

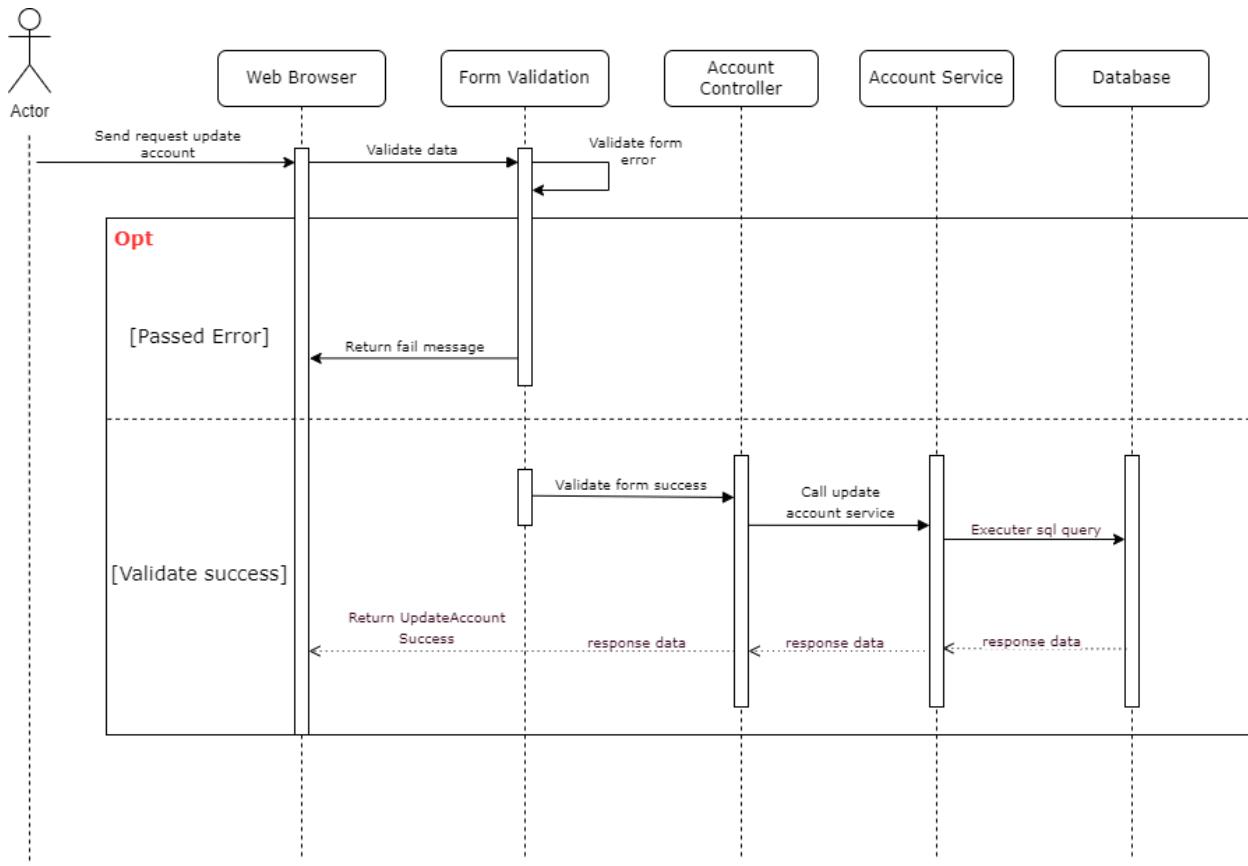


Figure 10. Update Account Interactive Diagram

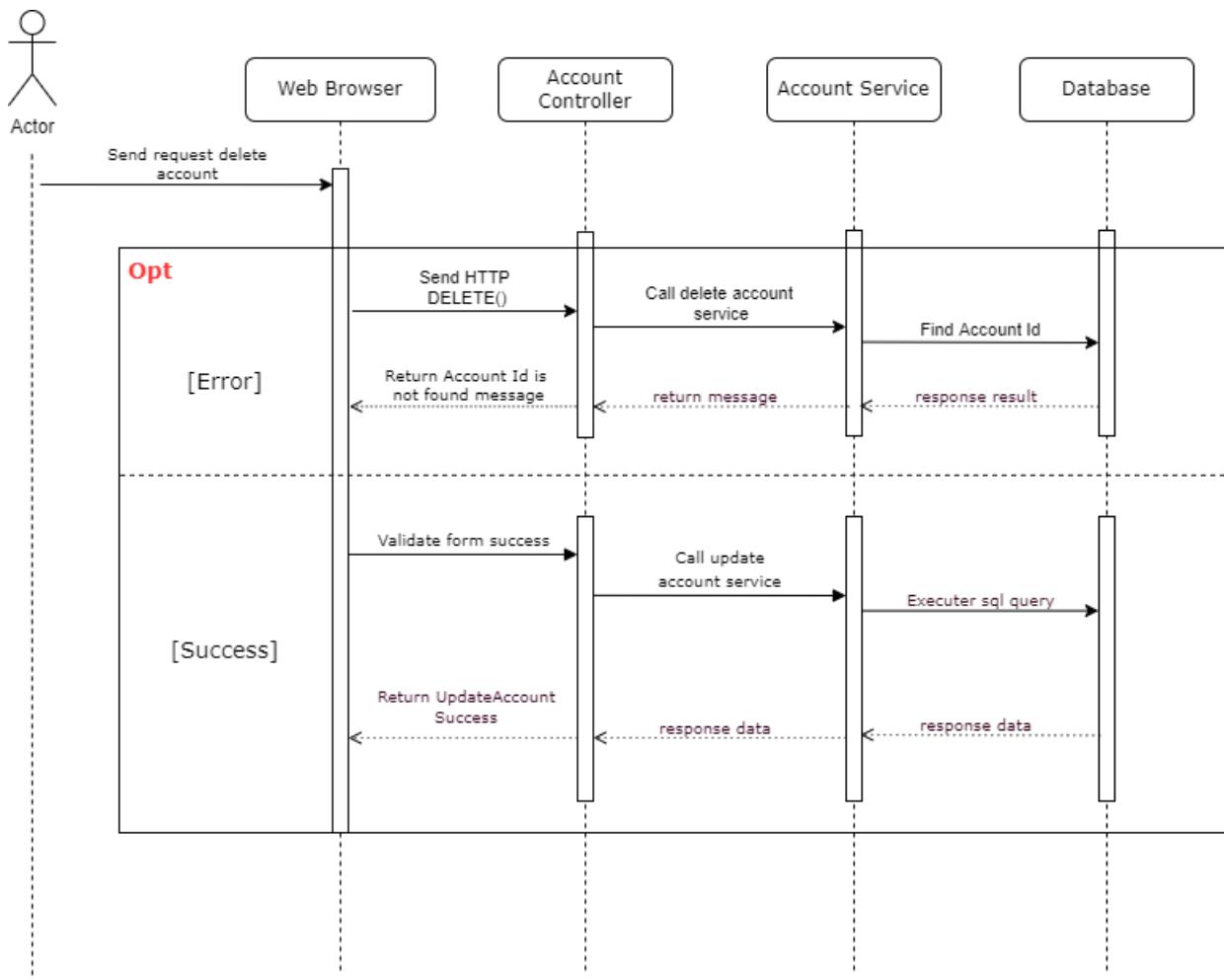


Figure 11. Delete Account Interactive Diagram

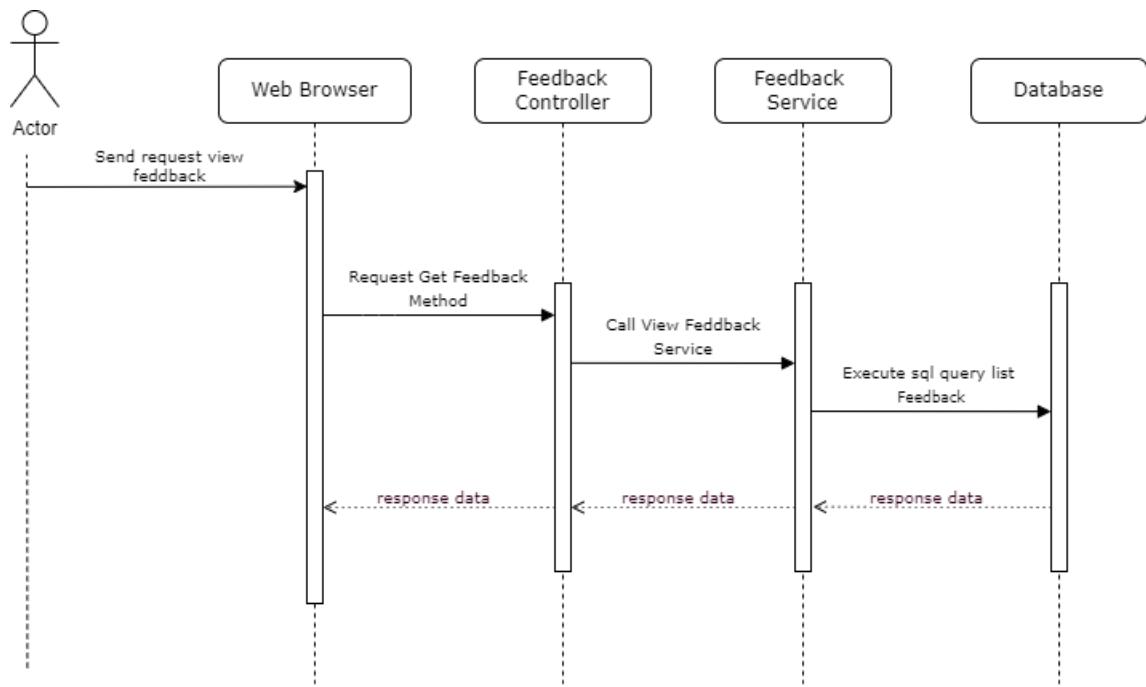


Figure 12. Receive Feedback Interactive Diagram

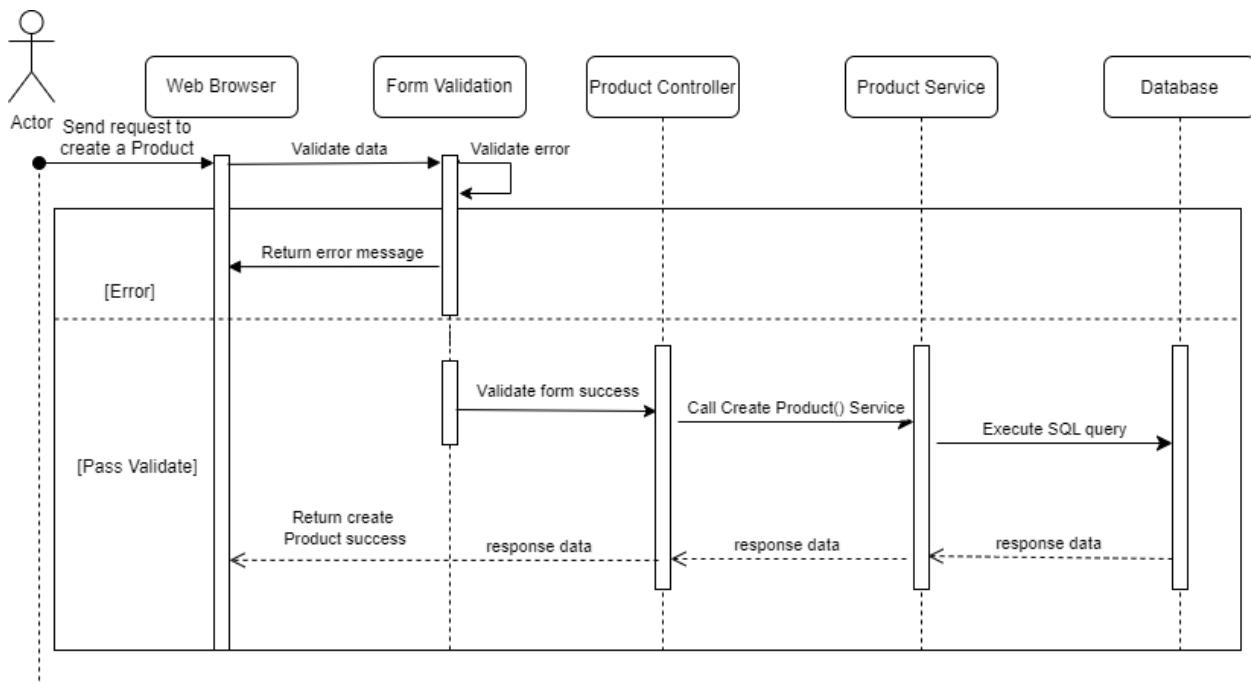


Figure 13. Create Product Interactive Diagram

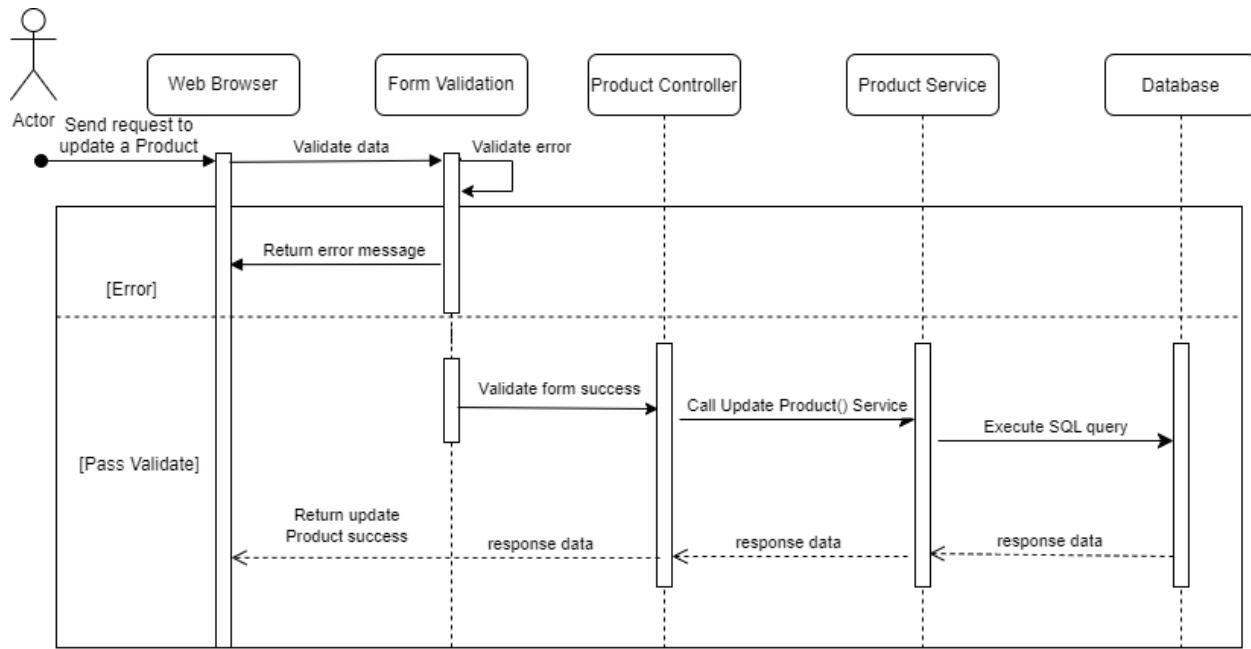


Figure 14. Update Product Interactive Diagram

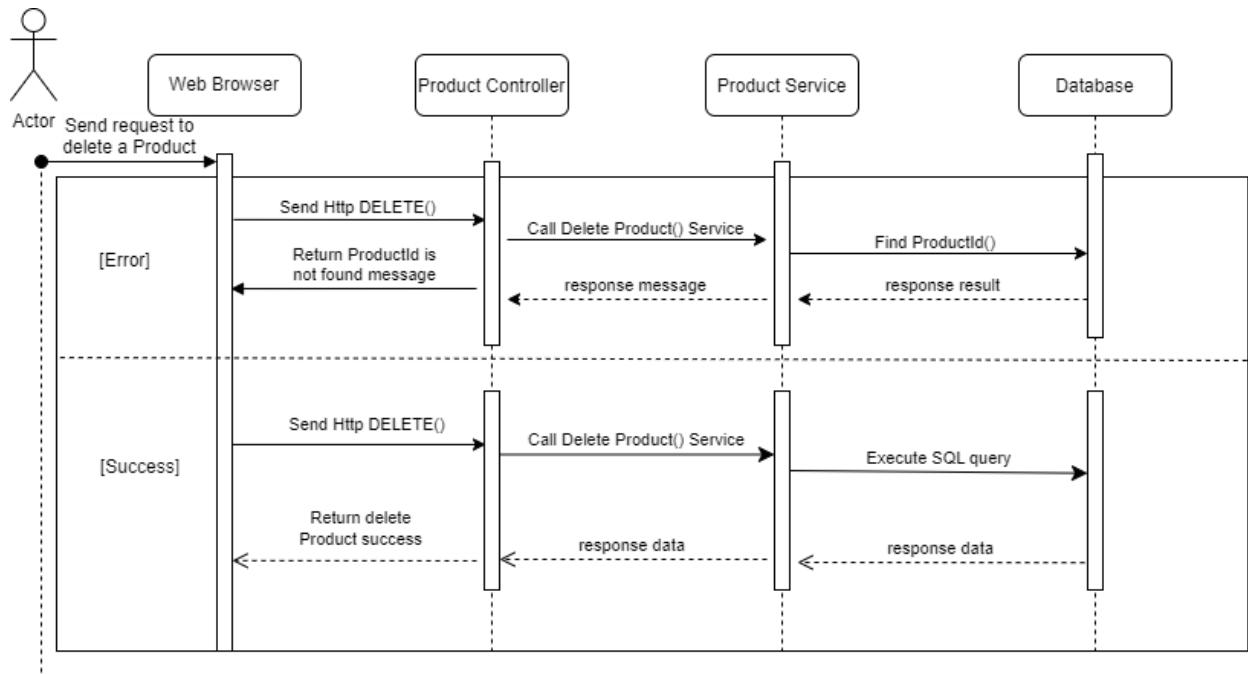


Figure 15. Delete Product Interactive Diagram

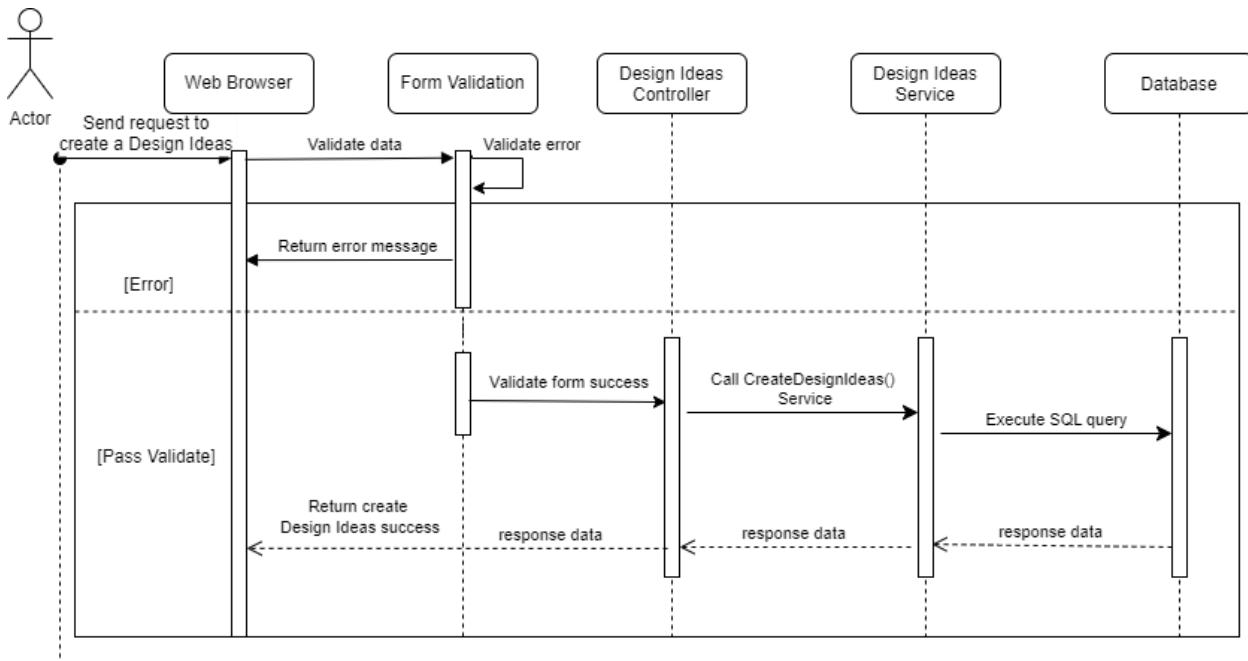


Figure 16. Create Design Idea Interactive Diagram

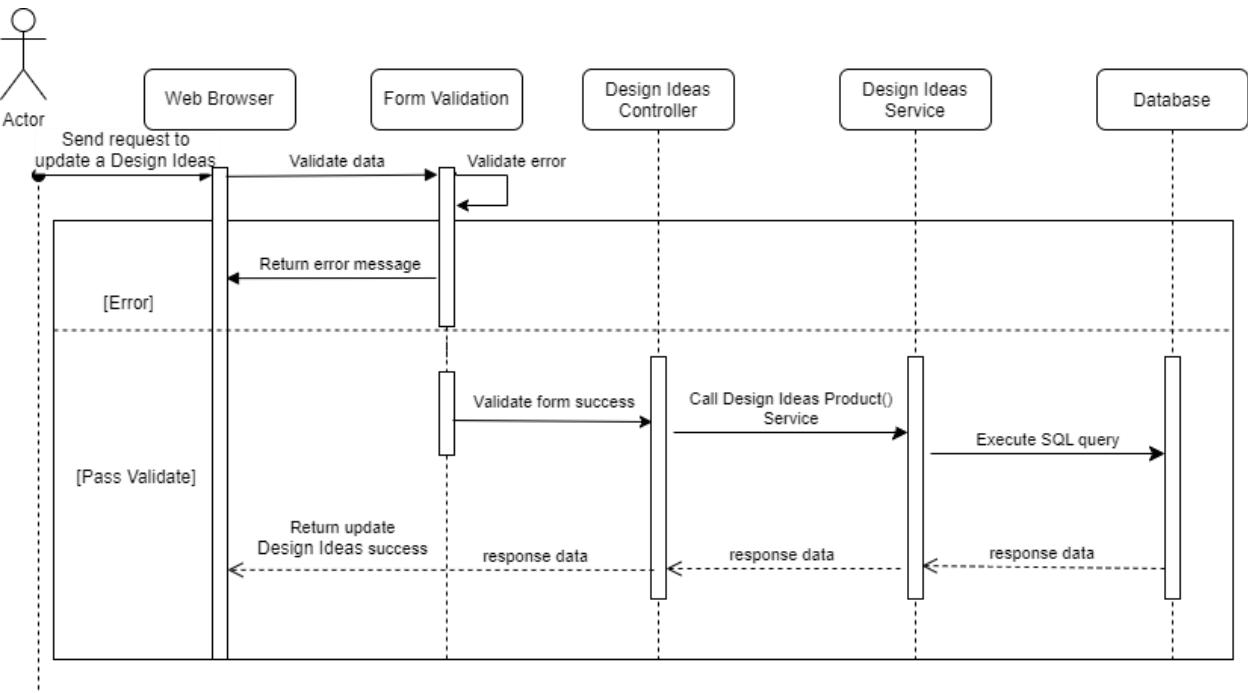


Figure 17. Update Design Idea Interactive Diagram

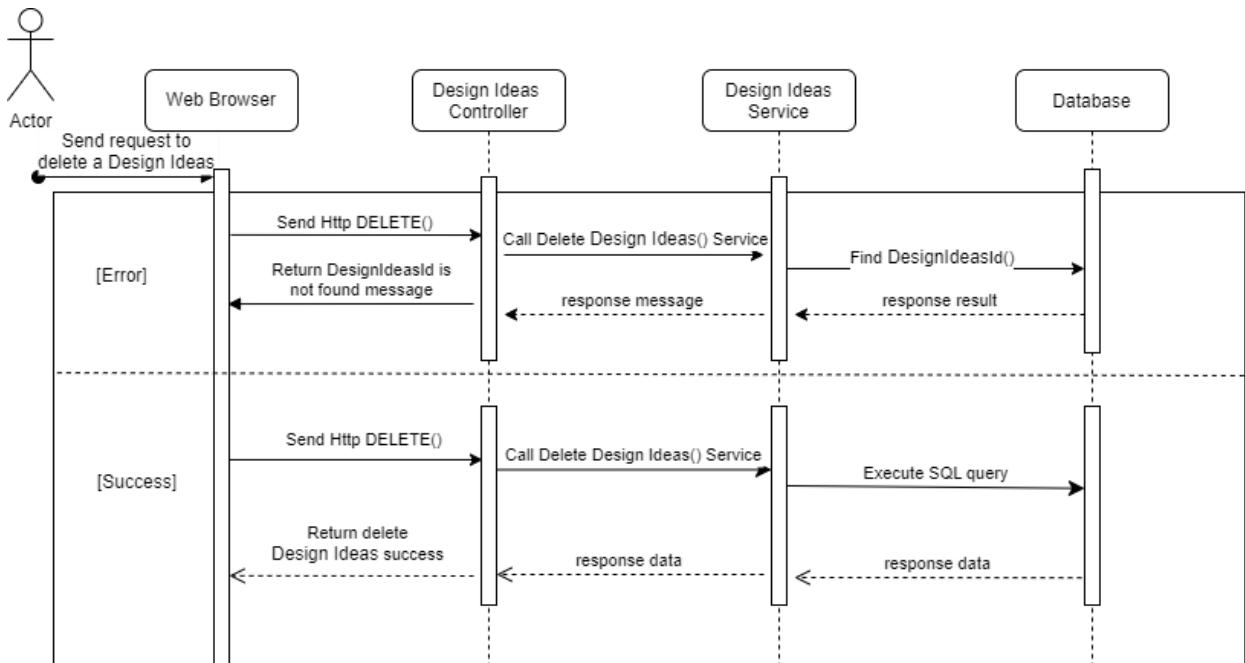


Figure 18. Delete Design Idea Interactive Diagram

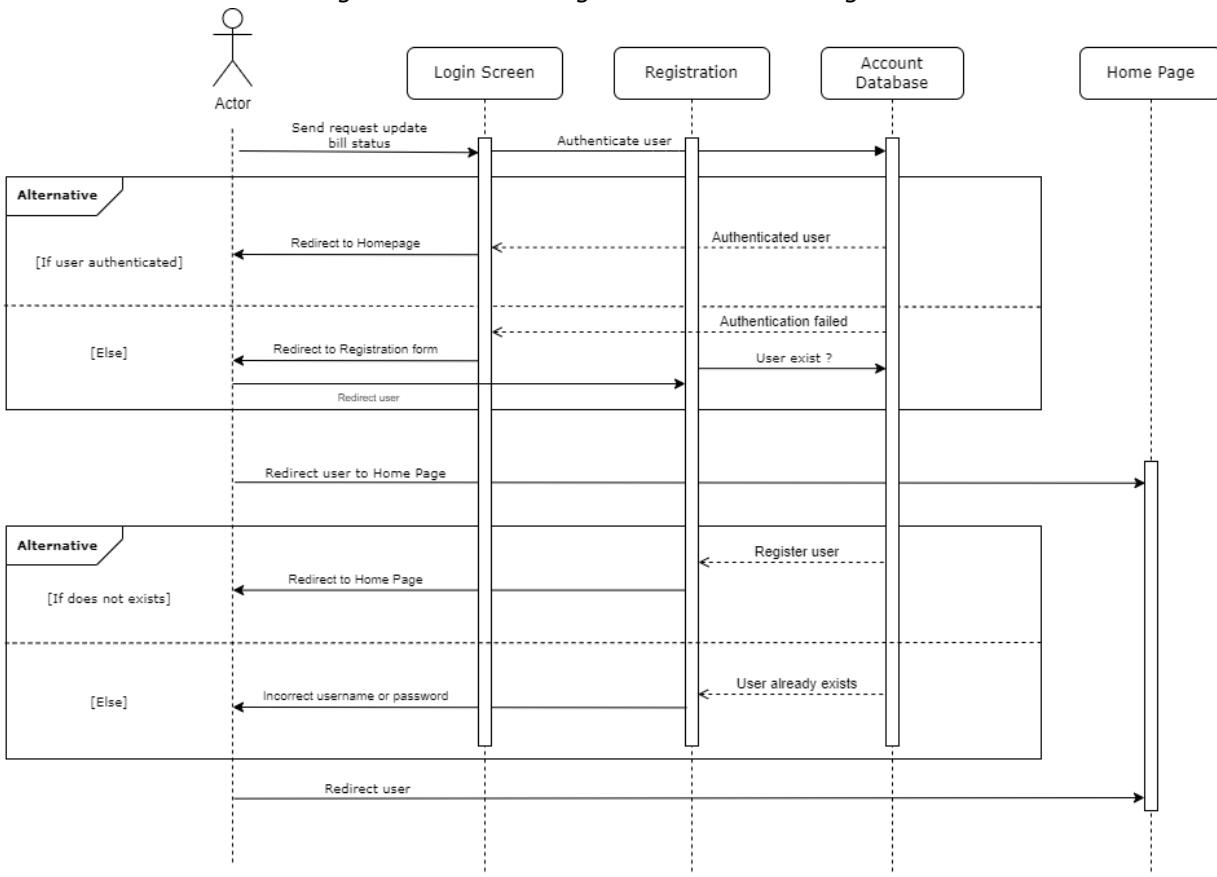


Figure 19. Login / Registration Interactive Diagram

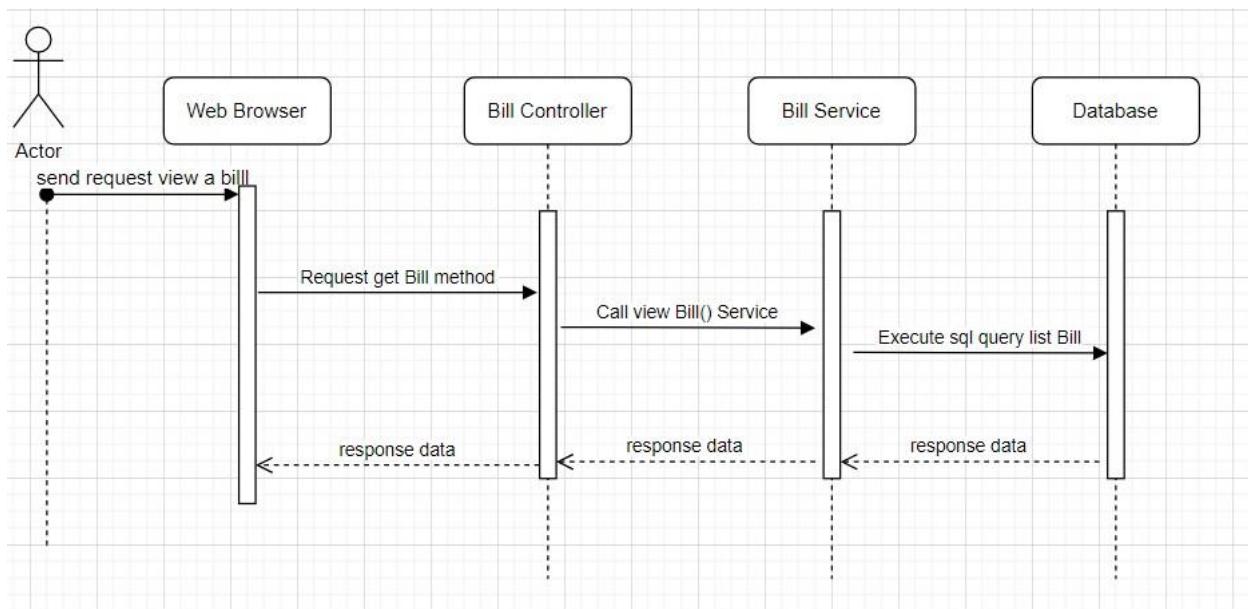


Figure 20. View Bill Interactive Diagram

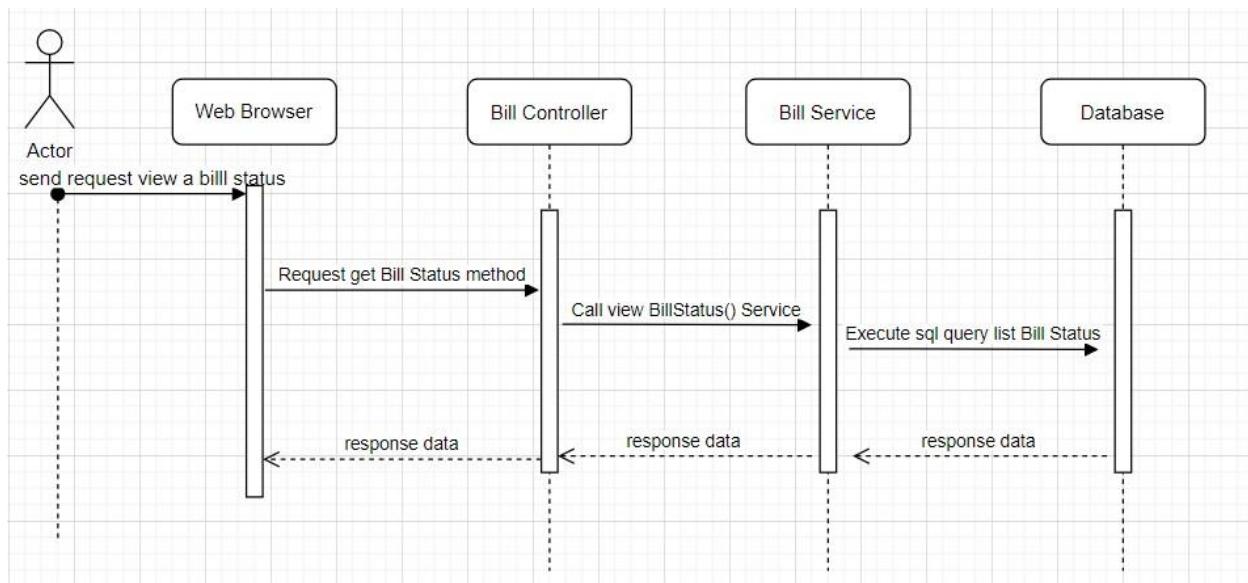


Figure 21. View Bill Status Interactive Diagram

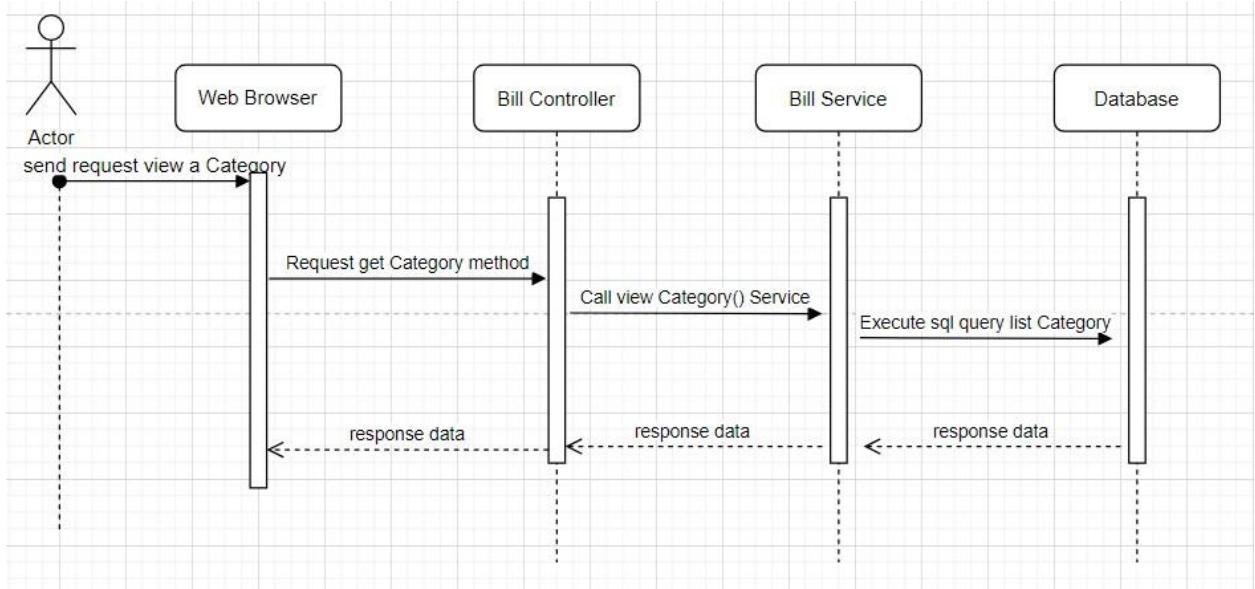


Figure 22. View Category Interactive Diagram

4. Data & Database Design:

4.1. Entity Diagram:

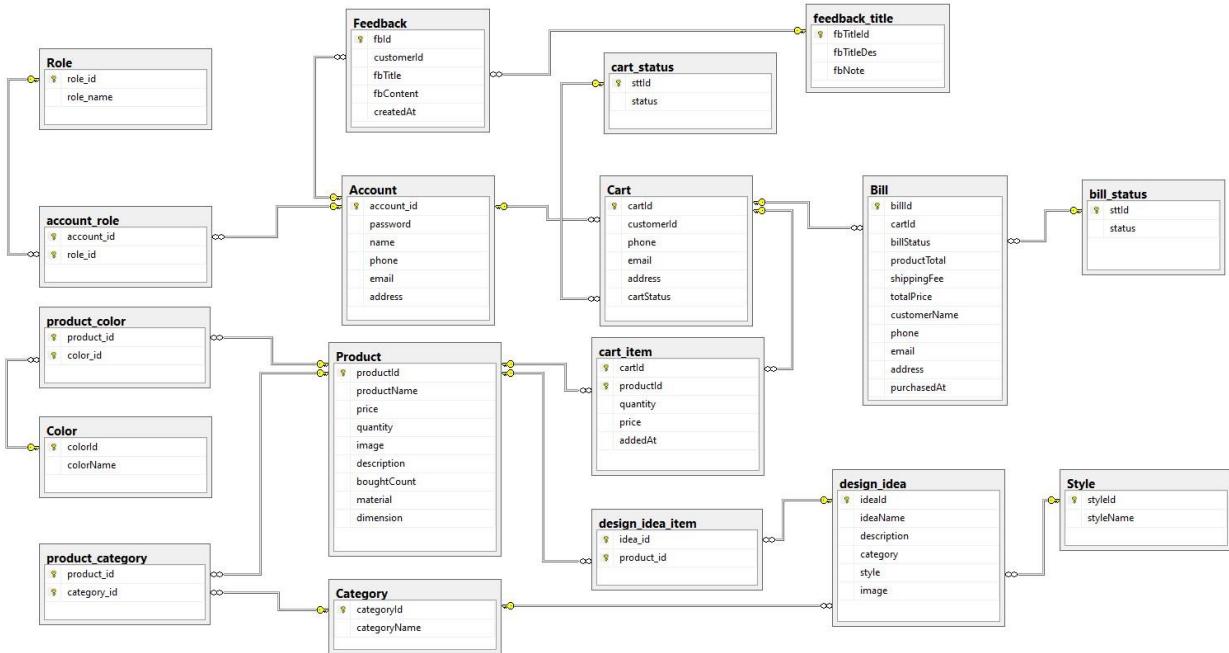


Figure 23. Entity Diagram

4.2. Database Design:

4.2.1 Account Design



Table account

Table account_roles

Table role

4.2.1.1. Table accounts:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Account_id	int	Yes	No	PK	Id of accounts
2	Password	Varchar	No	No		Password for account
3	Name	Nvarchar	No	No		Full Name of accounts
4	Phone	Varchar	No	No		Phone of accounts
5	Email	Varchar	Yes	No		Email of accounts
6	Address	Nvarchar	No	No		Address of accounts

4.2.1.2. Table account roles:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Account_id	Int	Yes	No	PK+FK	Id of accounts
2	Role id	Int	Yes	No	PK+FK	Id of roles

4.2.1.3. Table roles:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Role_id	Int	Yes	No	PK	Id of roles
2	Role_name	Varchar	No	No		Name of roles

4.2.2 Product design:

Product	
product	productId
product	productName
product	price
product	quantity
product	image
product	description
product	boughtCount
product	material
product	dimension

Table Product

Color	
color	colorId
color	colorName

Table Color

product_color	
product_color	product_id
product_color	color_id

Table Product_color

Category	
category	categoryId
category	categoryName

Table Category

product_category	
product_category	product_id
product_category	category_id

Table Product_category

4.2.2.1. Table Product:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Product id	Int	Yes	No	PK	Id of Product
2	Product Name	Nvarchar	No	No		Name of Product
3	Price	Float	No	No		Price of Product
4	Quantity	Int	No	No		Quantity of Product
5	Image	Text	No	No		Image of Product
6	Description	Ntext	No	No		Description of Product
7	BoughtCount	Int	No	No		Count of Product Sold
8	Material	Varchar	No	Yes		Material of Product

9	Dimension	Varchar	No	No		Dimension of Product
---	-----------	---------	----	----	--	----------------------

4.2.2.2. Table color:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Color id	Int	Yes	No	PK	Id of color
2	ColorName	Varchar	No	No		Name of color

4.2.2.3. Table Product_color:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Product id	Int	Yes	No	PK+FK	Id of product
2	Color id	Int	Yes	No	PK+FK	Id of color

4.2.2.4. Table Category:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Category id	Int	Yes	No	PK	Id of Category
2	CategoryName	Varchar	No	No		Name of Category

4.2.2.5. Table Product_Category:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Product id	Int	Yes	No	PK+FK	Id of product
2	Category id	Int	Yes	No	PK+FK	Id of Category

4.2.3 Order design:

Cart	
cartId	
customerId	
phone	
email	
address	
cartStatus	

Table Cart

Cart_item

cart_status	
sttId	
status	

Table Cart_status

cart_item	
cartId	
productId	
quantity	
price	
addedAt	

Table

4.2.3.1. Table Cart:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Cart id	Int	Yes	No	PK	Id of Cart
2	Customerid	Int	Yes	No	FK	Id of customer
3	Phone	Varchar	No	No		Phone
4	Email	Varchar	No	No		Email
5	Address	Nvarchar	No	No		Address
6	CartStatus	Int	Yes	No	FK	Status of cart

4.2.3.2. Table Cart_status:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Stt id	Int	Yes	No	PK	Id of stt
2	Status	Text	No	No		Status

4.2.3.3. Table Cart_item:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Cart Id	Int	Yes	No	FK	Id of cart
2	Product Id	Int	Yes	No	FK	Id of product
3	Quantity	Int	No	No		Quantity of item
4	Price	Float	No	No		Price item
5	AddedAt	Datetime	No	No		Time added

4.2.4 . Bill design:

Bill	
billId	
cartId	
billStatus	
productTotal	
shippingFee	
totalPrice	
customerName	
phone	
email	
address	
purchasedAt	

Table Bill

bill_status	
sttId	
status	

Table Bill_status

4.2.4.1. Table Bill:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Bill id	Int	Yes	No	PK	Id of bill
2	Cart id	Int	Yes	No	FK	Id of Cart
3	BillStatus	Int	Yes	No	FK	Status of bill
4	ProductTotal	Float	No	No		Total item bought
5	ShippingFee	Float	No	No		Shipping fee
6	TotalPrice	Float	No	No		Total price
7	CustomerName	Nvarchar	No	No		Name of customer
8	Phone	Varchar	No	No		Phone
9	Email	Varchar	No	No		Email
10	Address	Nvarchar	No	No		Address
11	PurchasedAt	Datetime	No	No		Time purchased item

4.2.4.2. Table Bill_status:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Sttid	Int	Yes	No	PK	Id of Stt
2	Status	Text	No	No		Status

4.2.5 Design Idea design:

design_idea	
!	ideaid
!	ideaName
!	description
!	category
!	style
!	image

Table Design idea

design_idea_item	
!	idea_id
!	product_id

Table Design idea item

Style	
!	styleId
!	styleName

Table Style

4.2.5.1. Table Design idea:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Idea id	Int	Yes	No	PK	Id of idea
2	Idea Name	Varchar	No	No		Name of idea
3	Description	Ntext	No	No		Description idea
4	Category	Int	No	No		Category
5	Style	Int	No	No		Style of idea
6	Image	Text	No	No		Image of idea

4.2.5.2. Table Design idea item:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Idea id	Int	Yes	No	PK+FK	Id of idea
2	Product id	Int	Yes	No	PK+FK	Id of product

4.2.5.3. Table Style:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Style id	Int	Yes	No	PK	Id of Style
2	Style Name	Varchar	No	No		Name of style

4.2.6 Feedback Design:

Feedback	
fbId	
customerId	
fbTitle	
fbContent	
createdAt	

Table Feedback

feedback_title	
fbTitleId	
fbTitleDes	
fbNote	

Table Feedback title

4.2.6.1. Table Feedback:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	Fbid	Int	Yes	No	PK	Id of feedback
2	CustomerId	Int	Yes	No	FK	Id of Customer
3	fbTitle	Int	Yes	No	FK	Title of Feedback
4	fbContent	Ntext	No	No		Content of Feedback
5	CreatedAt	Datetime	No	No		Time Feedback Created

4.2.6.2. Table Feedback title:

#	Field name	Type	Unique	Not Null	PK/FK	Notes
1	FbTitleId	Int	Yes	No	PK	Id of feedback title
2	FbTitleDes	Ntext	No	No		Des of FB title
3	FbNote	Ntext	No	Yes		Note

V. Software Test Document:

1. Overall Description:

1.1. Test Model:

We decided to choose Agile Model for testing our project. In the Agile model, requirements and solutions evolve through collaboration between various cross-functional teams. It is also known as an iterative and incremental model. The agile software testing model focus on process adaptability and customer satisfaction by rapid delivery of working software product and by breaking the product into small incremental builds.



Image 1. AGILE Model

1.2. Testing Levels:

The testing levels that we are going to conduct through our project's development are unit testing and system testing, which includes integration testing.

1.3. Testing Types:

Types	Purpose
Functional Testing	Test each function of the software application, by providing appropriate input, verifying the output against the Functional requirements.
Non-Functional Testing	Test for performance, usability, reliability.
UI Testing	<p>Test the aspects of any software that a user will come into contact with.</p> <p>Testing the visual elements to verify that they are functioning according to requirements – in terms of functionality and performance.</p>

2. Test Plan:

2.1. Test Stages:

Type of test	Stage of test				
	Unit	Integration	System	Acceptance	

Function test	X		X	
Non-Function test	X		X	
Performance test				
Security test				
Data integrity test			X	
UI test			X	

2.2. Resources:

a. Human Class:

Worker/Doer	Role	Specific Responsibilities/Comments
PhucDN	Leader	API test, Unit test, Fix bugs
TueNM	Member	API test, Unit test, System test
MinhNAB	Member	API test, Unit Test, System test
KhoaLTD	Member	API test, Unit Test, Fix bugs
AnhHLT	Member	API test, Unit Test, System test

b. Environment:

Purpose	Tool	Provider	Version
API testing	Postman	Post Technologies	9.0.9
Unit Testing	N/A	N/A	N/A
System testing	N/A	N/A	N/A

c. Test Milestones:

Milestone Task	Effort (hours)	Start Date	End Date
API testing	5	07/04/2022	09/04/2022
Unit testing	5	07/04/2022	10/04/2022

Integration testing	5	08/04/2022	10/04/2022
System testing	5	09/04/2022	11/04/2022
Performance testing	5	10/04/2022	11/04/2022

d. Deliverables:

No	Deliverables	Due Date
1	API testing	09/04/2022
2	Unit testing	10/04/2022
3	Integration testing	10/04/2022
4	System testing	11/04/2022
5	Performance testing	11/04/2022

2.3. Test Cases:

All test cases are done and written in the attached file. Please access these files for more information:

- Report 5_Unit Test Case.xlsx
- Report 5_System Test Document.xlsx

VI. Release Package & User Guides:

1. Deliverable Package:

1.1 Source codes & documents:

No	Items	Sub-Items	Type	Version
<i>Code Package</i>				
1	Back End	INTERIOR_WEB.backendapi	Modify	

2	Front End	INTERIOR_WEB.WebApp_Nextjs	Modify	
Database				
1	Capstone	PCIDDB.sql	Modify	1.0.1
Documents				
1	Introduction	Report1_Project Introduction.docx	Modify	1.0.1
2	Management plan	Report2_Project Management Plan.docx	Modify	1.0.1
3	Requirement	Report3_Software Requirement Specification.docx	Modify	1.0.1
4	Software design	Report4_Software Design Document.docx	Modify	1.0.1
5	Testing document	Report5_Test Documentation.docx	Modify	1.0.1
6	User Guides	Report6_Software User Guides.docx	Modify	1.0.1
7	Capstone Project Document	Report7_Final Project Report.docx	Modify	1.0.1

1.2. Known Issues, Limitations & Restrictions:

Because our team focuses on developing the Furniture Shopping System to meet the immediate purpose, the project is still quite limited. The interaction is not high, users when interacting will not be equal to current Shopping Application (such as IKEA, ...).

The functionality is still limited at this time:

- Because our project is still developing, the amount of data is still small, so there are many cases where the search results are incorrect, the content of the posts that users can see is still not diverse.
- Information about the user has not been displayed specifically.
- User information settings are not complete as expected.
- Due to the small-scale project, the features are not as complete and complete as Shopping Applications.

2. Installation Guides:

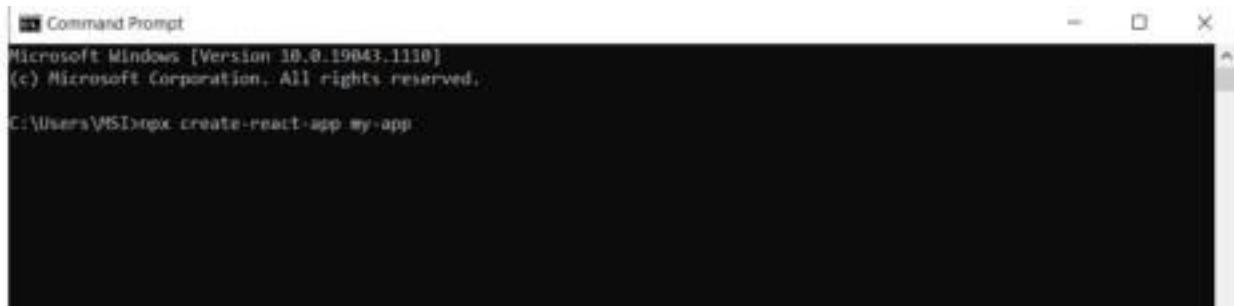
2.1. System Requirements:

Name	Name/Version	Description
Environment	- Java v1.8.0_311 - 29 ReactJS v17.0.1 - Apache Maven v3.6.0 - Apache Tomcat v8.5.34	Specification for developing Website Application
Operating System	Window 10	Operating system and platform for development/production
Modeling Tool	- https://draw.io/ - https://figma.com	Used to design the diagram And UI/UX
IDE	- Visual Studio Code 1.66.0 - Eclipse 2021-06	Code editor tools
Web Browser	Chrome	Testing browser
API Testing	Postman	Completed

2.2. Setup Files:

2.2.1. Setup Environment coding Website:

Step 1: Setup ReactJS project.



```
Command Prompt
Microsoft Windows [Version 10.0.19043.1110]
(c) Microsoft Corporation. All rights reserved.

C:\Users\MSI>nx create-react-app my-app
```

Step 2: Start project.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0, Build 19043.1110]
(c) Microsoft Corporation. All rights reserved.

C:\ProjectFinal\my-app>pm start
```

2.2.2. Setup Environment coding Back-end side:

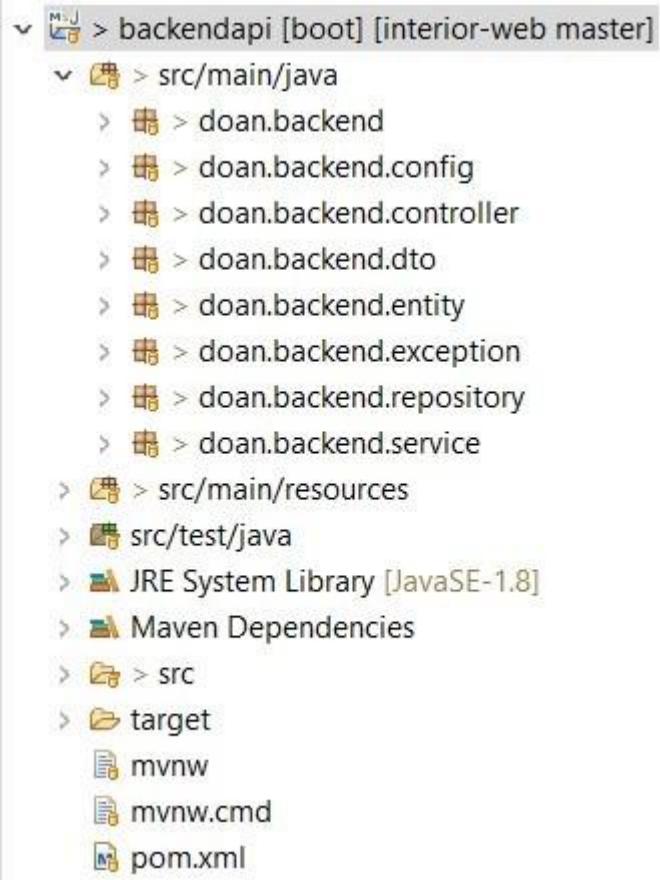
Step 1: Install IDE Eclipse 2021-06.



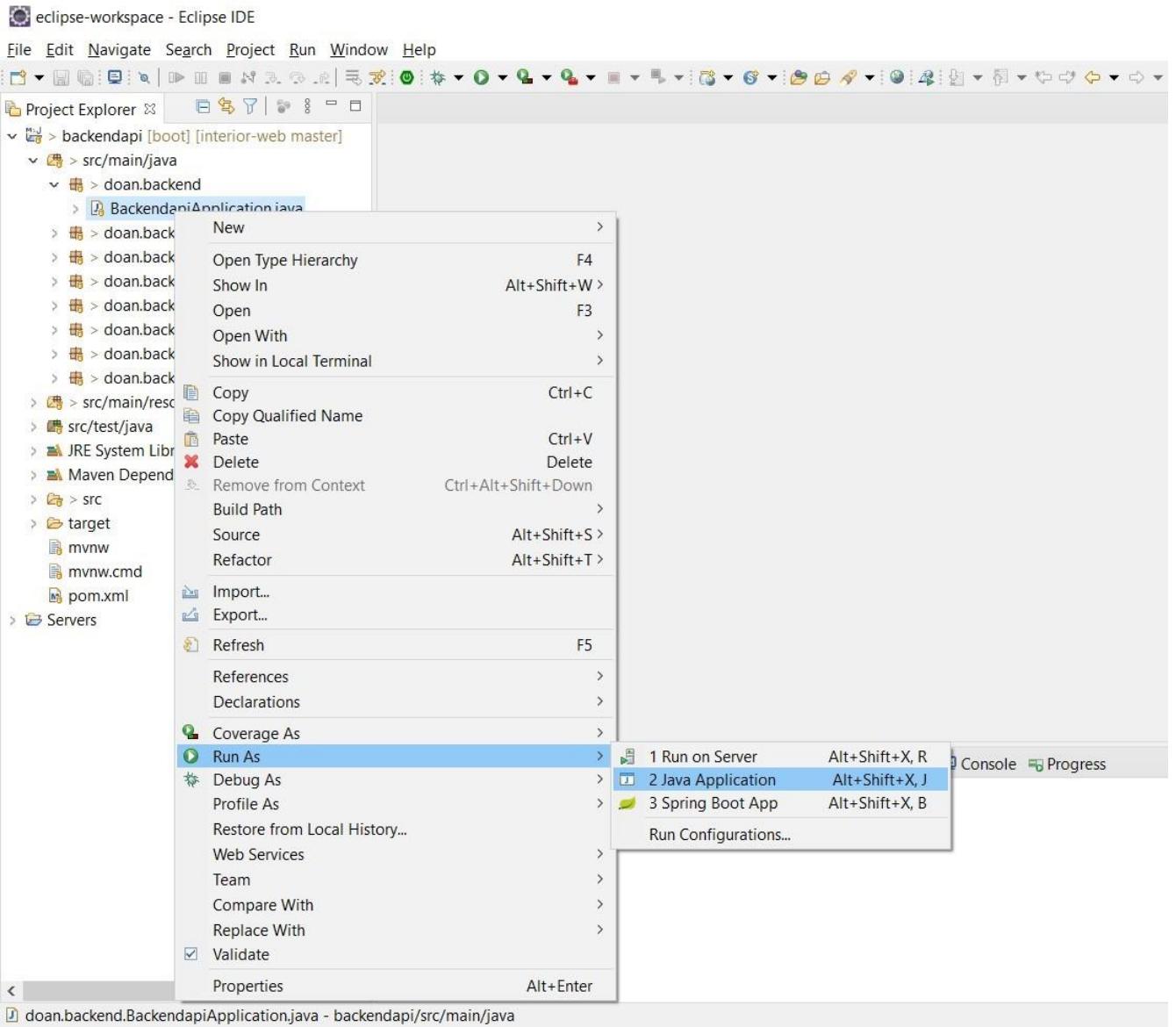
Step 2: Open IDE Eclipse and install Spring 4.0.



Step 3: Create project for back-end developer



Step 4: Start the project.



3. User Manual:

3.1. Terms and definitions:

Term	Definition
Admin	Refers to a Admin of the SPRAKLES system
Staff	Refers to a Staff of the SPRAKLES system
Customer	Refers to a Customer of the SPRAKLES system
Guest	Refers to a Guest of the SPRAKLES system

3.2. System requirements:

- Client: The devices with internet access. - Supported Browsers: Chrome - latest, Firefox - latest, Opera - latest, Edge – 13+, Safari – 9+
- Server: Minimum 2 Core CPU and 4GB RAM if using Docker Host or 4 Core CPU and 8GB if using Kubernetes.

3.3. Application Usage:

3.3.1. Overview:

3.3.2. User manual guide for Admin:

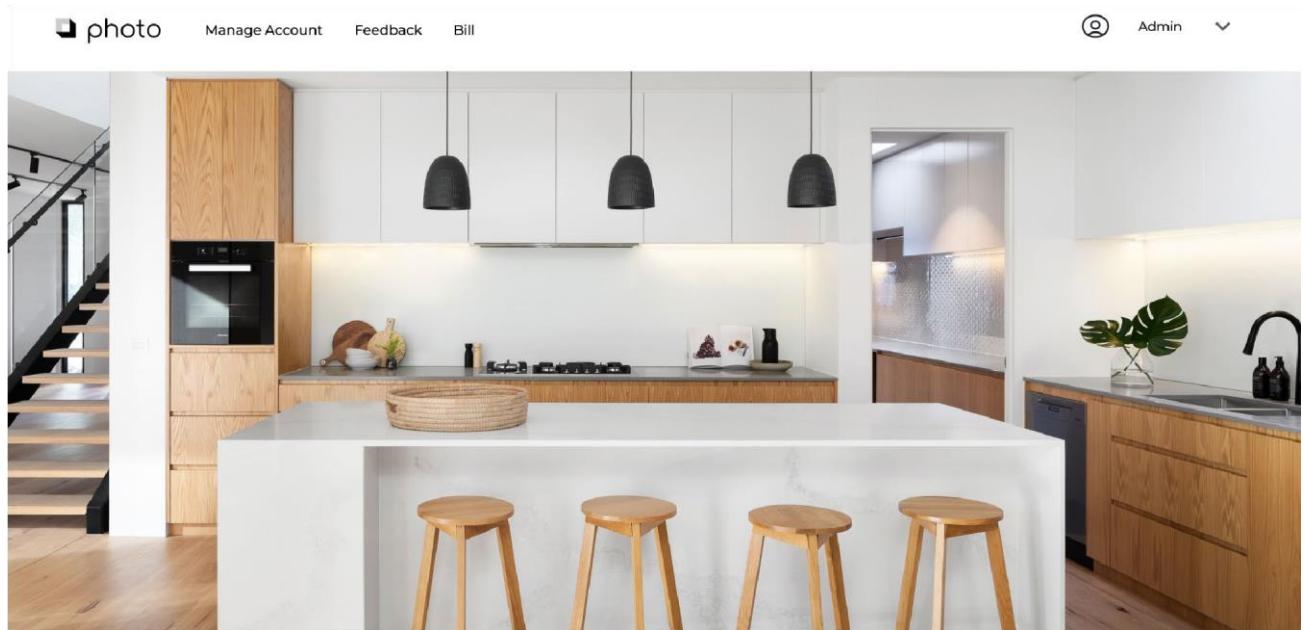
This section is for accounts with the Admin role.

3.3.2.1. Manage Account:

3.3.2.1.1. View personal profile:

This feature is used to view account's information after login into the system successfully. Step

1. Login to the system



Step 2. Click on dropdown icon next to avatar



Manage Account Feedback Bill

Admin

Log out



Step 3. Click "Profile"

3.3.2.1.2. Logout:

This feature is used to logout of the system.

Step 1. Click on dropdown icon next to avatar



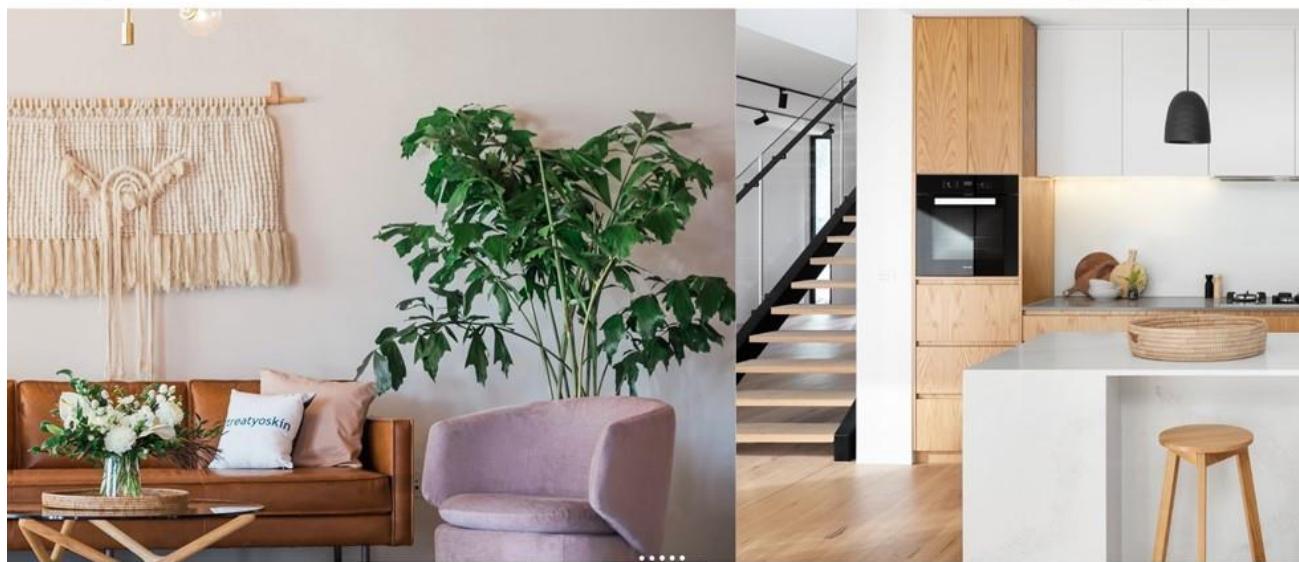
Manage Account Feedback Bill

Admin

Log out



Step 2. Click "Logout"



3.3.2.1.3 View all accounts:

This feature is used to view account's information after login into the system successfully. Step

1. Login to the system

Step 2. Click "Management Account" button

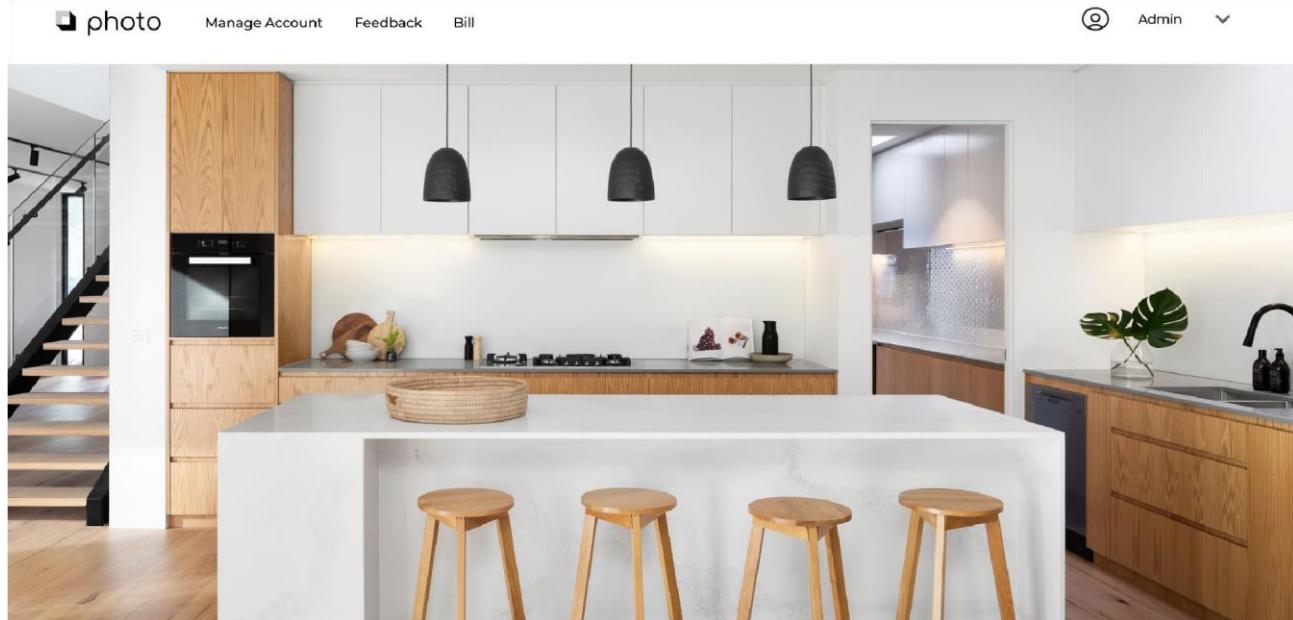
Manage Account

ID	Role	Full Name	Gmail	Phone Number	Address	Manage
1	Staff	Robert Fox	xterris@gmail.com	079 8761 9681	4 Cody Street	View Detail Delete
2	Customer	Ralph Edwards	dric@gmail.com	077 6764 8570	3 Becker Hill	View Detail Delete
3	Customer	Theresa Webb	rrian@yandex.ru	078 8502 2342	4 Cody Alley	View Detail Delete
4	Customer	Darrell Steward	ustil@mail.ru	070 3397 6621	1 Vernon Point	View Detail Delete
5	Staff	Jenny Wilson	cido@gmail.com	077 6140 9077	46 Scoville Plaza	View Detail Delete

3.3.2.1.4 Delete Staff account:

This feature is used to delete a staff account after login into the system successfully. Step

1. Login to the system



Step 2. Click "Management Account" button

Manage Account

ID	Role	Full Name	Gmail	Phone Number	Address	Manage
1	Staff	Robert Fox	xterris@gmail.com	079 8761 9681	4 Cody Street	View Detail Delete
2	Customer	Ralph Edwards	dric@gmail.com	077 6764 8570	3 Becker Hill	View Detail Delete
3	Customer	Theresa Webb	rrian@yandex.ru	078 8502 2342	4 Cody Alley	View Detail Delete
4	Customer	Darrell Steward	ustil@mail.ru	070 3397 6621	1 Vernon Point	View Detail Delete
5	Staff	Jenny Wilson	cido@gmail.com	077 6140 9077	46 Scoville Plaza	View Detail Delete

◀ 1/1 ▶

Step 3. Click "Delete" button of the staff you want to delete

Manage Account

ID	Role	Full Name	Gmail	Phone Number	Address	Manage
1	Staff	Robert Fox	xterris@gmail.com	079 8761 9681	4 Cody Street	View Detail Delete
2	Customer	Ralph Edwards	dric@gmail.com	077 6764 8570	3 Becker Hill	View Detail Delete
3	Customer	Theresa Webb	rrian@yandex.ru	078 8502 2342	4 Cody Alley	View Detail Delete
4	Customer	Darrell Steward	ustil@mail.ru	070 3397 6621	1 Vernon Point	View Detail Delete
5	Staff	Jenny Wilson	cido@gmail.com	077 6140 9077	46 Scoville Plaza	View Detail Delete

◀ 1/1 ▶

3.3.2.1.5 Delete Customer account:

This feature is used to delete a customer account after login into the system successfully.

Step 1. Login to the system



Step 2. Click "Management Account" button

Manage Account

ID	Role	Full Name	Gmail	Phone Number	Address	Manage
1	Staff	Robert Fox	xterris@gmail.com	079 8761 9681	4 Cody Street	View Detail Delete
2	Customer	Ralph Edwards	dric@gmail.com	077 6764 8570	3 Becker Hill	View Detail Delete
3	Customer	Theresa Webb	rrian@yandex.ru	078 8502 2342	4 Cody Alley	View Detail Delete
4	Customer	Darrell Steward	ustil@mail.ru	070 3397 6621	1 Vernon Point	View Detail Delete
5	Staff	Jenny Wilson	cido@gmail.com	077 6140 9077	46 Scoville Plaza	View Detail Delete

< 1 / 1 >

Step 3. Click "Delete" button of the staff you want to delete

Manage Account

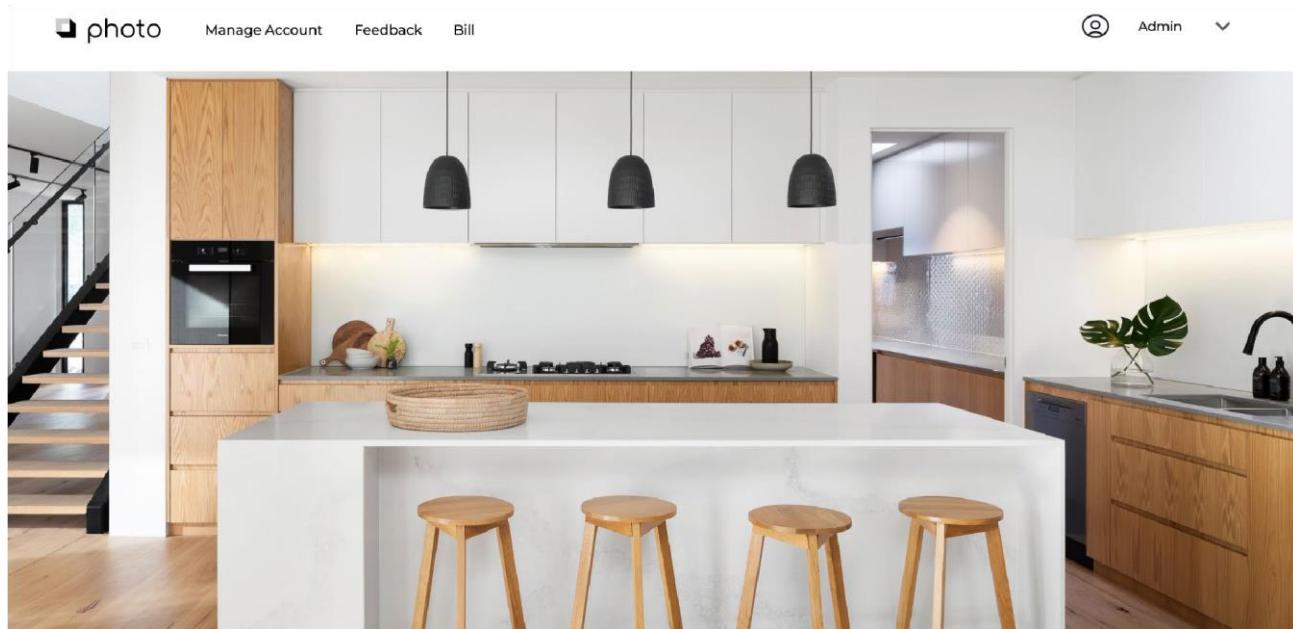
ID	Role	Full Name	Gmail	Phone Number	Address	Manage
1	Staff	Robert Fox	xterris@gmail.com	079 8761 9681	4 Cody Street	View Detail Delete
2	Customer	Ralph Edwards	dric@gmail.com	077 6764 8570	3 Becker Hill	View Detail Delete
3	Customer	Theresa Webb	rrian@yandex.ru	078 8502 2342	4 Cody Alley	View Detail Delete
4	Customer	Darrell Steward	ustil@mail.ru	070 3397 6621	1 Vernon Point	View Detail Delete
5	Staff	Jenny Wilson	cido@gmail.com	077 6140 9077	46 Scoville Plaza	View Detail Delete

3.3.2.2. Manage Bill:

3.3.2.2.1 View all bills:

This feature is used to view all bills after login into the system successfully. Step

1. Login to the system



Step 2. Click "Bill" button

Manage Bill

Search field

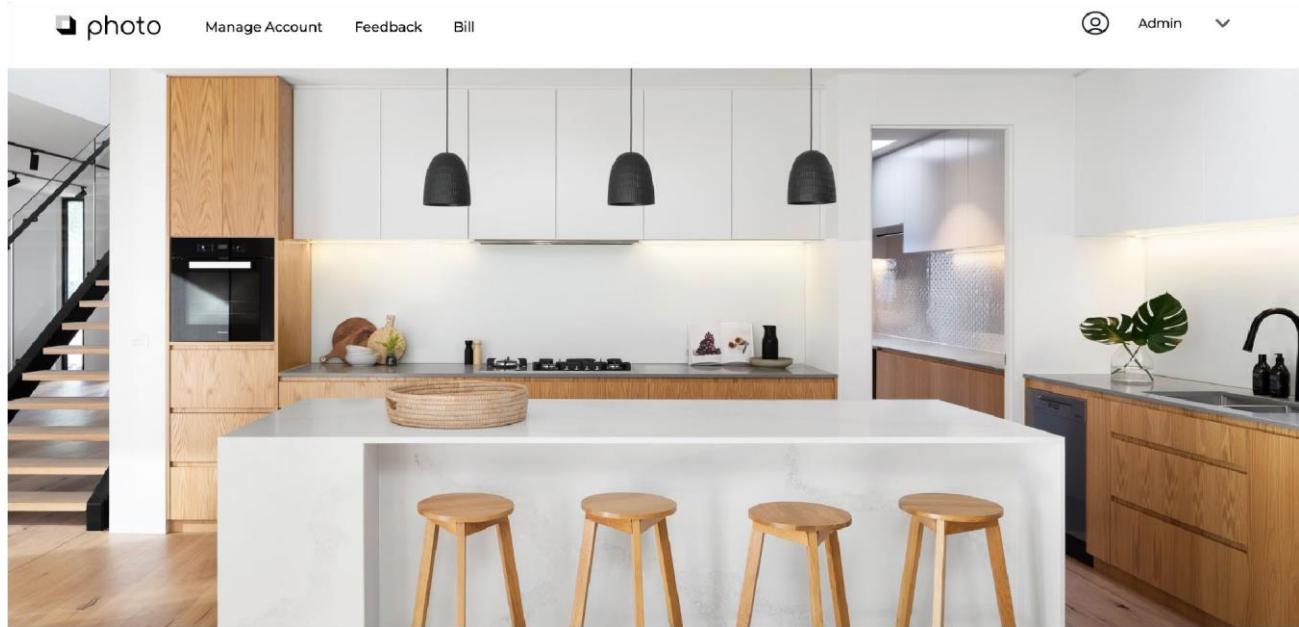
Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

< 1/1 >

3.3.2.2 View bill details:

This feature is used to view a bill's information after login into the system successfully. Step

1. Login to the system



Step 2. Click "Bill" button

Manage Bill

Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

< 1/1 >

Step 3. Click "View Detail" button of the bill you want to view

Bill Detail

Cart ID	Staff	Bill Status	Status
Customer Name	ABC	Products Total	\$\$\$
Phone Number	(307) 555-0133	Shipping Fee	\$\$\$
Gmail	willie.jennings@example.com	Total	\$\$\$
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486		
Time Purchased	Tue 02 Jun, 2020 09:12 am		

3.3.2.2.3 Update bill status:

This feature is used to update a bill's status after login into the system successfully.

Step 1. Login to the system



Step 2. Click "Bill" button

Manage Bill

Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

◀ 1/1 ▶

Step 3. Click "View Detail" button of the bill you want to update

Manage Bill

Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

« 1/1 »

Step 4. Choose a status from the “Bill Status” box

Bill Detail

Cart ID	Staff	Bill Status	Status
Customer Name	ABC	Products Total	Paid
Phone Number	(307) 555-0133	Shipping Fee	Shipping
Gmail	willie.jennings@example.com	Total	Delivered
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486		Returned
Time Purchased	Tue 02 Jun, 2020 09:12 am		Completed

Save

Step 5. Click "Save" button

Bill Detail

Cart ID	Staff	Bill Status	Status 
Customer Name	ABC	Products Total	Paid
Phone Number	(307) 555-0133	Shipping Fee	Shipping
Gmail	willie.jennings@example.com	Total	Delivered
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486		Returned
Time Purchased	Tue 02 Jun, 2020 09:12 am		Completed

3.3.3 User manual guide for Staff:

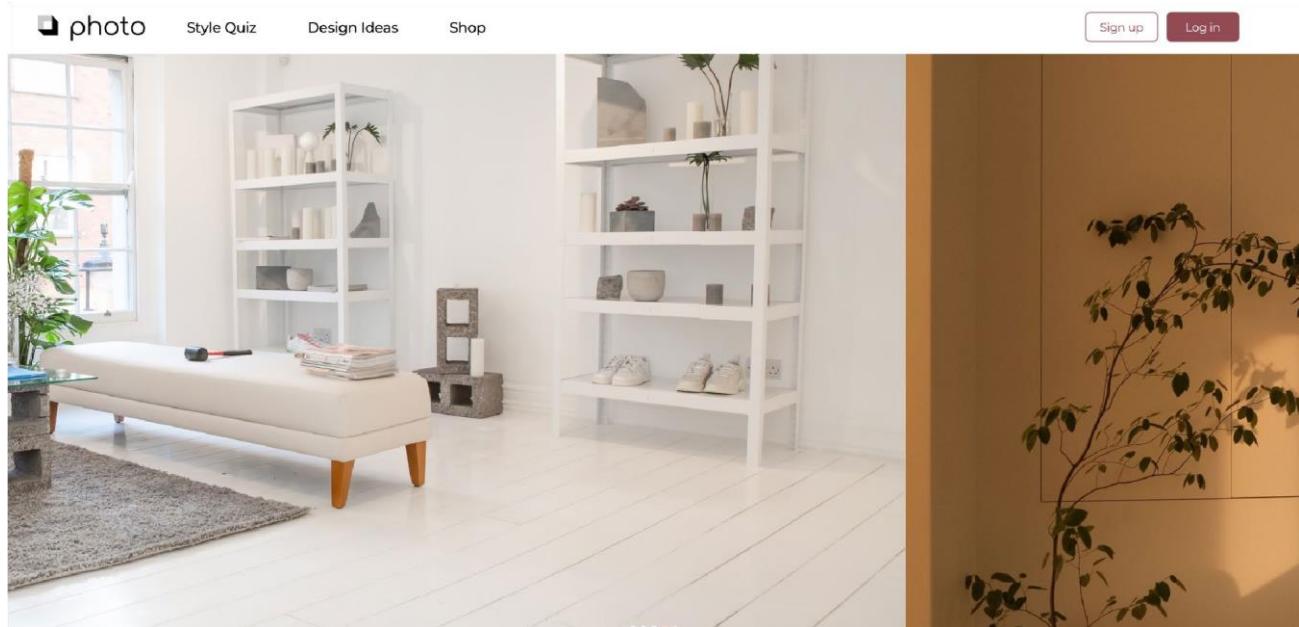
This section is for accounts with the Staff role.

3.3.3.1. Account Management:

3.3.3.1.1 Login:

This feature is used to login to the system.

Step 1. Click "Login"



Step 2. Fill all fields

Welcome Back

Amet, consectetur adipisciing elit, sed do eiusmod tempor

Email

Password



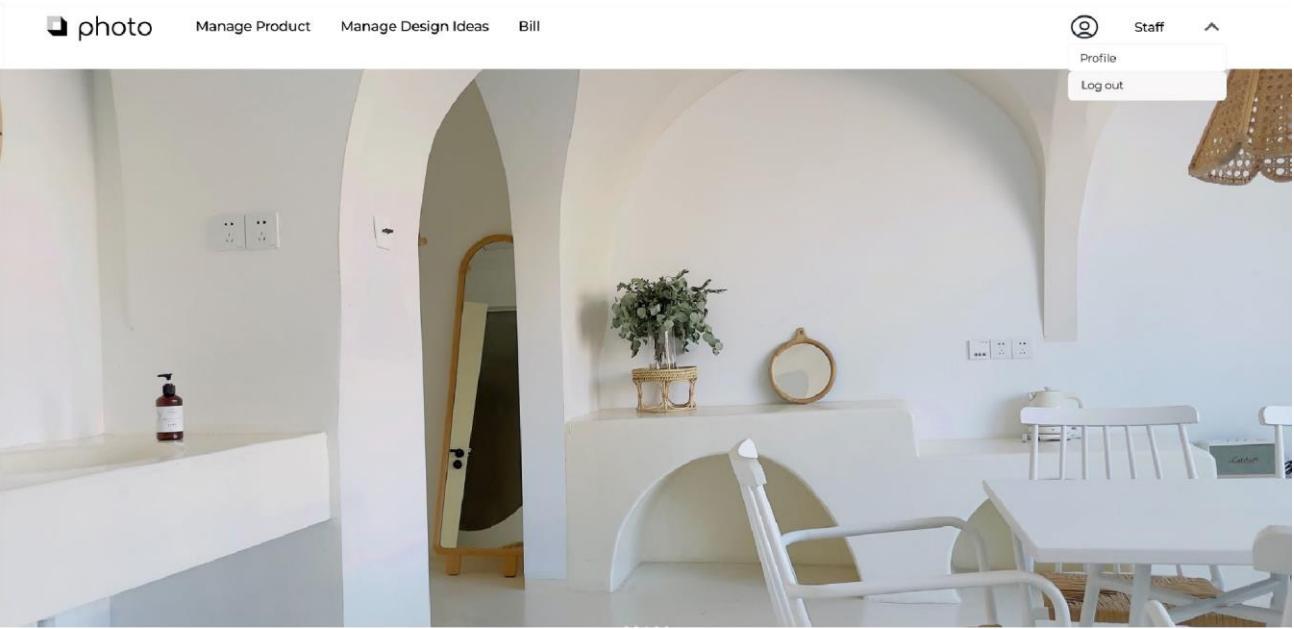
Step 3. Click on "Login" button



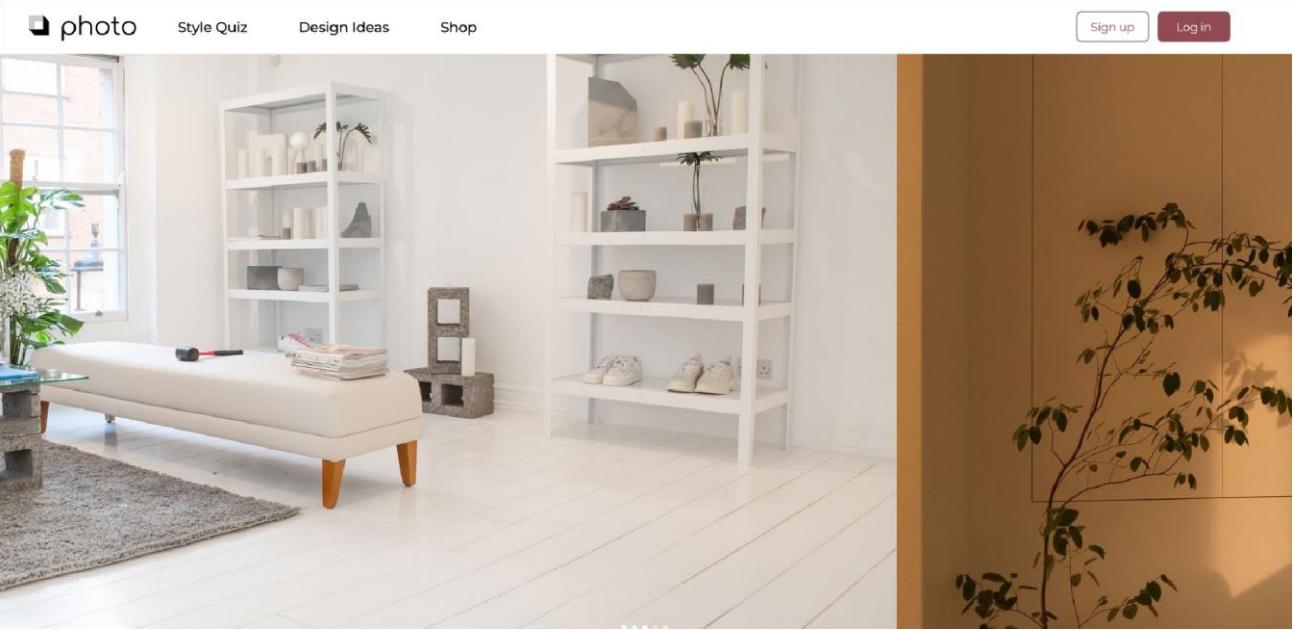
3.3.3.1.3 Logout:

This feature is used to logout of the system.

Step 1. Click on dropdown icon next to avatar



Step 2. Click "Logout"



3.3.3.1.4 View personal profile:

This feature is used to view account's information after login into the system successfully.

Step 1. Login to the system



Manage Product Manage Design Ideas Bill



Staff



Step 2. Click on dropdown icon next to avatar



Manage Product Manage Design Ideas Bill



Staff



Profile

Log out



Step 3. Click "Profile"

Profile Detail

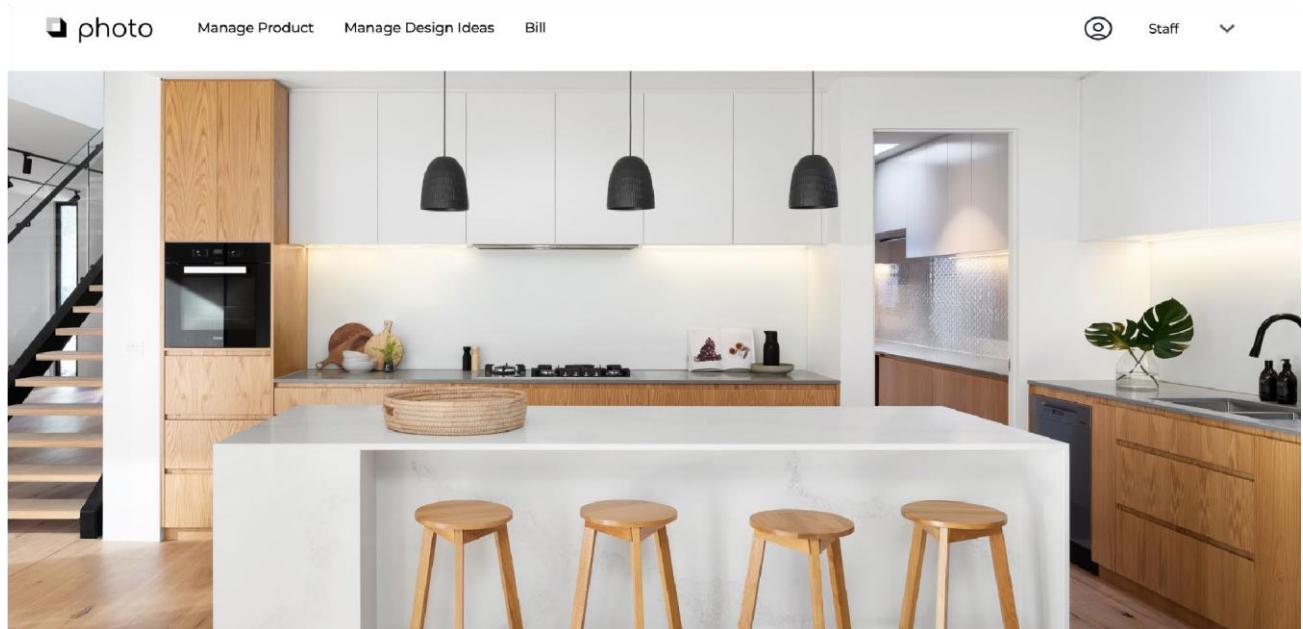
First Name	Staff
Last Name	ABC
Phone Number	(307) 555-0133
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486
Gmail	willie.jennings@example.com
Password	*****

[Edit](#)

3.3.3.1.4 Update personal account:

This feature is used to update account's information after login into the system successfully. Step

1. Login to the system



Step 2. Click on dropdown icon next to avatar



Manage Product Manage Design Ideas Bill

Staff

Profile

Log out



Step 3. Click "Profile"

Profile Detail

First Name

Last Name

Phone Number

Address

Gmail

Password

[Edit](#)

Step 4. Fill all fields

Profile Detail

First Name	Staff
Last Name	ABC
Phone Number	(307) 555-0133
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486
Gmail	willie.jennings@example.com
Password	*****

[Edit](#)

Step 5. Click on "Edit" button

Profile Detail

First Name	Staff
Last Name	ABC
Phone Number	(307) 555-0133
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486
Gmail	willie.jennings@example.com
Password	*****

[Edit](#)

3.3.3.2. Bill Management:

3.3.3.2.1 View all bills:

This feature is used to view all bills after login into the system successfully.

Step 1. Login to the system



Step 2. Click "Bill" button

Manage Bill

Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

< 1/1 >

3.3.3.2.2 View bill details:

This feature is used to view a bill's information after login into the system successfully.

Step 1. Login to the system



Step 2. Click "Bill" button

Manage Bill

Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

◀ 1/1 ▶

Step 3. Click "View Detail" button of the bill you want to view

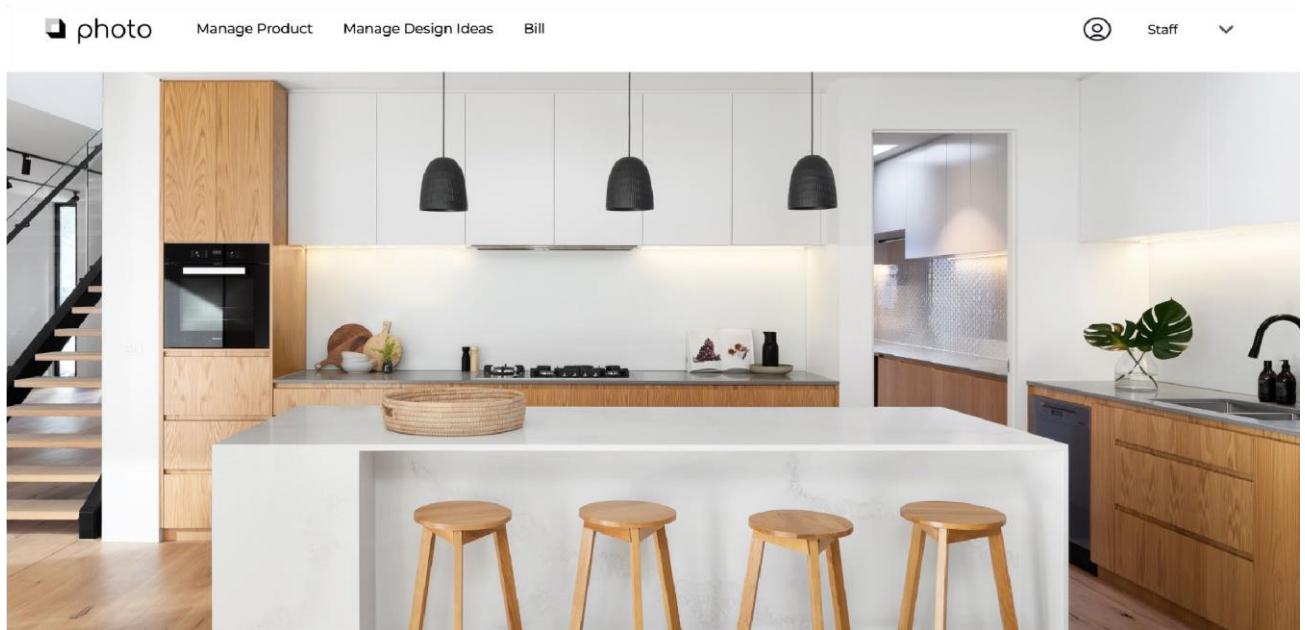
3.3.3.2.3 Update bill status:

This feature is used to update a bill's status after login into the system successfully.

Bill Detail

Cart ID	Staff	Bill Status	Status <input type="button" value="▼"/>
Customer Name	ABC	Shipping Fee	\$\$\$
Phone Number	(307) 555-0133	Total	\$\$\$
Gmail	willie.jennings@example.com		
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486		
Time Purchased	Tue 02 Jun, 2020 09:12 am		

Step 1. Login to the system



Step 2. Click "Bill" button

Manage Bill

Search field

Bill ID	Full Name	Date Time	Phone Number	Bill Status	Bill Total	Manage
1	Darrell Steward	Thu, 9/16/19, 4:42:34 PM	078 2181 5063	Paid	\$1,157.94	View Detail
2	Annette Black	Wed, 6/12/19, 6:03:21 PM	078 2824 3334	Shipping	\$1,873.1	View Detail
3	Robert Fox	Mon, 5/25/19, 2:53:37 PM	070 6302 8446	Shipping	\$1,979.56	View Detail
4	Theresa Webb	Thu, 8/20/20, 3:44:35 PM	077 6140 9077	Cancel	\$60.4	View Detail
5	Albert Flores	Thu, 9/2/19, 4:43:41 PM	070 4099 2620	Shipping	\$1,623.46	View Detail

« 1 / 1 »

Step 3. Click "View Detail" button of the bill you want to update

Bill Detail

Cart ID	<input type="text" value="Staff"/>	Bill Status	<input type="button" value="Status ▾"/>
Customer Name	<input type="text" value="ABC"/>	Shipping Fee	<input type="text" value="\$\$\$"/>
Phone Number	<input type="text" value="(307) 555-0133"/>	Total	<input type="text" value="\$\$\$"/>
Gmail	<input type="text" value="willie.jennings@example.com"/>		
Address	<input type="text" value="2972 Westheimer Rd. Santa Ana, Illinois 85486"/>		
Time Purchased	<input type="text" value="Tue 02 Jun, 2020 09:12 am"/>		

Step 4. Choose a status from the Bill Status box

Bill Detail

Cart ID	Staff	Bill Status	Status ^
Customer Name	ABC	Products Total	Paid
Phone Number	(307) 555-0133	Shipping Fee	Shipping
Gmail	willie.jennings@example.com	Total	Delivered
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486		Returned
Time Purchased	Tue 02 Jun, 2020 09:12 am		Completed

Save

Step 5. Click "Save" button

Bill Detail

Cart ID	Staff	Bill Status	Status ▼
Customer Name	ABC	Shipping Fee	\$\$\$
Phone Number	(307) 555-0133	Total	\$\$\$
Gmail	willie.jennings@example.com		
Address	2972 Westheimer Rd. Santa Ana, Illinois 85486		
Time Purchased	Tue 02 Jun, 2020 09:12 am		

Save

3.3.3.3 Product Management:

3.3.3.3.1 Create products:

This feature is used to create a product after login into the system successfully.



Step 1. Login to the system

Step 2. Click "Manager Product" button

Shop

xxxx items

Search field

Search

All

Living Room

Bed Room

Dining Room

Kid's Room

Nursery

Color: All

Sort by:

Add new prod

Step 3. Click "Add new product" button

3.3.3.3.2 Update products:

Create Product



Product Name

Product Quantity

Product Price

Product Color

Country of Origin

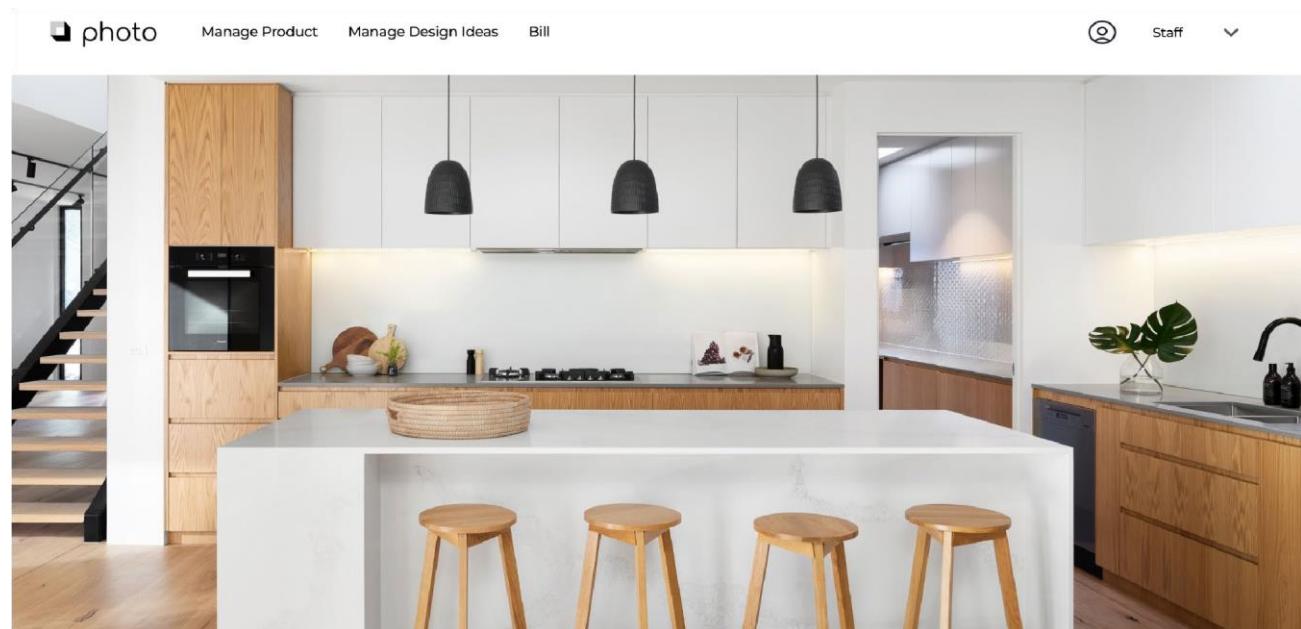
Description

Change Picture

This form allows users to input product details such as name, quantity, price, color, origin, and a descriptive text, while also providing a placeholder for a product image.

This feature is used to update a product's information after login into the system successfully.

Step 1. Login to the system



Step 2. Click "Manager Product" button

Step 3. Click "Edit" button on a product

Shop

xxxx items

Search field

Search

All

Living Room

Bed Room

Dining Room

Kid's Room

Nursery

Color: All

Sort by:

Add new prod

Color: All

Sort by:

Add new product



Lorem ipsum dolor sit amet,

Price

Delete

Edit



Lorem ipsum dolor sit amet,

Price

Delete

Edit



Lorem ipsum dolor sit amet,

Price

Delete

Edit



Lorem ipsum dolor sit amet,

Price

Delete

Edit



Step 4. Fill all fields

Step 5. Click "Save" button



[Change Picture](#)

Product Name	California Modern Dream Home
Product Quantity	20
Product Price	1000\$
Product Color	Red, Blue, Nature
Country of Origin	USA
Description	Lore ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor

[Cancel](#)
Save



[Change Picture](#)

Product Name	California Modern Dream Home
Product Quantity	20
Product Price	1000\$
Product Color	Red, Blue, Nature
Country of Origin	USA
Description	Lore ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor

[Cancel](#)
Save

3.3.3.3 Delete products:

This feature is used to delete a product after login into the system successfully.

Step 1. Login to the system

Step 2. Click "Manager Product" button

Color: All Sort by: [Add new product](#)

 <p> Lorem ipsum dolor sit amet, Price Delete Edit</p>	 <p> Lorem ipsum dolor sit amet, Price Delete Edit</p>	 <p> Lorem ipsum dolor sit amet, Price Delete Edit</p>	 <p> Lorem ipsum dolor sit amet, Price Delete Edit</p>
 <p> </p>	 <p> </p>	 <p> </p>	 <p> </p>

Step 3. Click "Delete" button

3.3.3.3.4 View products list:

This feature is used to view a list of products after login into the system successfully.

Step 1. Login to the system



Manage Product Manage Design Ideas Bill



Staff



Step 2. Click "Manager Product" button

3.3.3.4. Design Ideas:

3.3.3.4.1. View design ideas:

This feature is used to view a list of design ideas after login into the system successfully.

Step 1. Login to the system



Manage Product Manage Design Ideas Bill



Staff



Step 2. Click on "Manage Design Ideas"

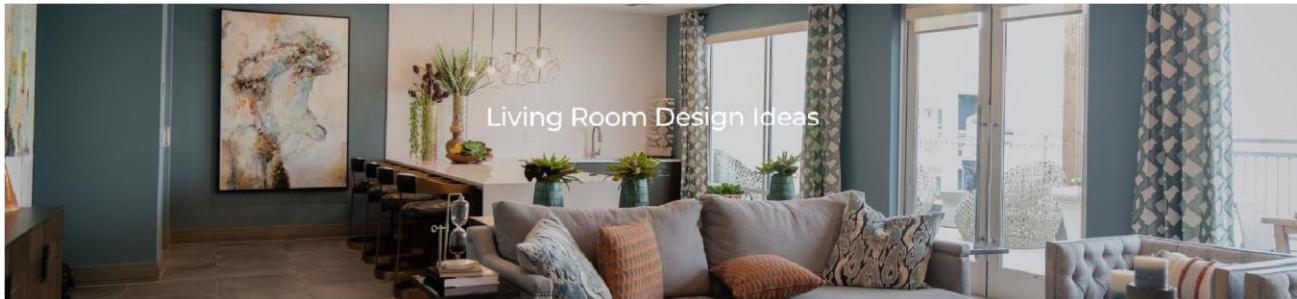
Step 3. Choose a room in room category



Select Room Category



Step 4. Choose a room style



Living rooms by style



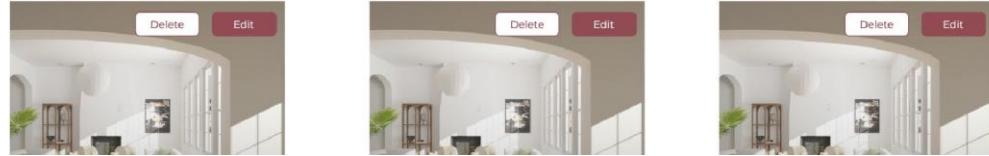
Modern Living Room Ideas

Mid-Century Living Room Ideas

Rustic Living Room Ideas

Eclectic Living Room Ideas

Step 5. Choose an design idea

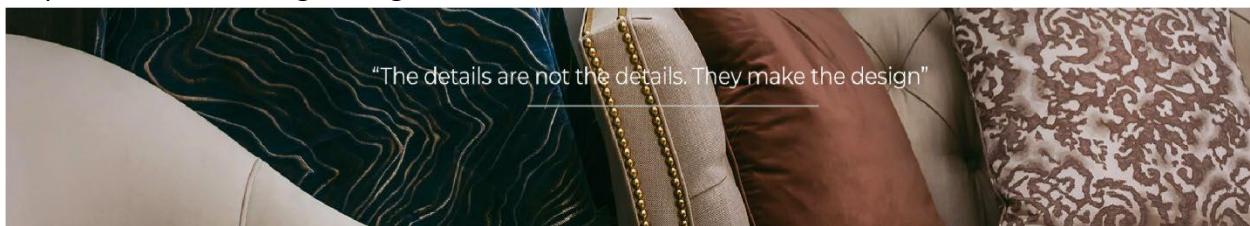


3.3.3.4.2 Create new design ideas:

This feature is used to create a new design after login into the system successfully.

Step 1. Login to the system

Step 2. Click on "Manage Design Ideas"



Select Room Category



Living Room



Bed Room



Dining Room



Office Room



Kid's Room



Nursey Room

Step 3. Choose a room in room category

Step 4. Choose a room style



Living rooms by style



Modern Living Room Ideas



Mid-Century Living Room Ideas



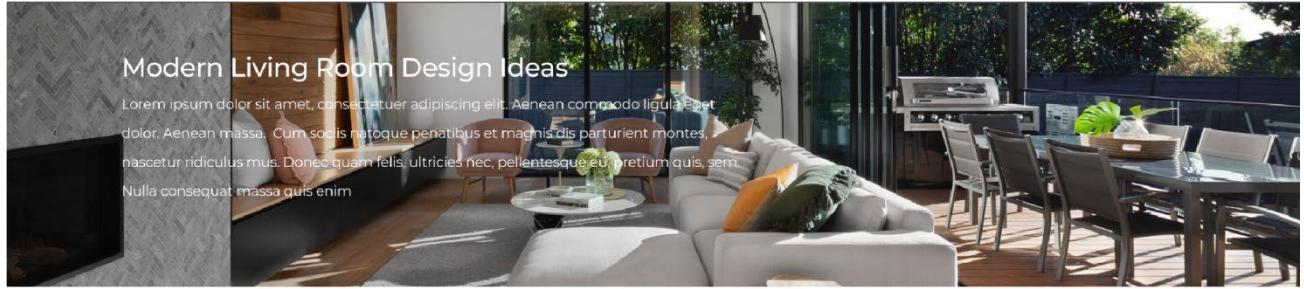
Rustic Living Room Ideas



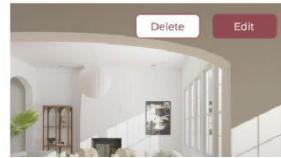
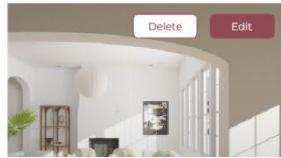
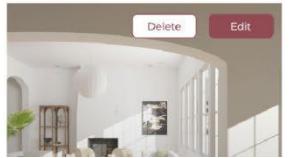
Eclectic Living Room Ideas



Step 5. Click "Add new idea"



Add new Idea



Step 6. Fill all the required fields

Create New Idea



Upload Picture

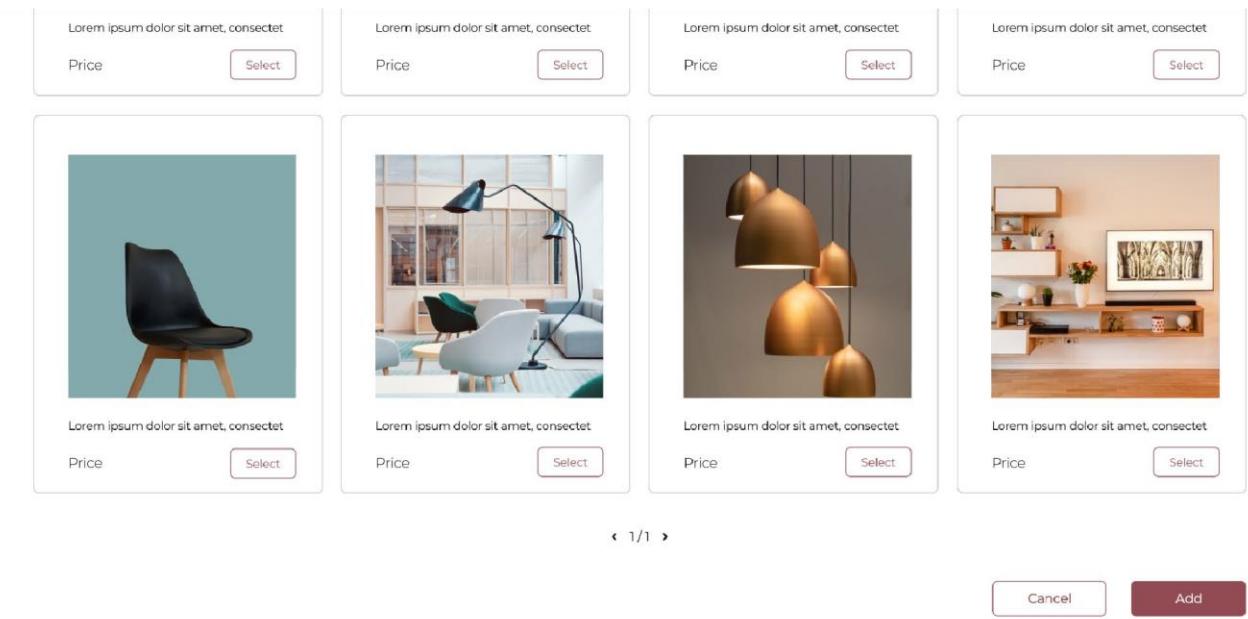
Ideas Name

California Modern Dream Home

Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor

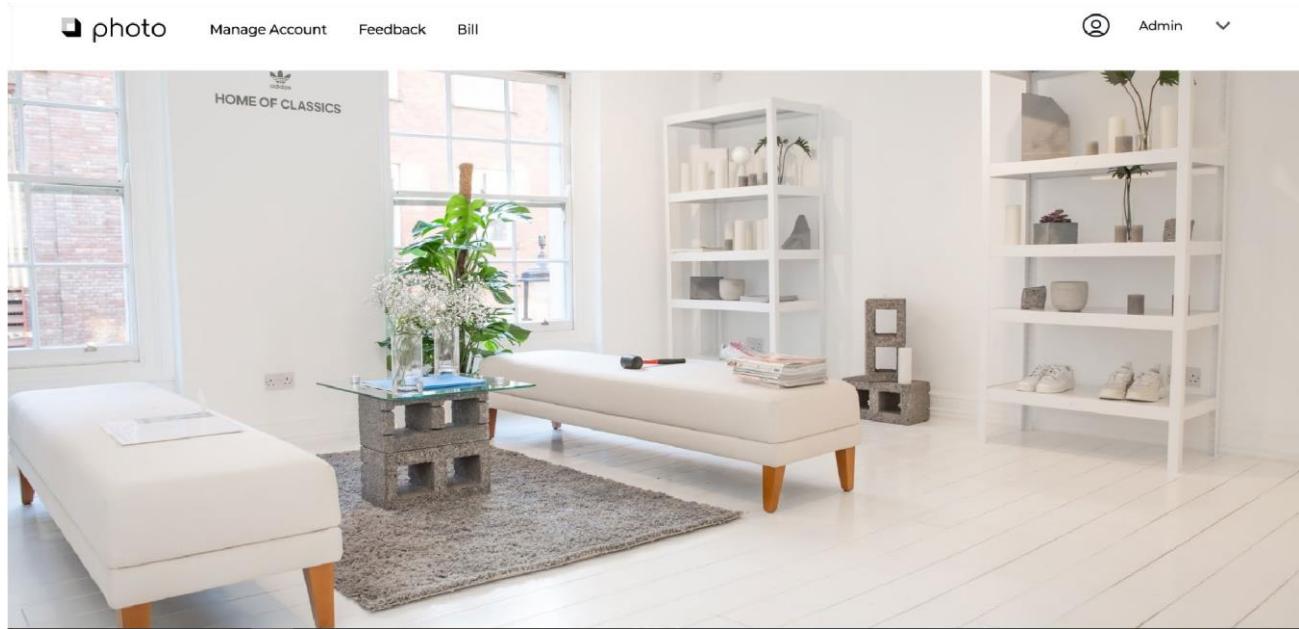
Step 7. Click "Add"



3.3.3.4.2 Update design ideas:

This feature is used to update a design after login into the system successfully. Step

1. Login to the system



Step 2. Click on "Manage Design Ideas"

Step 3. Choose a room in room category



Living rooms by style



Modern Living Room Ideas



Mid-Century Living Room Ideas



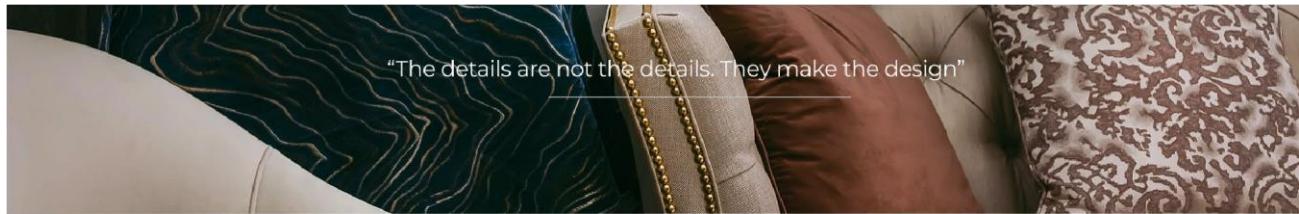
Rustic Living Room Ideas



Eclectic Living Room Ideas



Step 4. Choose a room style



Select Room Category



Living Room



Bed Room



Dining Room



Office Room



Kid's Room

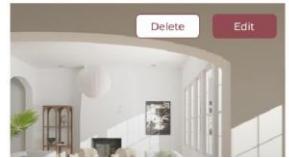
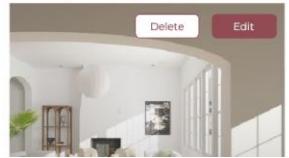
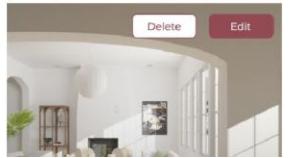


Nursery Room

Step 5. Click "Edit" on an idea



Add new Idea



Step 6. Fill all fields

Edit Design Ideas



Ideas Name

California Modern Dream Home

Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor

Cancel

Save

Change Picture



Select Room Category



Living Room



Bed Room



Dining Room



Office Room



Kid's Room



Nursery Room

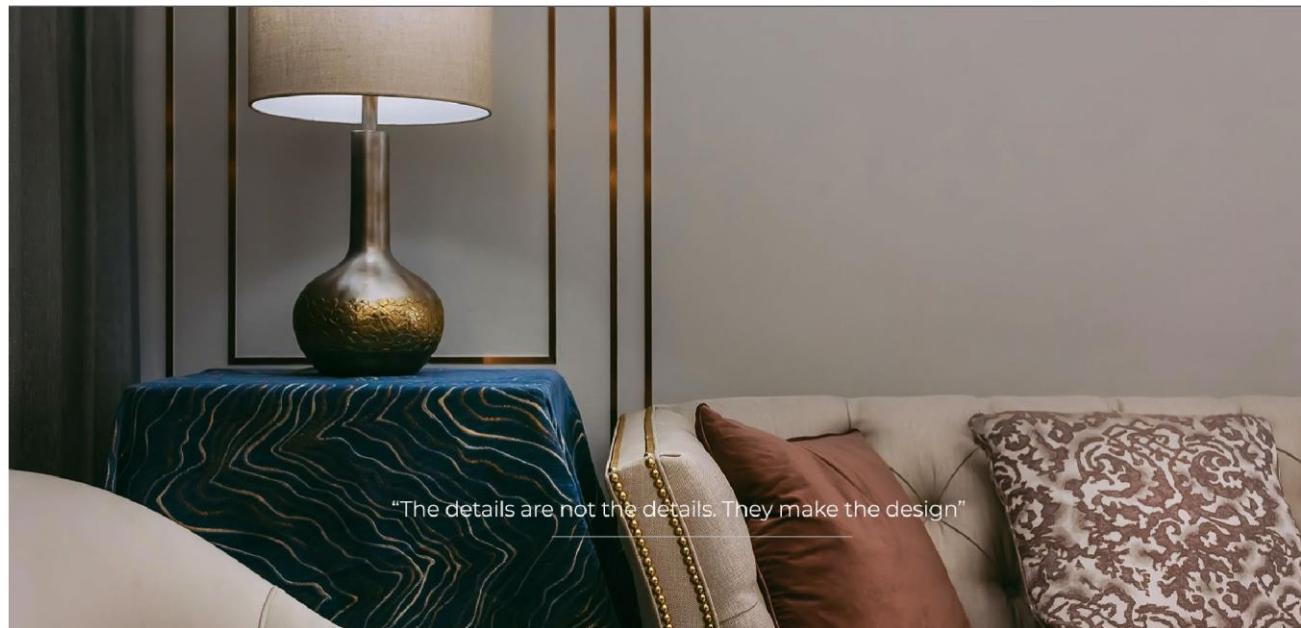
Step 7. Click "Save"

3.3.3.4.2 Delete design ideas:

This feature is used to delete a design after login into the system successfully.

Step 1. Login to the system

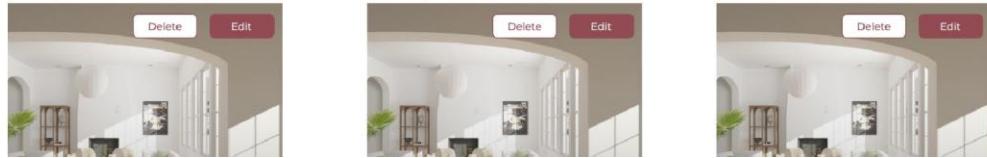
Step 2. Click on "Manage Design Ideas"



Step 3. Choose a room in room category Step 4. Choose a room style



Add new Idea



Step 5. Click "Delete" on an Idea. Confirm Popup appears Step 6. Click OK

3.3.4. User manual guide for Customer:

This section is for accounts with the Customer role

3.3.4.1. Log in:

This feature is used to log in to the website. The target user of this feature is all customers in the system.

Step 1: Click the “Log in” button in the upper right corner of the web.

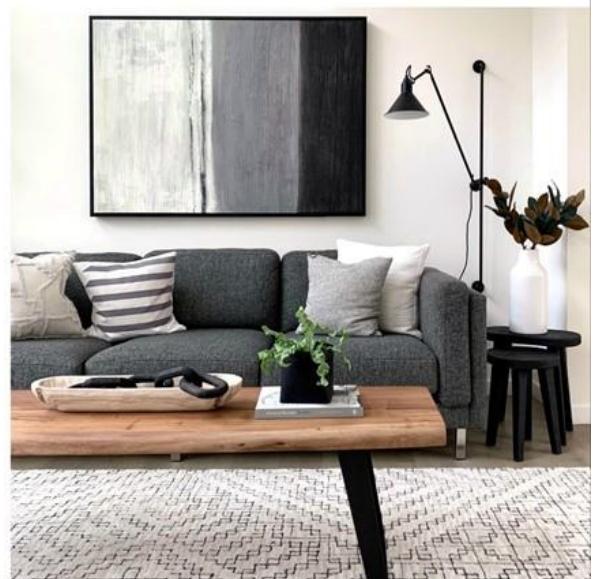
Welcome Back

Amet, consectetur adipiscing elit, sed do eiusmod tempor

Email

Password

[Login](#)



Step 2: Enter your email and password into the corresponding fields.

Step 3: Click the “Login” button.

3.3.4.2. View Personal Information:

This feature is used to view your own personal information.

Step 1: Click the down arrow in the upper right corner of the web, a function list will appear.

The screenshot shows a modern kitchen interior with light-colored wood cabinets, a white island, and pendant lights. In the top right corner, a user profile menu is open, showing options: Customer, Profile, Order History, and Log out.

Step 2: Click the “Profile” button, the Profile Details page will appear.

Profile Detail

First Name	<input type="text" value="Staff"/>
Last Name	<input type="text" value="ABC"/>
Phone Number	<input type="text" value="(307) 555-0133"/>
Address	<input type="text" value="2972 Westheimer Rd. Santa Ana, Illinois 85486"/>
Gmail	<input type="text" value="willie.jennings@example.com"/>
Password	<input type="password" value="*****"/>

[Edit](#)

3.3.4.3. Update Personal Information / Change Password:

This feature is used to update your personal information or change your password.

Step 1: Go to Profile Details page in 3.3.4.2.

Step 2: Enter the information you want to edit or change the password.

Edit Profile

Full Name	Email
<input type="text" value="Jacob"/>	<input type="text" value="nvt.isst.nute@gmail.com"/>
Mobile phone number	
<input type="text" value="(405) 555-0128"/>	
Address	
<input type="text" value="2715 Ash Dr. San Jose, South Dakota 83475"/>	
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

Change Password

Input old password	
<input type="password" value="*****"/>	
New password	Re-type password
<input type="password"/>	<input type="password"/>
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

Step 3: Click the “Save” button on the corresponding method.

3.3.4.4. View Products:

This feature is used to show you the products in the website.

Step 1: Click the “Shop” button on the main page. A list of products will appear.



Style Quiz Design Ideas Shop

Customer ^

Profile

Order History

Log out



Style Quiz Design Ideas Shop

Customer ^



Shop

xxxx items

Search field

Search

All

Living Room

Bed Room

Dining Room

Kid's Room

Nursery

Color: All

Sort by:



Lorem ipsum dolor sit amet.

Price



Lorem ipsum dolor sit amet.

Price



Lorem ipsum dolor sit amet.

Price



Lorem ipsum dolor sit amet.

Price



Step 2: Click into a random product to view its details.



Style Quiz Design Ideas Shop

Customer



Office Elegant Nero Noce Leather Chair

In stock 10

\$505.99

Arrives in 3-7 business days from ship date

1

Add to Cart

Dimensions

38.98"H x 25.6"W x 26.97"L

Product details

Color: Blue, Natural

Material: 100% Handspun Cotton

Care Instructions: Spot Clean / Dry Clean Only

Assembly Required: No

Country of Origin: Viet Nam

Overview

Loreum ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec,

Shipping & returns

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Sparkle



Not Copyright 2022 - Team Flame

Home Home

Style Quiz Style Quiz

Design Ideas Design Ideas

Shop Shop

3.3.4.5. Search products:

This feature is used to search products in the shop.

Step 1: Go to the Shop page from 3.3.4.4.

Step 2: Type in the text you want to search, a list of searched items will appear.

Shop

xxxx items

Search field

Search

All

Living Room

Bed Room

Dining Room

Kid's Room

Nursery

Color: All

Sort by:



Lorem ipsum dolor sit amet.

Price



Lorem ipsum dolor sit amet.

Price



Lorem ipsum dolor sit amet.

Price



Lorem ipsum dolor sit amet.

Price



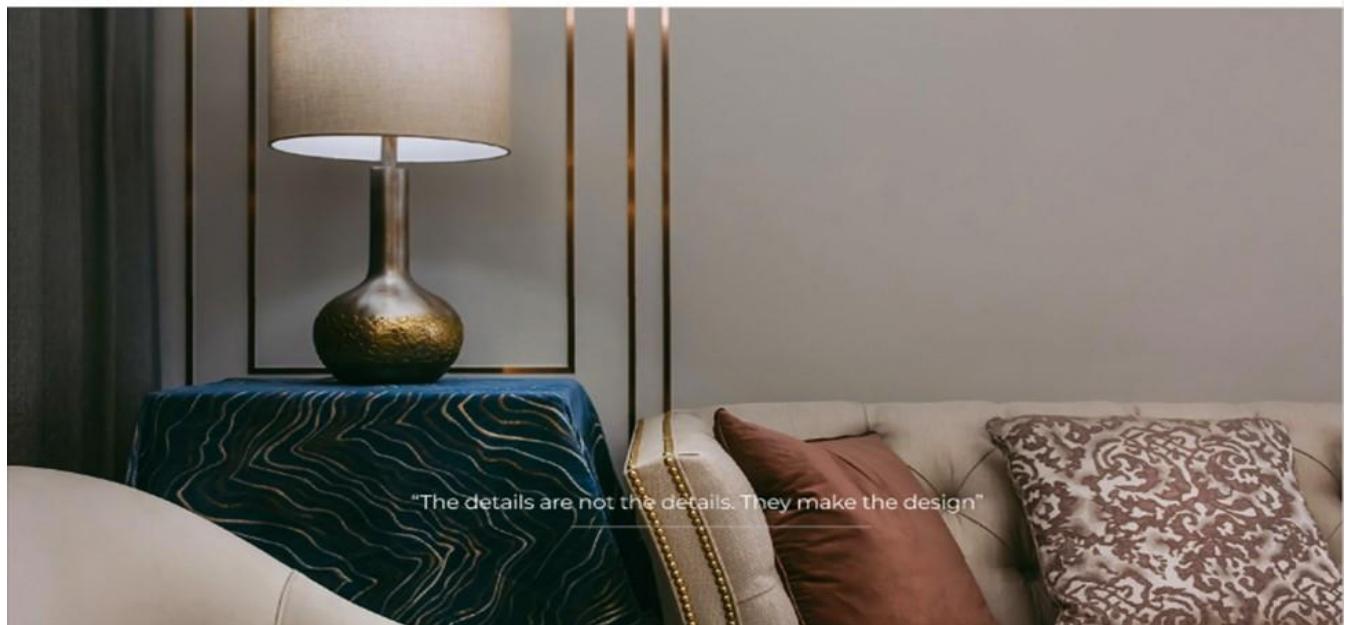
3.3.4.6. View Design Idea:

This feature is used to view pre-made design ideas for your desired room.

Step 1: Click the “Design Ideas” button in the main page. A list of rooms will appear.



Step 2: Choose a room you want to see the design ideas of. A list of styles will appear.



Select Room Category



Living Room



Bed Room



Dining Room



Office Room



Kid's Room



Nursery Room

Step 3: Choose a style of that room you want to see. After this, a list of design ideas will appear.



Living rooms by style



Modern Living Room Ideas



Mid-Century Living Room Ideas



Rustic Living Room Ideas



Eclectic Living Room Ideas



Coastal Living Room Ideas



Industrial Living Room Ideas



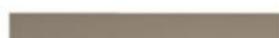
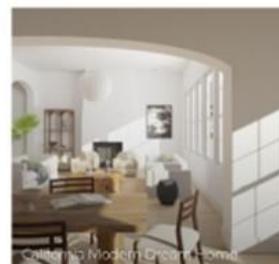
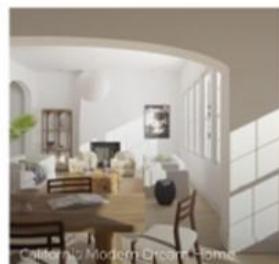
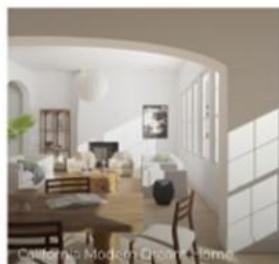
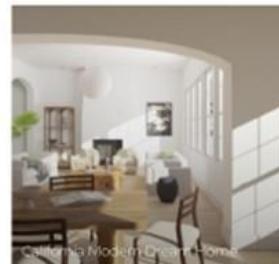
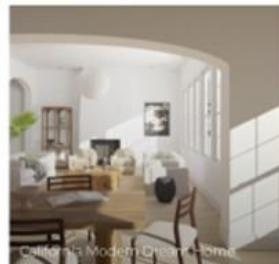
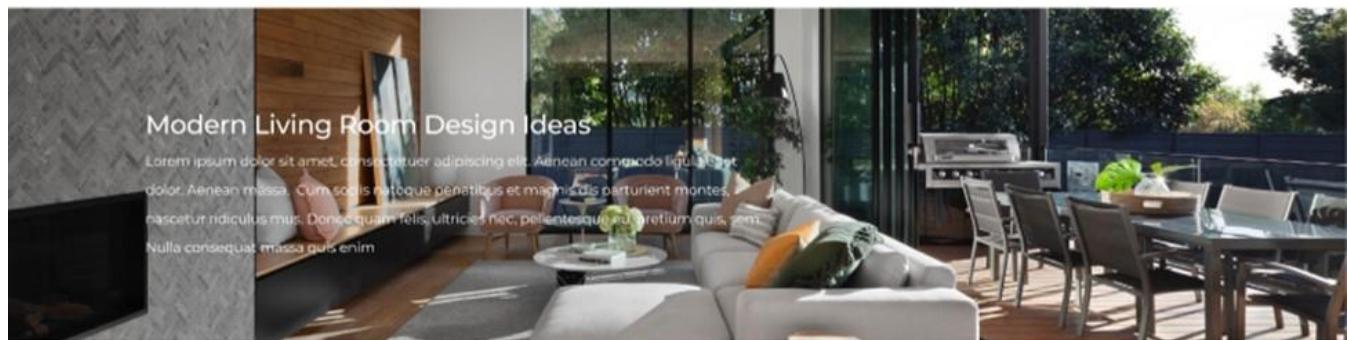
Traditional Living Room Ideas



Glam Living Room Ideas



Step 4: Choose an idea of your liking. The details of the idea will appear.

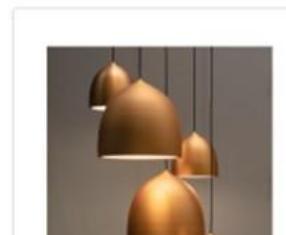
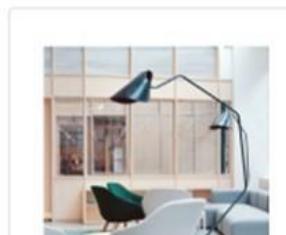


California Modern Dream Home

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis p



Furniture and decor in this room



3.3.4.7. Take a Style Quiz:

This feature is used to determine your favorable room styles by the quiz.

Step 1: Click the “Style Quiz” button in the main page.

 photo

Style Quiz

Design Ideas

Shop

 Customer

Profile

Order History

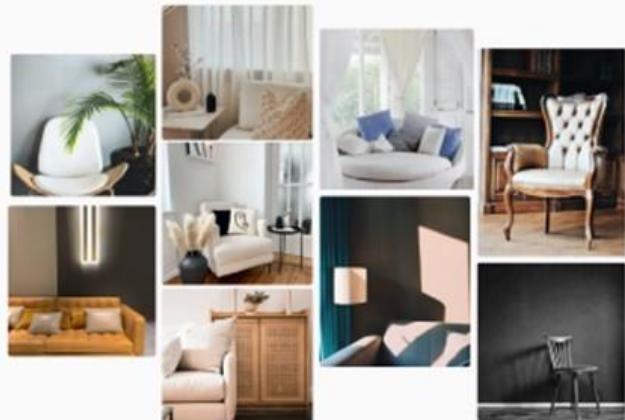
Log out



Step 2: Click “Take the Quiz” button to continue.

What Is My Interior Design Style?

[Take the Quiz](#)



Our Approach: One Style Doesn't Fit All

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Step 3: A list of questions will be shown. Please answer them by the instructions we gave you.



Which 3 rooms appeal to you most?

Show us what your dream home look like



0 / 3 Selected

Step 4: After the final question, the result style will appear. You can take the quiz again by click on “Take The Quiz Again” line.

Your style is

Mid-Century Chic

You love the idea of livable spaces, but crave a bit more drama. Your style is distinctly yours, combining Mid-Century aesthetics, like warm wood tones, with bold statement pieces, like a patterned rug.



Not sure if this is the right style of you? Take The Quiz Again!

3.3.4.8. Manage your Cart:

Step 1: To add a product to your cart, go to the product information page in 3.3.4.4.

Step 2: Choose the quantity and then click on the “Add to Cart” button.



photo

Style Quiz

Design Ideas

Shop



Customer



Office Elegant Nero Noce Leather Chair

In stock: 10

\$505.99

Arrives in 3-7 business days from ship date

1 ▾

Add to Cart

Dimensions

38.98" H x 25.6" W x 26.97" L

Product details

Color: Blue, Natural

Material: 100% Handspun Cotton

Care Instructions: Spot Clean / Dry Clean Only

Assembly Required: No

Country of Origin: Viet Nam

Overview

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Shipping & returns

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Sparkle



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Step 3: To view your cart, click the Cart icon in the upper right corner.

X

Your Shopping Cart

Your Order

Item	Quantity	Price
 Office Elegant Nero Noce Leather Chair Size 25.6 x 38.98 inches	1 ▾	505.99
Subtotal		505.99
Estimate Shipping		5.95
Estimated Total		511.94

Shipping Address

Name:	Customer Name
Phone Number	(123)-456-789
Gmail	John@gmail.com
Address	6391 Delaware 10299

Shipping Address

Payment Method: COD

Checkout

Step 4: You can edit the product's quantity in the cart by adjusting the quantity or delete it from the cart.

3.3.4.9. Make a payment:

This feature is used to complete the checkout process.

Step 1: Go to your shopping cart by clicking on the Cart icon in 3.3.4.8.

Step 2: Click the “Checkout” button after reviewing your cart.

X

Your Shopping Cart

Your Order

Item	Quantity	Price
 Office Elegant Nero Noce Leather Chair Size 25.6 x 38.98 inches	1 ▾	505.99
Subtotal		505.99
Estimate Shipping		5.95
Estimated Total		511.94

Shipping Address

Name:	Customer Name
Phone Number	(123)-456-789
Gmail	John@gmail.com
Address	6391 Delaware 10299

Shipping Address

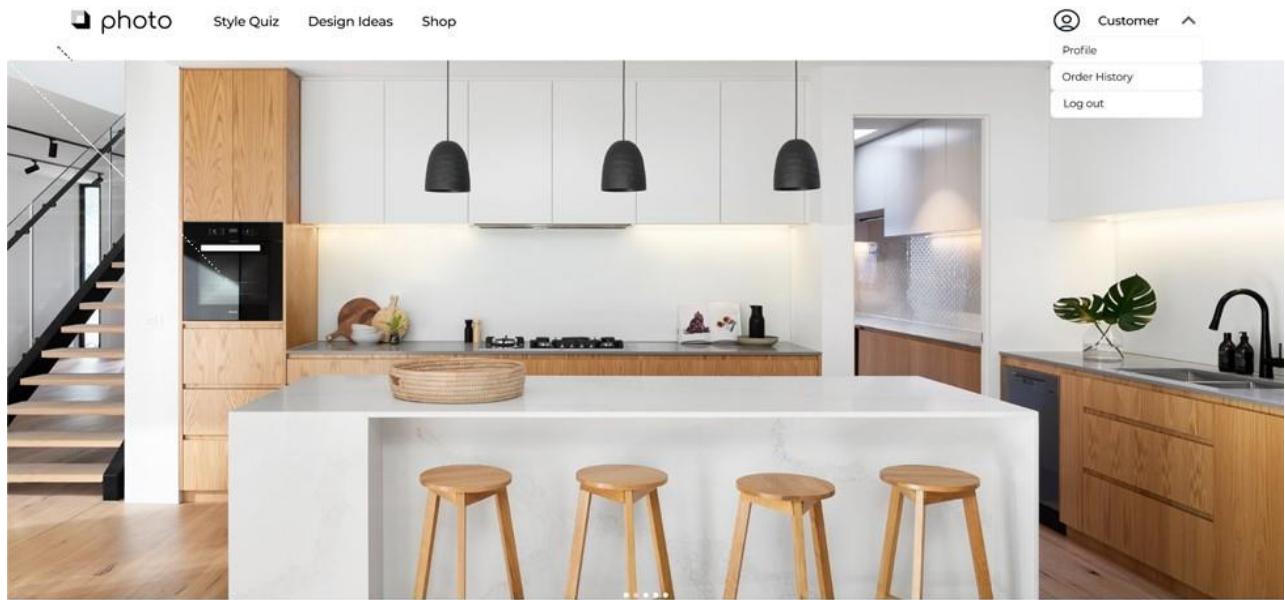
Payment Method: COD

Checkout

3.3.4.10. View Bills History & Cancel Bills:

This feature is used to view all your bills history and cancel your bills.

Step 1: Click the down arrow in the upper right corner of the web, a function list will appear.



Step 2: Click the “Order History” button. A list of your order history will appear.

A screenshot of a web page titled "Your Order History". The page displays a single order under the heading "Your Order". The order details are as follows:

Item	Quantity	Total Price
Office Elegant Nero Noce Leather Chair Size 25.6 x 38.98 inches	1	\$505.99

Below the order details, there are additional status fields:

Estimate Shipping	\$5.95
Bill Status	Paid
Estimated Total	\$511.94

At the bottom right of the page, there is a button labeled "Cancel Order".

Step 3: If you want to cancel an order, click the “Cancel Order” button.

Note: You can only cancel the bills that are not having the Shipping and Delivered status.

3.3.4.11. Make a Feedback:

This feature is used to give the Admin a feedback. It could be about the product, the customer service, or the delivering issues, etc.

Step 1: Click the “Feedback” button in the main page.

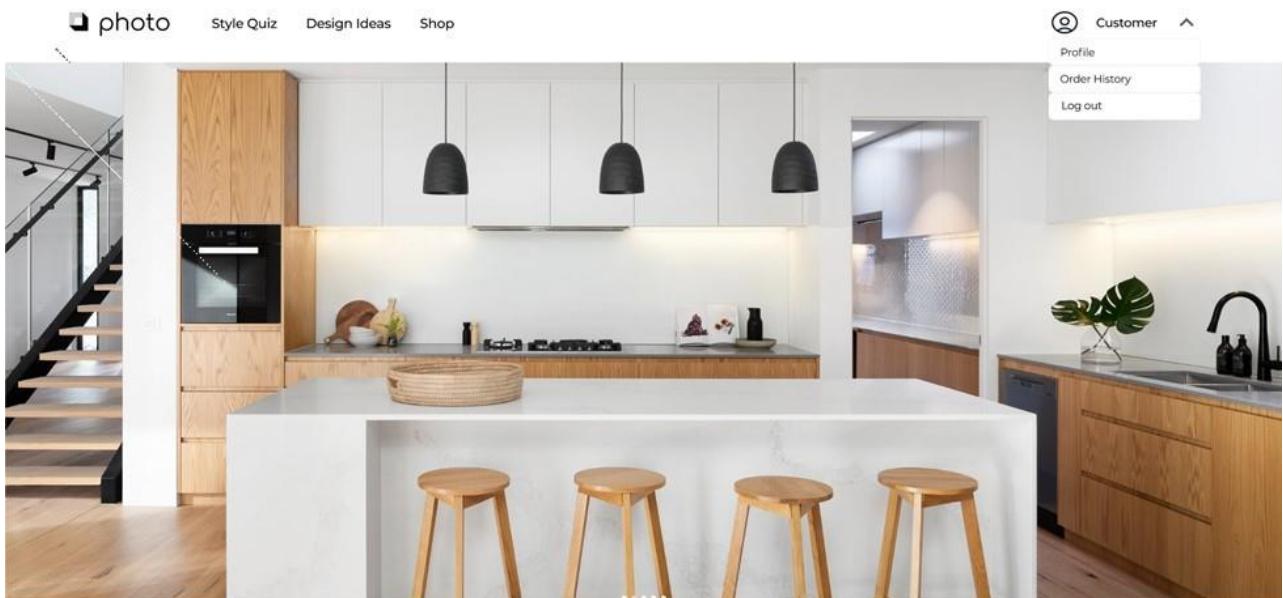
Step 2: Write your feedback in the text area.

Step 3: Click the “Send” button.

3.3.4.12. Log out:

This feature is used to log out the website.

Step 1: Click the down arrow in the upper right corner of the web, a function list will appear.



Step 2: Click the “Log out” button.

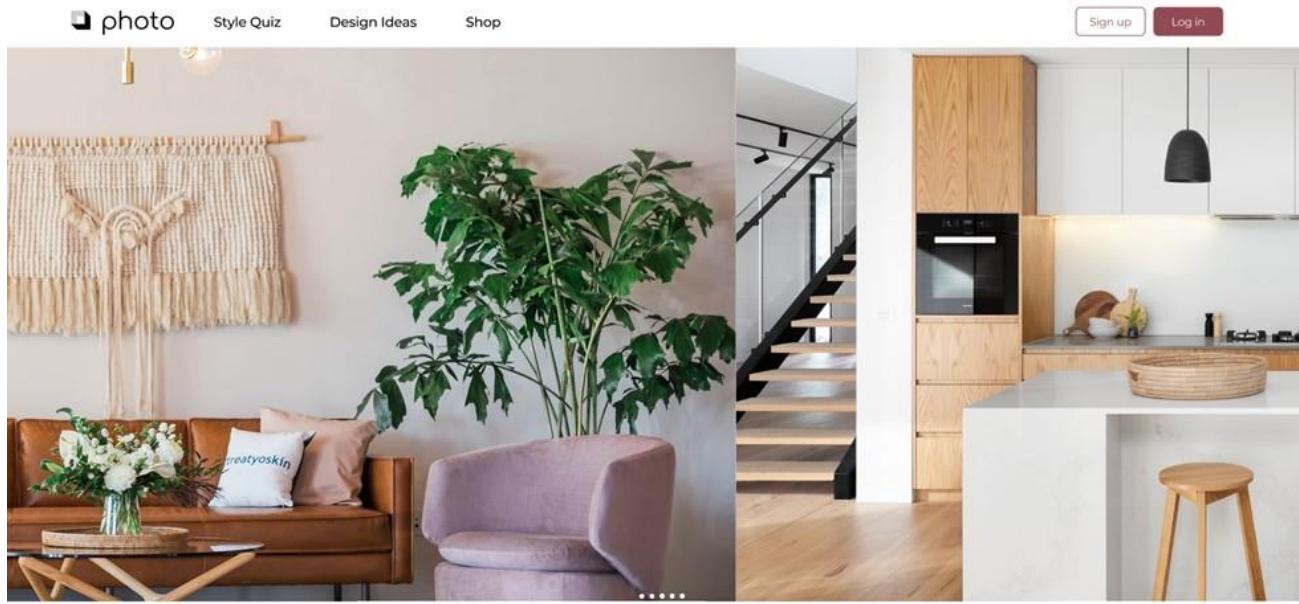
3.3.5. User manual guide for Guest:

This section is for people who don't need to sign in.

3.3.5.1. Register an account:

This function is used to register a Customer account, to allow you to use the related functions in the website.

Step 1: Click the “Sign up” button in the main page.



Step 2: Fill all the fields in the Sign up form.

photo
Style Quiz
Design Ideas
Shop

Sign up
Log in

Welcome To Sparkle

Amet, consectetur adipiscing elit, sed do eiusmod tempor

Email

Phone Number

Address

Password

Confirm Password

Sign up

Step 3: Click the “Sign up” button. Make sure to check if all the fields are valid.

3.3.5.2. View Products:

This feature is used to show you the products in the website.

Please check 3.3.4.4 for more information!

3.3.5.3. Search Products:

This feature is used to search products in the shop.

Please check 3.3.4.5 for more information!

3.3.5.4. View Design Ideas:

This feature is used to view pre-made design ideas for your desired room.

Please check 3.3.4.6 for more information!

3.3.5.5. Take a Style Quiz:

This feature is used to determine your favorable room styles by the quiz.

Please check 3.3.4.7 for more information!

Reference source: Tools ,Libraries and Framework used in the project:

[1] **ReactJS** [Online] Available: <https://reactjs.org/tutorial/tutorial.html>

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