

GROUP-PROJECT DOCUMENT FRONT SHEET

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GIFTS SHOP

Documentation

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1. Problem Definition

1.1 Problem Abstraction

In the 4.0 technology era, the demand for online shopping is high and online shopping will help people save a lot of time compared to going to the store. So our team decided to build a website where people would get all the information about the different products available to them easily. Gifts Online is a project we created to sell gifts so that buyers can buy directly on the website without having to go to the store. My team advertises by distributing leaflets, television advertisements to attract people to our website selling gifts.

Frames and a good logo should be used to create the Home Page. Gift item descriptions and photographs should be included on the home page. The site should have a menu with options for a quick introduction to the many gift products available, the shop's location, and any other information needed.

Product information should be presented in one of two ways: Information should be available by category, with the user being able to click on a certain category and see all of the products connected to that category with complete information. For example, a category could be "mugs," "cards," "bracelets," and so on, with appropriate sub-categories created. And product information should be organized by brand name. For example, if a user wishes to see only "Hallmark" products or any other company's products, he or she can click on a link/button/menu and see only those products.

If a user picks a brand, a list of products associated with that brand is provided. Different product qualities should be summarized on the Website page alongside the product, but full features should be saved in individual Word documents that may be downloaded or accessed by the User who desires to examine them. The customer should also be able to compare products from other brands, both similar and dissimilar.

1.2. The Current System

Currently, our business relies solely on flyers and advertisements distributed by local residents, with no technological assistance, in addition to a complex description of the disease that is obstructing daily life as well as economic activity. As a result, introducing the product to the market became much more difficult for us, resulting in sales losses. Customers may find it difficult to contact us for information about their purchased goods and how to assemble it. Some clients who are unable to visit the store anticipate receiving advice from our personnel without having to visit the store. After some research, we want to upgrade our system and expand our business.

We needed a new system that would enable customers to shop online. And now, as the Covid-19 outbreak spreads over the world, people are being advised to stay at home if they do not need to go out, making it even more difficult for our firm to make profits and interact with our clients if they have any problems and are unsure what to do. As a result, an internet presence is unquestionably required for us to improve our business and better connect with clients.

1.3. The Proposed System

Because of its accessibility, simplicity, utility, and taste, our upcoming system will undoubtedly be an online website. A website that will allow customers to purchase our gift items online while still being aware of their quality. Furthermore, users can provide feedback on a product or a store via the website rather than going to the store. Customers will save time and money by being able to quickly see the types of products they want, as well as see feedback from other shoppers about the product quality and the shop's reputation, all with just one click. System allow customers to be able to navigate the website easily. A website, on the other hand, is a good way for us to introduce new gift products in the future, as well as a strategy for expanding our company's business market to countries all over the world.

Website will be able to display a large selection of products and categories. Not only that, but our customers can create an account that allows them to add and remove items from their shopping cart. System allow administrator to make modifications to the product. Most importantly, admin has the ability to perform CRUD operations. Admins will have access to the database and will be able to create, read, update, and delete gift products, categories, guest accounts, and more.

1.3.1. Boundaries of the System

Because we will be selling gift items, our target customers will be 15 and over. All of our customers will have access to the website and will be able to view all of the gifts. We intend to make the website available worldwide, but we first want to test it in Vietnam. The online store is accessible to all Vietnamese citizens via the internet. Furthermore, if everything is in order, we can make improvements to our website before releasing it to the public.

1.3.2. Hardware and Software Requirements

Hardware

- CPU: AMD Ryzen 5 4600H
- RAM: 16.0 Gigabytes minimum
- Internet connection
- HDD: 512gb

Software

- Notepad/HTML editor
- PHPstorm
- Google Chrome/Microsoft Edge/Mozilla Firefox (web browser)

2. Customer Requirements Specification

2.1. Users of the System

Gift online is born towards convenience in terms of time for users of it especially, office workers who like to shop online but do not have too much travel time. Students can use it to shop conveniently without traveling too much and solve problems for many students from far away.

- Client/Customer: are people who want to buy products online on the company's website. When accessing the website, the client/customer is allowed to find out and view product information that interests them before deciding whether to buy that product or not.

- Admin: are the people who have access to the backend, change the content of the website, change the product which is called: CURD (Create, Update, Read, Delete products)

2.2. User requirements

Administrator

Category

- As an admin, I want to create/add categories so that I can save new categories of products to the database of the website.
- As an admin, I want to view all the categories the website so that I can make changes for each product.
- As an admin, I want to update categories (Type) so that I can make the list of products available more appealing as well as to contain a variety of categories.
- As an admin, I want to delete categories so that when a category is out-of-products, I could delete it from the database to prevent confusion from the customers.

Product

- As an admin, I want to create/add products (Names, Images, Prices, colors, weight, material) so that I can inform our customers of our newest products as well as to save products to the database.
- As an admin, I want to view all the products on the website so that I can make changes for each product.
- As an admin, I want to search for products to find products based on keywords or based on type of gifts so that when I don't remember a product name, I can search for those gifts.
- As an admin, I want to view products by category so that I can easily find the product. I can look in the product catalogue to find the product I need to update.
- As an admin, I want to view the details of each product so that I can make changes for it.

- As an admin, I want to be able to update products (Price, Name, Images, Description) so that I can keep them up-to-date.
- As an admin, I want to delete products so when a product is no longer available, I could delete them so that they wouldn't be shown on the website.

Login/logout

- As an admin, I want to be able to login/logout of the restricted site of the website using my admin account.

Customer

- As an admin, I want to read customer's information on the website so that I can account management.
- As an admin, I want to update customer's information on the website so that I can change information when a customer wants to edit their account.
- As an admin, I want to delete customer's information on the website so that I can manage account when detecting that the customer's account has an error or the customer does not use that account anymore

Customer

View level 1

- As a customer, I want to view the home page that includes all of the products, contact them on the website so that I can properly use the website.
- As a customer, I want to search for products to find products so that I can find them based on keywords or based on type of products.
- As a customer, I want to view all the products with representative photos on the website so that I can choose the products I like.

View level 2

- As a customer, I want to view the details of each product to understand the quality so that the items that I need to buy would meet my requirements: image, size, weight, origin.
- As a customer, I want to view products by category (type) so that when I don't remember the name of the product I'm looking for, I can look in the product catalogue to find the product I need to buy.
- As a customer, I want to be able to view the “About Us” page so that I could look for the website’s contact information as well as the background of the website.

Sign-up

- As a customer, I want to register/login information on the website so that I can buy gifts.

3. System Designs

3.1 Functional requirements/ System functionalities

F1: The system shall let admin create/add categories (name, description), so that admin can save new categories of products to the database of the website.

F2: The system shall let admin view all the categories on the website so that admin can make changes for each product.

F3: The system shall let admin update categories (name, description) so that admin can make the list of products available more appealing as well as to contain a variety of categories.

F4: The system shall let admin delete categories so that when a category is out-of-products, admin could delete it from the database to prevent confusion from the customers.

F5: The system shall let admin create/add products (Names, Images, Prices, Type, Description) so that system can inform customers of newest products as well as to save products to the database.

F6: The system shall let admin view all the products on the website so that system can make changes for each product.

F7: The system shall let admin find products based on keywords or based on type of gifts so that when system does not remember a product name, the system can search for those gifts.

F8: The system shall let admin view products by category so that the system can easily find the product. The system can look in the product catalogue to find the product admin needs to update.

F9: The system shall let admin view the details of each product so that the system can make changes to it.

F10: The system shall let admin update products (Price, Name, Images, Description) so that system can keep them up-to-date.

F11: The system shall let admin delete products so when a product is no longer available, admin could delete them so that they would not be shown on the website.

F12: The system shall let admin login/logout of the restricted site of the website using admin account.

F13: The system shall let admin read customer's information on the website so that admin can account management.

F14: The system shall let admin update customer's information on the website so that admin can change information when a customer wants to edit their account.

F15: The system shall let admin delete customer's information on the website so that admin can manage account when detecting that the customer's account has an error or the customer does not use that account anymore

F16: The system shall let customers view the home page that includes all the gifts(name, image) contact them on the website so that customers can effectively use the website.

F17: The system shall let customers search for gifts so that customers can find them based on keywords or based on type of products.

F18: The system shall let customers view all the products with representative photos on the website so that customers can choose their favorite products.

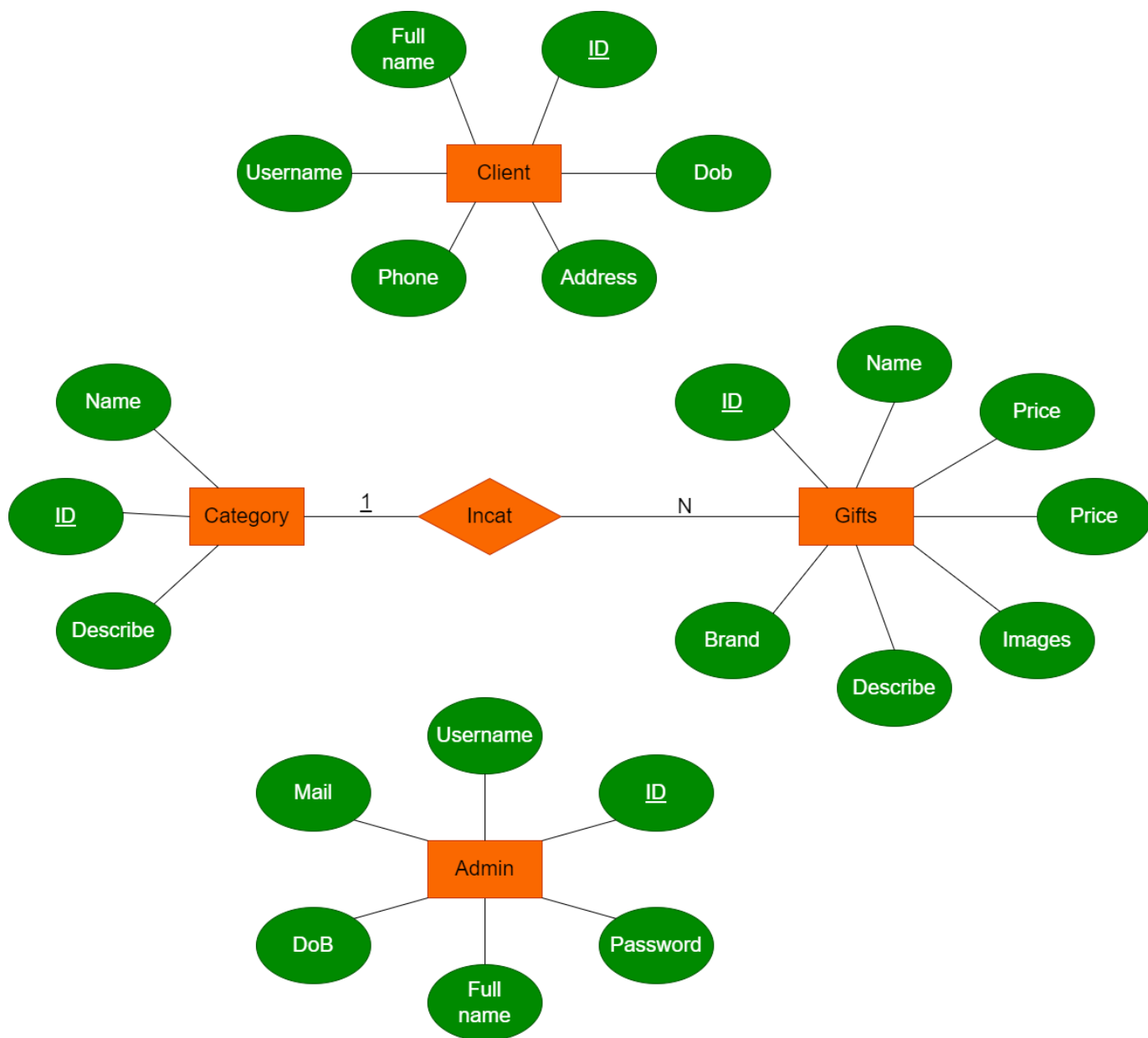
F19: The system shall let customers view the details of each gifts to understand the quality so that the items that customers need to buy would meet system requirements: image, size, weight, origin.

F20: The system shall let customers view products by category (type) so that when customers do not remember the name of the product they are looking for, customers can look in the product catalogue to find the product they need to buy.

F21: The system shall let customers view the "About Us" page so that customers could look for the website's contact information as well as the background of the website.

F22: The system shall let customers register/login information on the website so that customers can buy gifts.

3.2. Entity Relationship Diagram



3.3. Database Design

Field	Data type	Null?	Description	Validation
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<u>ID</u>	int	0	Store Identity Document of a customer	Auto Increment
Fullname	varchar(50)	0	Store user name of a customer	
Username	varchar(50)	0	Store full name of a customer	
DoB	date	0	Store date of birth of a customer	
Phone	char(10)	0	Store phone of a customer	Begin with 0
Address	varchar(255)	0	Store address of a customer	

Table 1: Clients

Field	Data type	Null?	Description	Validation
<u>ID</u>	int	0	Store Identity Document of an admin	Auto Increment
Full name	varchar(50)	0	Store full name of an admin	
Username	varchar(50)	0	Store full name of an admin	
Password	varchar(50)	0	Store admin of an password	Minimum: 5
E-mail	varchar(50)	0	Store email of an admin	abc@gmail.com
DoB	date	0	Store date of birth of a customer	

Table 2: Admins

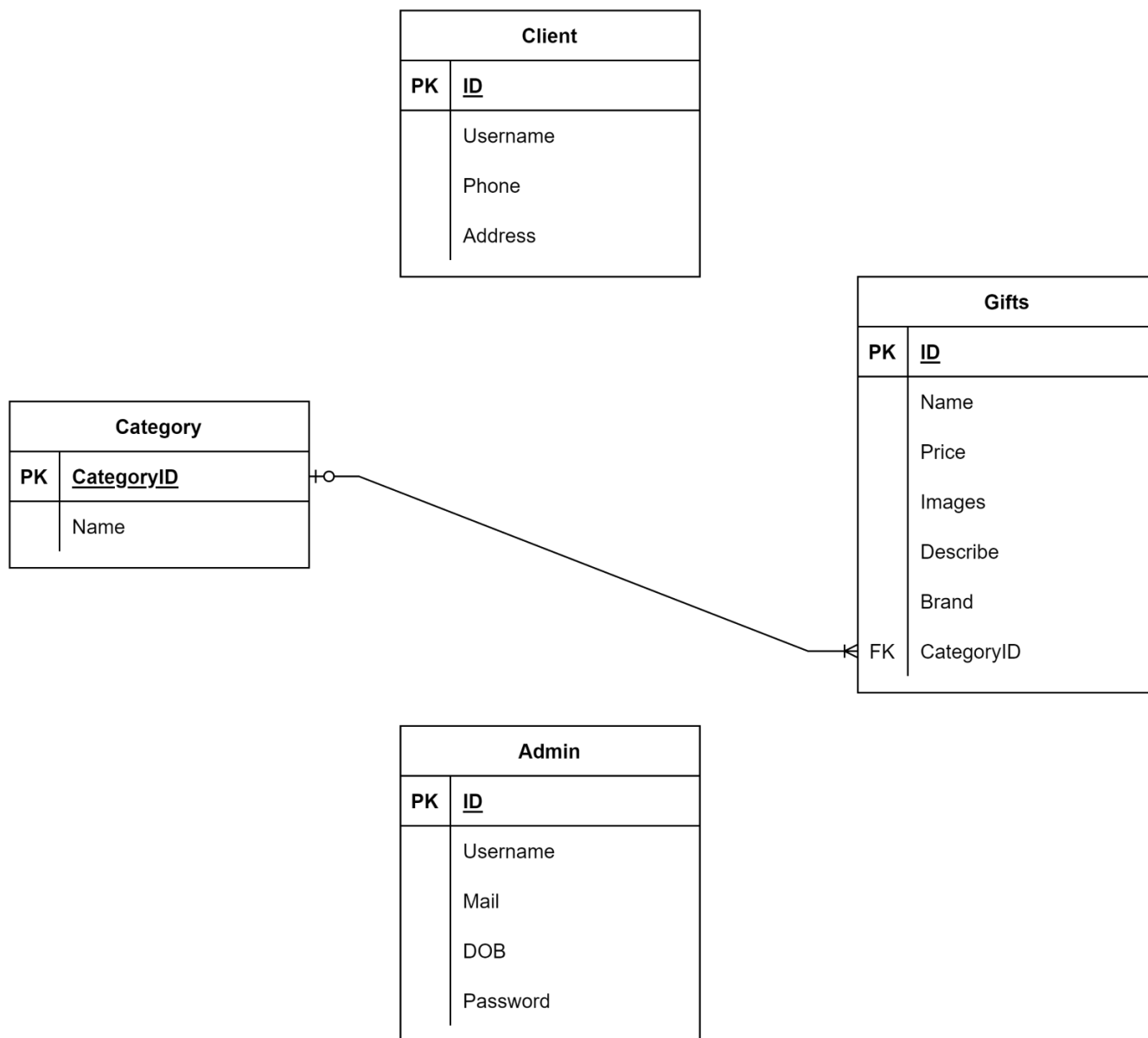
Field	Data type	Null?	Description	Validation
<u>ID</u>	int	0	Store Identity Document of category	Auto Increment
Name	varchar(50)	0	Store full name of category	
Description	text		Store description of category	

Table 3: Category

Field	Data type	Null?	Description	Validation
<u>ID</u>	int	0	Store Identity Document of Gifts	Auto Increment
Name	varchar(255)	0	Store full name of Electronics	
ID(Category)	int	0	Store Identity Document of category FK of Gifts table	Auto Increment
Type	varchar(20)		Store full name of category	

Brand	varchar(50)	0	Store' brand of Gifts	
Price	float	0	Store price of Gifts	
Description	text	0	Store description of Gifts	
Images	varchar(255)	0	Store images of Gifts	Picture

Table 4: Gifts



Database diagram

3.4. Sitemap

