

<b>Project Case</b>	 <b>BINUS</b> UNIVERSITY Software Laboratory Center
COMP6681001 Web Programming	
<b>Computer Science</b>	O222-COMP6681-DY03-00
<i>Valid on Odd Semester Year 2021/2022</i>	<b>Revision 00</b>

1. Seluruh kelompok tidak diperkenankan untuk:

*The whole group is not allowed to:*

- Melihat sebagian atau seluruh proyek kelompok lain,  
*Seeing a part or the whole project from another groups*
- Menyadur sebagian maupun seluruh proyek dari buku,  
*Adapted a part or the whole project from the book*
- Mendownload sebagian maupun seluruh proyek dari internet,  
*Downloading a part or the whole project from the internet,*
- Mengerjakan soal yang tidak sesuai dengan tema yang ada di soal proyek,  
*Working with another theme which is not in accordance with the existing theme in the matter of the project,*
- Melakukan tindakan kecurangan lainnya,  
*Committing other dishonest actions,*
- Secara sengaja maupun tidak sengaja melakukan segala tindakan kelalaian yang menyebabkan hasil karyanya berhasil dicontek oleh orang lain / kelompok lain.  
*Accidentally or intentionally conduct any failure action that cause the results of the project was copied by someone else / other groups.*

2. Jika kelompok terbukti melakukan tindakan seperti yang dijelaskan butir 1 di atas, maka **nilai kelompok** yang melakukan kecurangan (menyontek maupun dicontek) akan di – **NOL** – kan.

*If the group is proved to the actions described in point 1 above, the score of the group which committed dishonest acts (cheating or being cheated) will be “Zero”*

3. Perhatikan jadwal pengumpulan proyek, segala jenis pengumpulan proyek di luar jadwal tidak dilayani.

*Pay attention to the submission schedule for the project, all kinds of submission outside the project schedule will not be accepted*

4. Bila Anda tidak membaca peraturan ini, maka Anda dianggap telah membaca dan menyetujuinya

*If you have missed to read these regulations, so you are considered to have read and agreed on it*

5. Persentase penilaian untuk matakuliah ini adalah sebagai berikut:

*Marking percentage for this subject is described as follows:*

Tugas Mandiri <i>Assignment</i>	Proyek <i>Project</i>	UAP <i>Final Exam</i>
-	100%	-

6. Software yang digunakan pada matakuliah ini adalah sebagai berikut:

*Software will be used in this subject are described as follows:*

Software <i>Software</i>
PHP Composer 1.10.7
PHP Storm 2020.1.2
Laravel Framework 7
Visual Studio Code
XAMPP 7.4.7
Chrome / Firefox / Microsoft Edge

7. Ekstensi file yang harus disertakan dalam pengumpulan proyek untuk matakuliah ini adalah sebagai berikut:

*File extensions should be included in project collection for this subject are described as follows:*

Proyek <i>Project</i>
Folder Project (PHP, SQL, Image Files (JPG / PNG), ENV, HTML, CSS, SCSS, JS, JSON, HTACCESS, ARTISAN)

General Provisions:

- Use **MySQL** as database and must using **Laravel Migration** features.
- **All file upload** feature such as image and document must be **stored to server storage**.
- Use PHP Framework **Laravel 8** to build the project.
- Use Laravel **MVC** concept (**Model, View, Controller**) to build the project.
- Use **Eloquent Query / Query Builder** to work with database.
- You are free to design your own database table **based on given requirements**.
- Print screen given below is only an example. You are free to create your own user interfaces.
- It is **prohibited** to install any kind of Laravel packages. You must use fresh installation of **Laravel 8**. Laravel UI package is allowed for authentication
- Only **validation** in the **backend** (using Laravel) will be graded.
- **Regular Expression (ReGex) validation** will **not be scored**.

**Soal***Case***DY.ID**

**DY.ID** is a famous electronic store in Indonesia made by information systems student. To promotion and expand its business, **DY.ID** wants to create a website for their store. In that website, people can find information about the **DY.ID** electronic products and order it. This website makes it easy for customers to order electronic product at **DY.ID** quickly and safely.

As a web developer, you are asked to create a website using **Laravel 8** for this Online Store. There are three types of user's role in this website: **Admin**, **Member**, and **Guest (non-logged-in user)**.

Each page shows **input search box**, and **home menu in header**. The descriptions for each page are:

**1. Login Page**

This page allows **guest** to login to the website. Display an **error message** on the **Login Page** if user enters wrong combination of **Email** and **Password**.

If user has entered correct **Email** and **Password**, the page will be redirected to the **Home Page** and **show several menus** based on **user login role**. After that if **user checks the Remember Me** checkbox, the website will save the **Email** and **Password** using cookies for **5 hours**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Email	Must be <b>filled</b> and <b>email validation</b>
Password	Must be <b>filled</b>

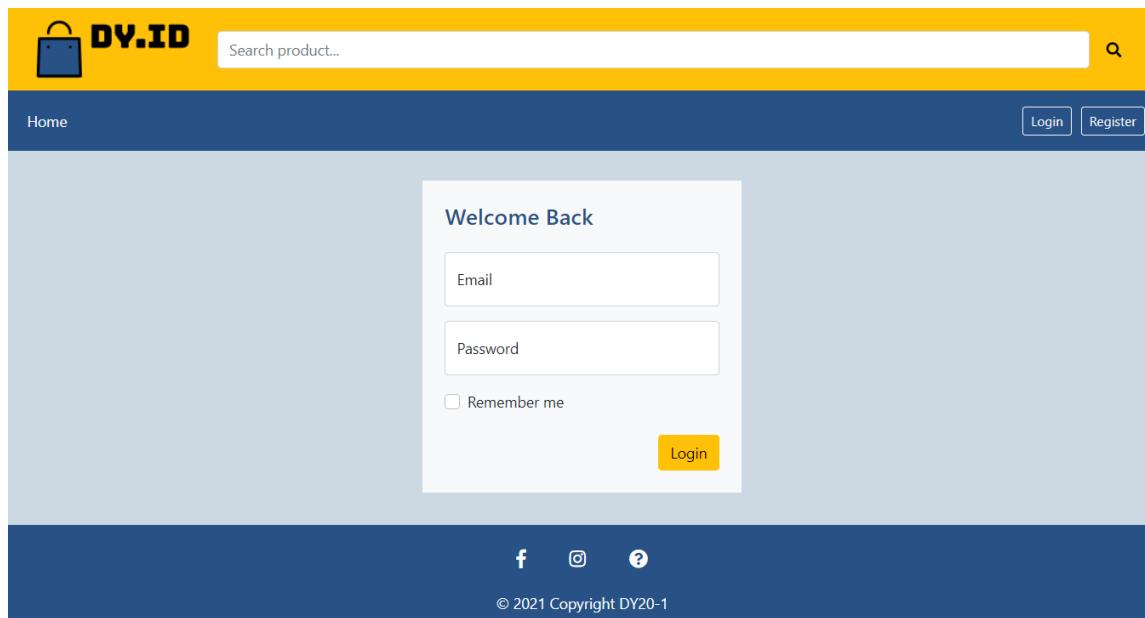
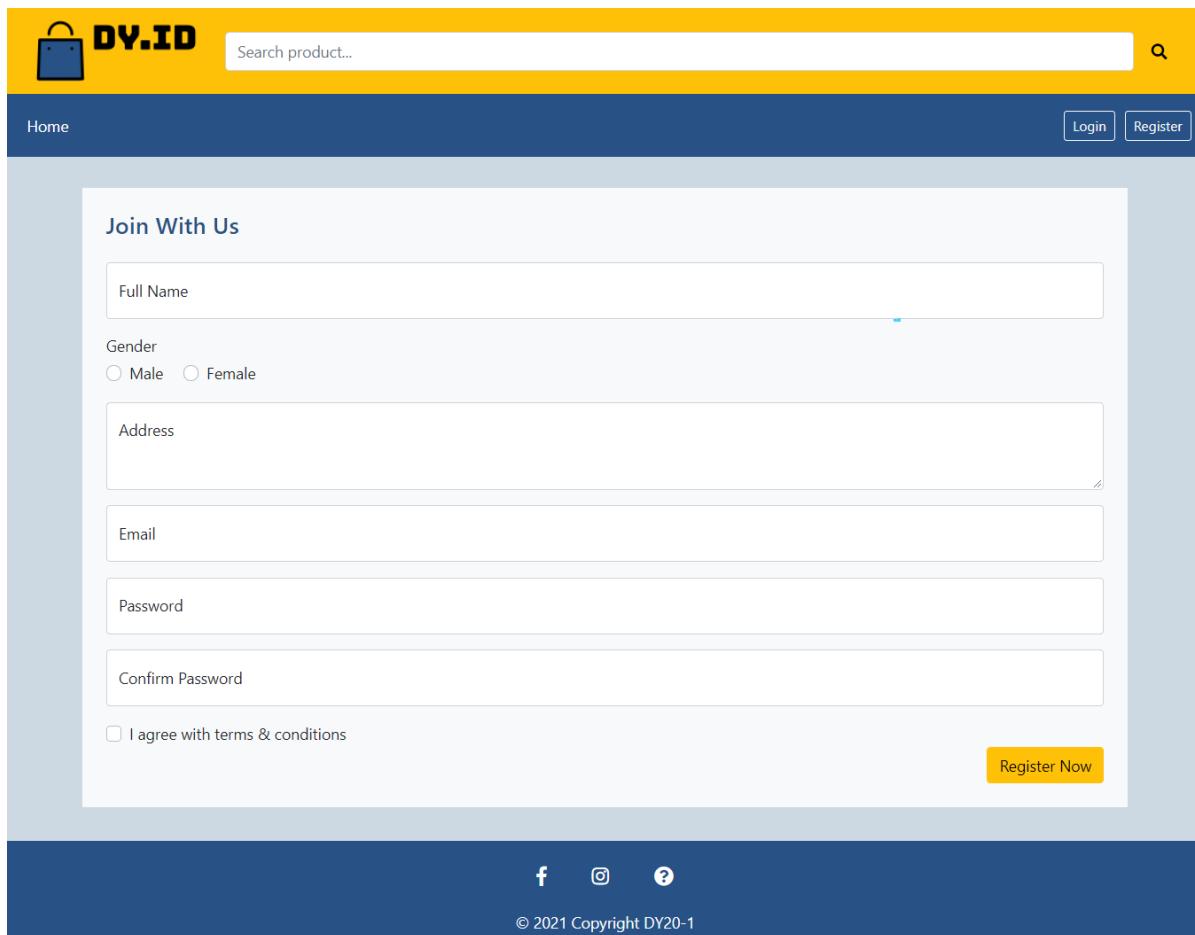


Figure 1. Login Page

## 2. Register Page

This page allows **guest** to **register** themselves as **DY.ID** member. Display an **error message** on the **Register Page** if user input incorrect personal data. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Full Name	Must be filled with <b>minimum 5 characters</b>
Gender	Must be selected
Address	Must be filled with <b>minimum 10 characters</b>
Email	Must be filled, <b>email validation</b> and <b>unique</b>
Password	Must be filled and <b>minimum 6 characters</b>
Confirm Password	Must be filled and <b>same with password</b>
Agreement	Must be checked



**Figure 2. Register Page**

### 3. Home Page

This page allows user to **see all electronic products sold** by **DY.ID**. This page is accessible for **all users**. In this page, user can see new products of DY.ID with **pagination of 6 products for each page**. Each product has information that must be displayed such as **name, category, price, and image**. Each product also has **More Detail** button, and if user **clicks** the button, user will be redirected to **Detail Product Page**.

If the user is still a **guest**, the header will show **Home, Register, and Login** menu. If user login as **member**, the header will show **Home, My Cart, and History Transaction** menu. If user login as **admin**, the header will show **Home, Manage Product dropdown** that have **2 sub-menus** which is **Add Product** and **View Product** menu, and **Manage Category dropdown** that also have **2 sub-menus**, which is **Add Category** and **View Category** menu. **Logged-in users (admin and member)** can see the **Logout** button.

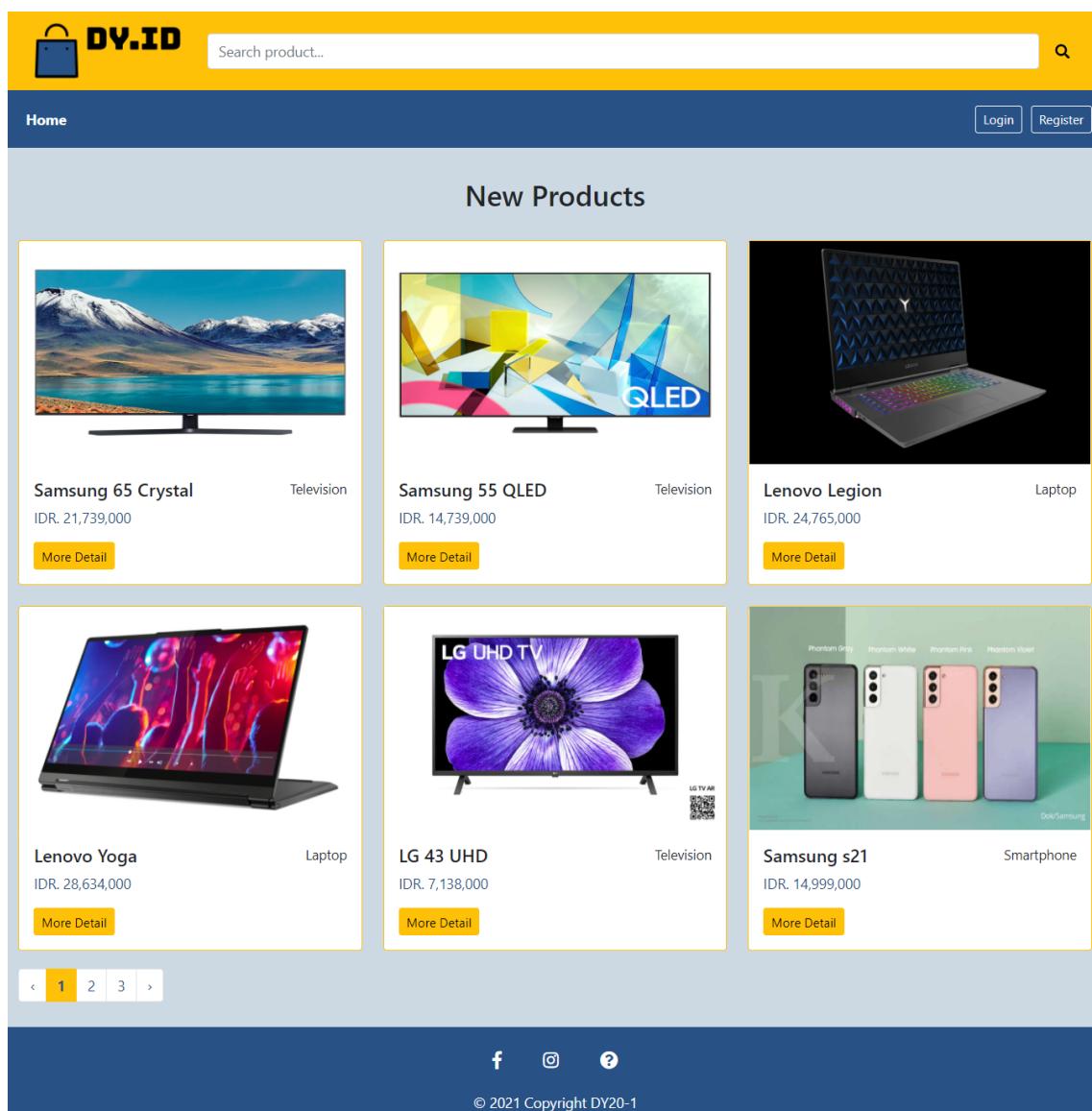


Figure 3. Home Page with menu (for guest)

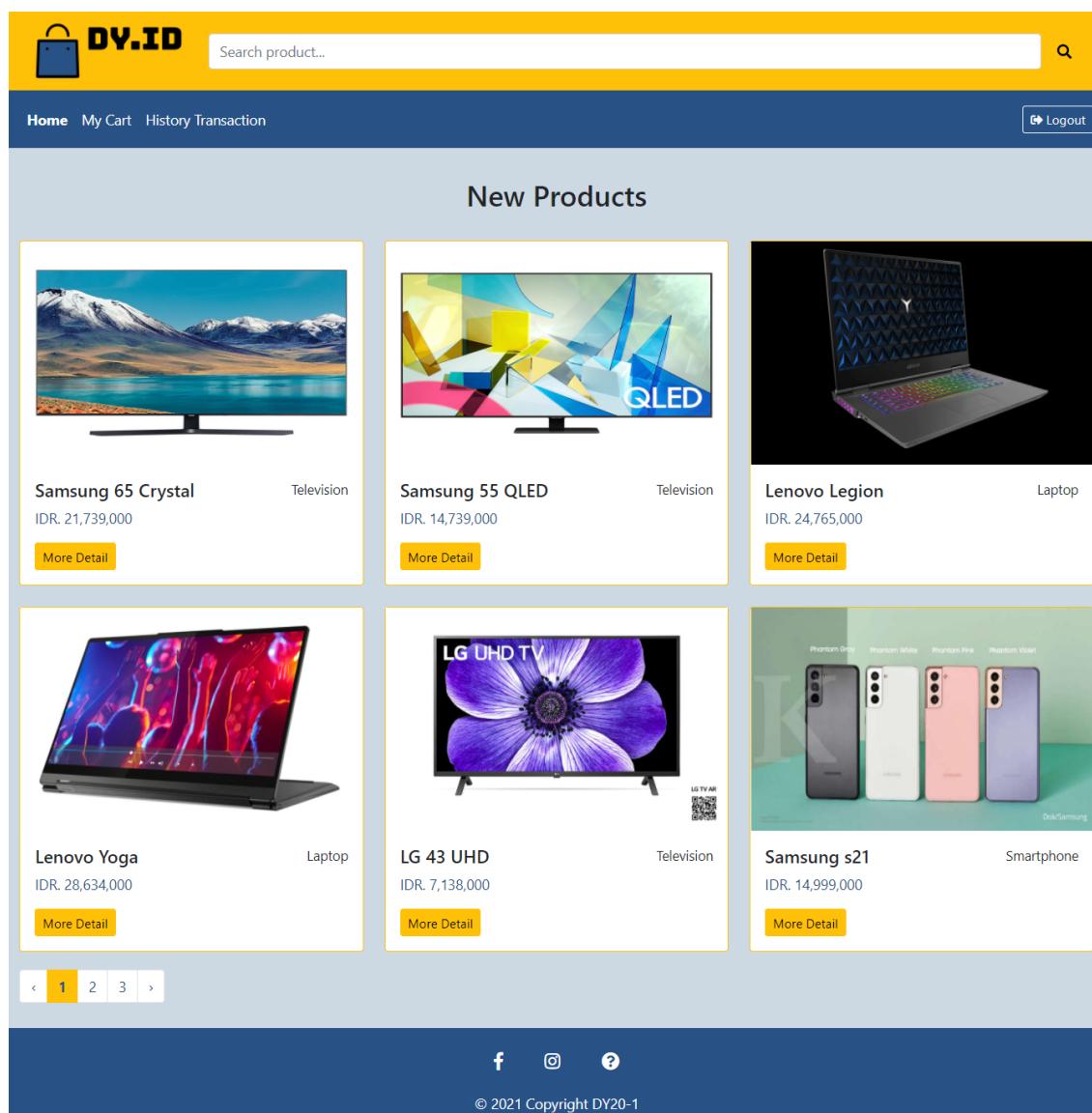


Figure 4. Home Page with menu (for member)

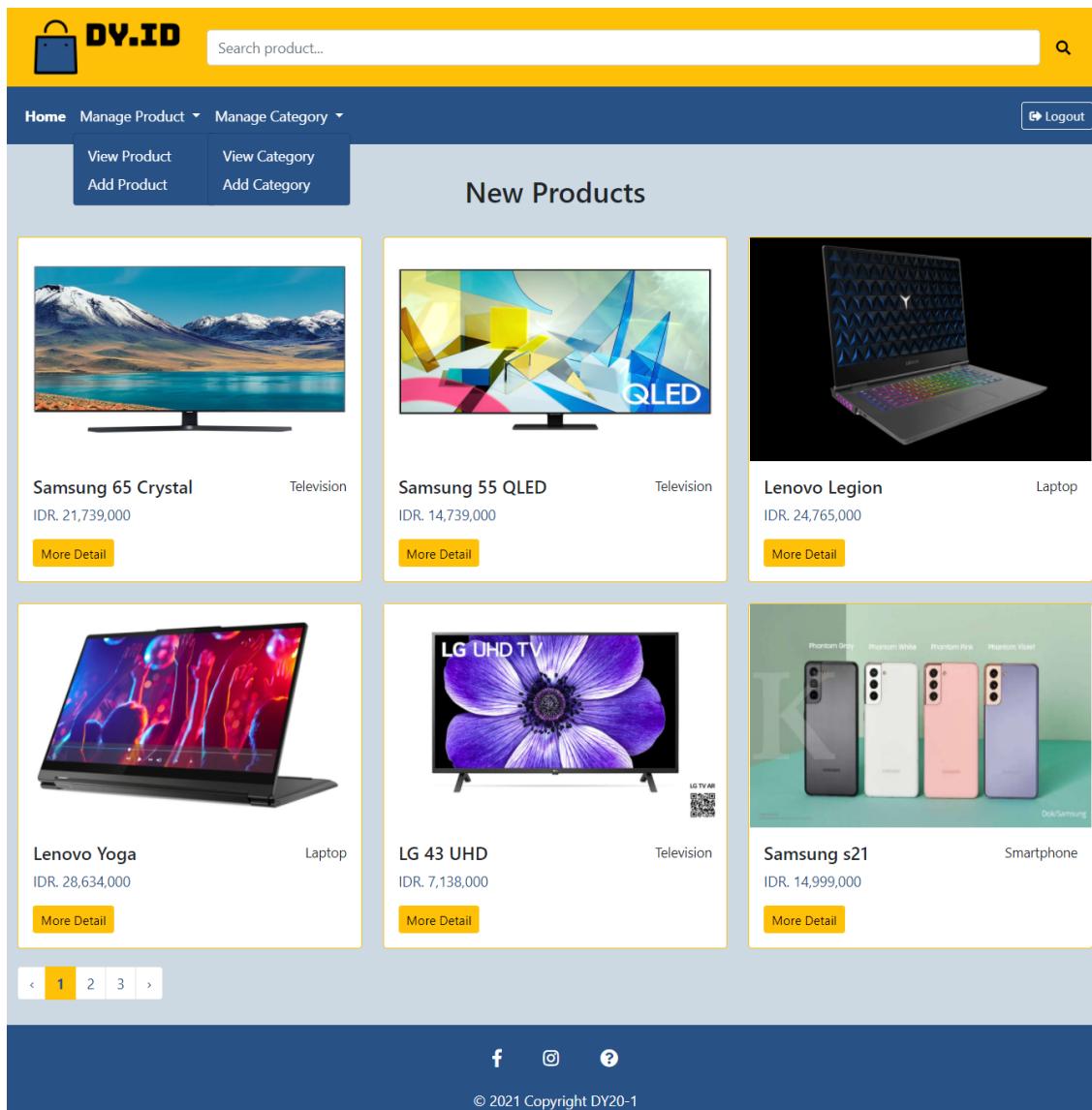


Figure 5. Home Page with menu (for admin)

#### 4. Detail Product Page

This page is accessible for **all users**. This page shows the **product's name, category, price, image, and description of selected product**. For **guest**, there is a **Login to buy** button that will redirect user to **Login Page**. For **member**, they can input **quantity** and click **Add To Cart** button to buy the product. If the selected product is **not in the cart yet**, **insert the product to the cart**. If the selected product is **already in the cart**, **update the product's quantity**.

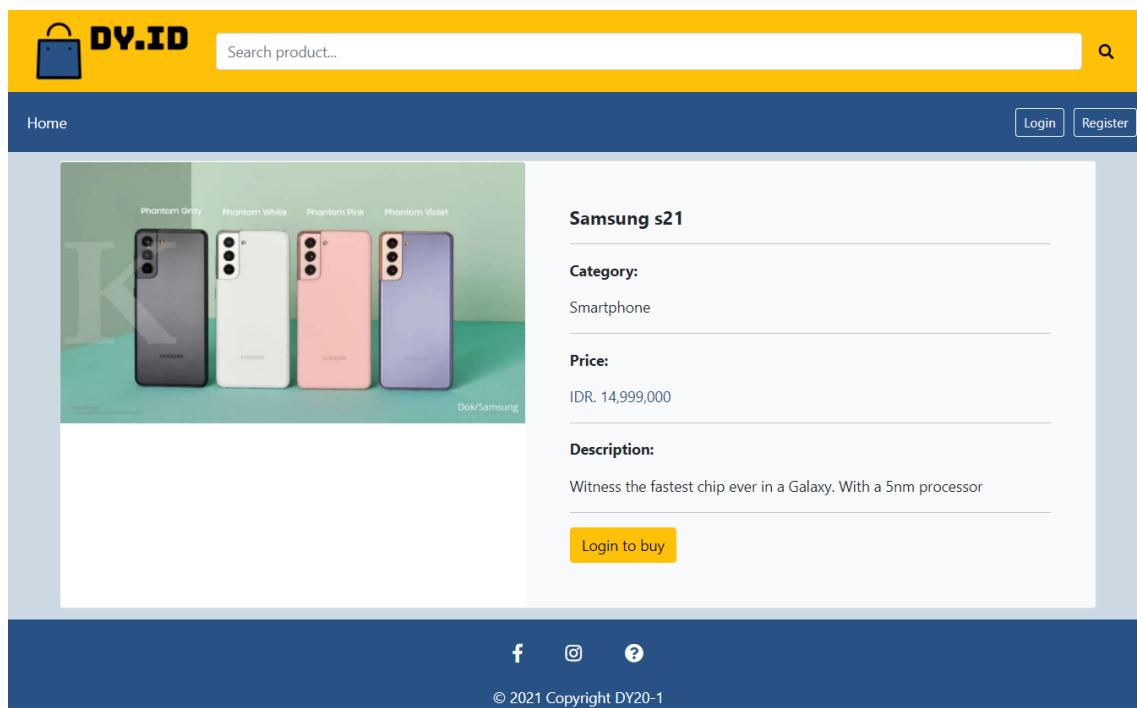


Figure 6. Detail Product Page (for guest)

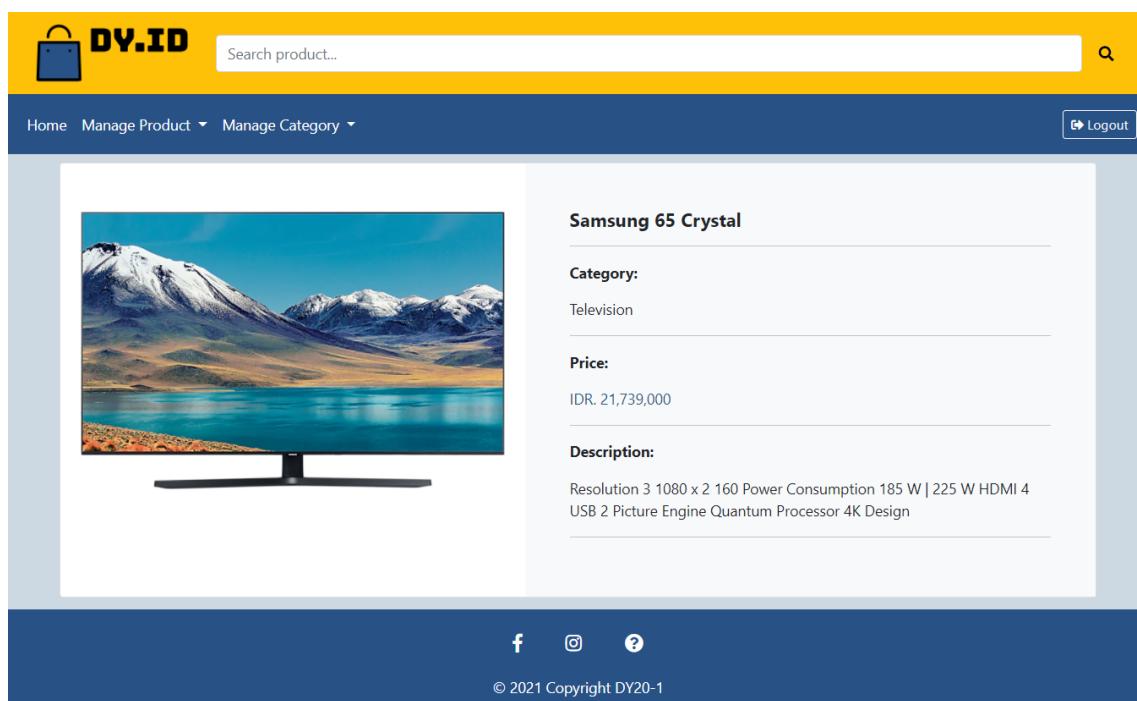
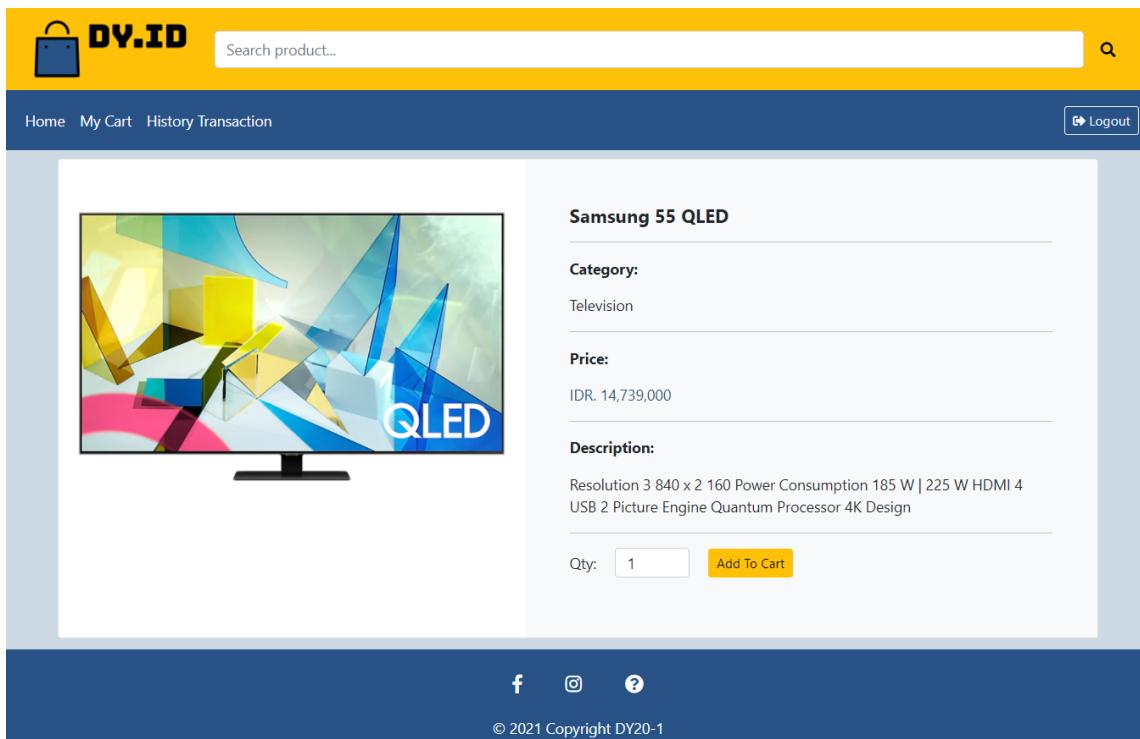


Figure 7. Detail Product Page (for admin)



**Figure 8. Detail Product Page (for member)**

There will be an **error message** if user input the wrong data. The following table shows existing fields in the page and the validation for each field:

Field	Information
Quantity	Must be <b>filled</b> and <b>greater than 0</b>

## 5. My Cart Page

This page is accessible for **member** to **show all product of member's cart**. In this page, users can see all of their items in the cart. Information for each product that must be displayed is **product's image, name, price, quantity, subtotal (price x quantity), and total price for all products that must be paid** below the cart's list. There will be 3 buttons: **Edit, Delete, and Check Out** button. If the **Checkout** button is clicked, it will **delete all products in cart and inserted to a new transaction**. After that, redirect the user to **Transaction History Page**.

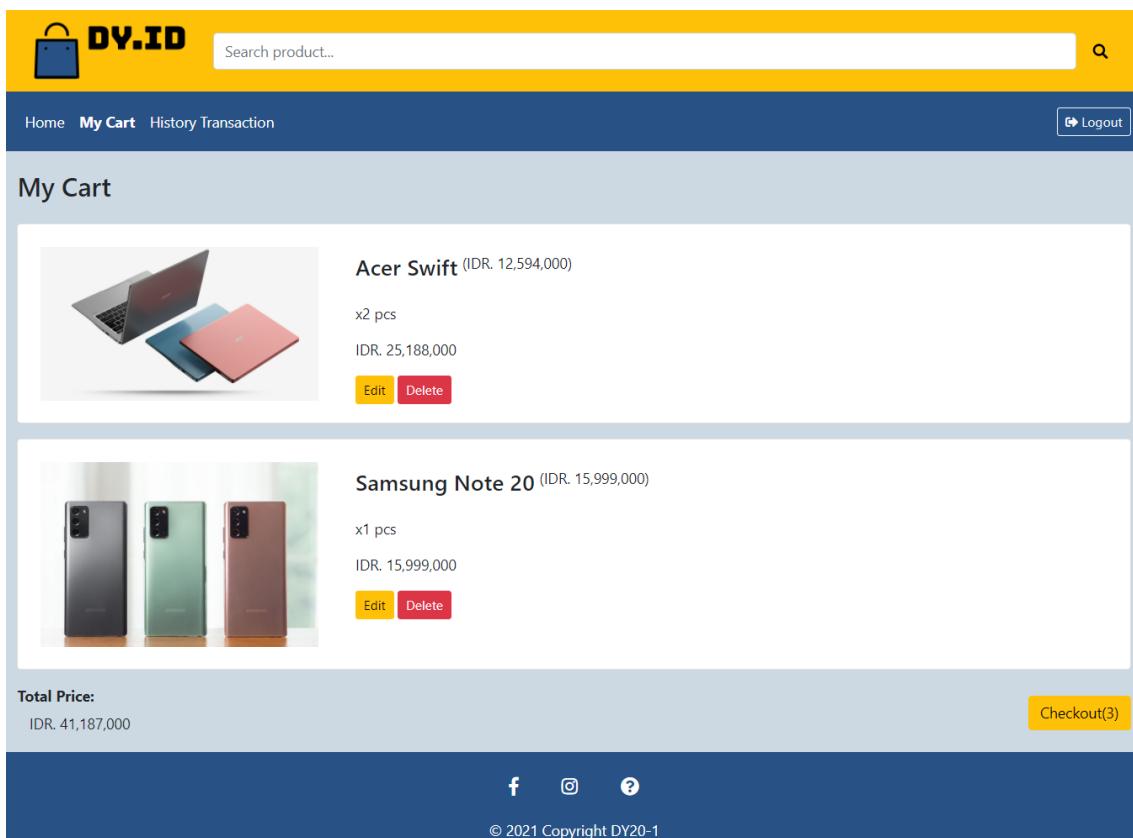


Figure 9. My Cart Page

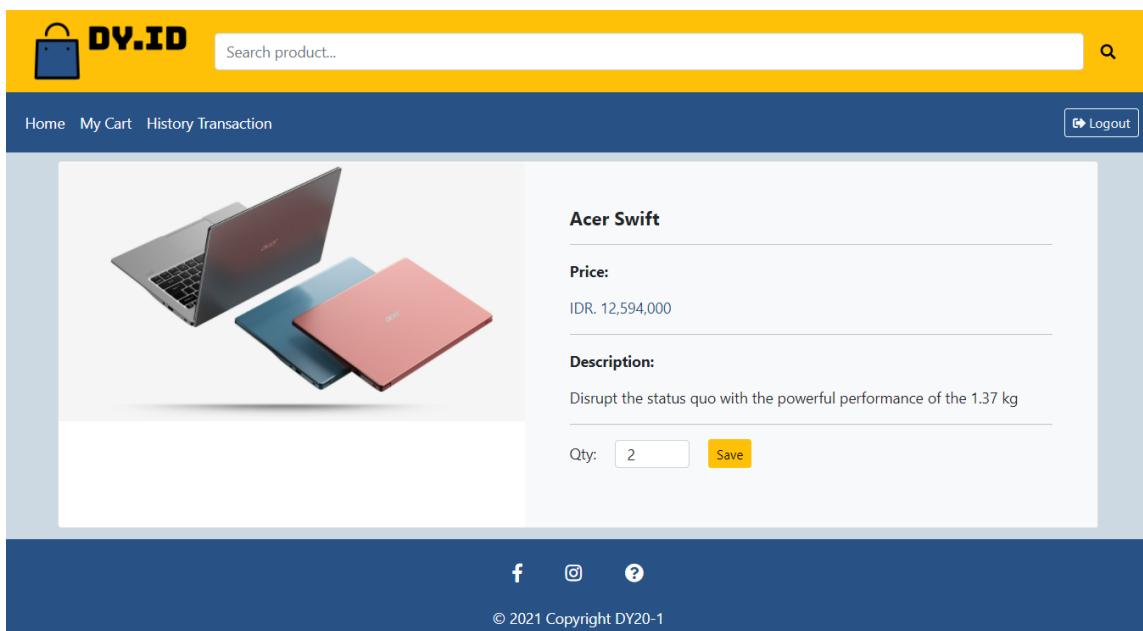
Each product in the lists have **Edit** and **Delete** buttons:

- **Edit** button will redirect the user to **Edit Cart Page**
- **Delete** button will **delete the selected product in cart**

## 6. Edit Cart Page

This page is accessible for **member**. This page is used to **edit the selected product's quantity in carts**. If the member clicked **Save** button, the **product's quantity will be updated** and redirect to **My Cart Page**. There will be an **error message** if user input the wrong data. The following table shows existing fields in the page and the validation for each field:

Field	Information
Quantity	Must be filled and greater than 0



**Figure 10. Edit Cart Page**

## 7. My History Transaction Page

This page is accessible for **member** to show their transaction history. The information of transaction that must be shown are **transaction date, product's picture, name, quantity, price, subtotal (price x quantity), and total price.**

The screenshot shows the 'My History Transaction' section of the DY.ID website. It displays two transaction entries:

- 2021-03-25 09:16:25:** Purchase of **Iphone XR** (IDR. 5,950,000) at **x2 pcs**, totaling **IDR. 11,900,000**. The image shows multiple iPhone XR phones in various colors (Red, Yellow, White, Blue, Black, Coral).

Color	Quantity	Price
Red	1	IDR. 5,950,000
Yellow	1	IDR. 5,950,000
White	0	
Blue	0	
Black	0	
Coral	0	
- 2021-02-27 18:41:51:** Purchase of **Asus ROG** (IDR. 14,449,000) at **x1 pcs**, totaling **IDR. 14,449,000**. The image shows two Asus ROG keyboards.

Product	Quantity	Price
Asus ROG	1	IDR. 14,449,000
- 2021-02-27 18:41:51:** Purchase of **LG 43 FHD** (IDR. 4,000,000) at **x3 pcs**, totaling **IDR. 12,000,000**. The image shows three LG 43 FHD televisions.

Product	Quantity	Price
LG 43 FHD	3	IDR. 4,000,000

At the bottom, there are social media sharing icons (Facebook, Instagram, Twitter) and a copyright notice: © 2021 Copyright DY20-1.

**Figure 11. My History Transaction Page**

## 8. View Product Page

This page is accessible only for **admin**. This page can be access when **admin** choose **View Product** menu in **Manage Product** menu dropdown. This page shows **all electronic products sold** by **DY.ID**. Each product has information that must be displayed such as **image, name, description, price, and category name**.

The screenshot shows the DY.ID website's product management interface. At the top, there's a yellow header with the DY.ID logo and a search bar. Below it is a dark blue navigation bar with links for Home, Manage Product, Manage Category, and Logout. The main content area is titled "Manage Product" and features a table with 17 rows of product data. Each row includes a product image, name, description, price, category, and action buttons for updating or deleting the item.

No	Product Image	Product Name	Product Description	Product Price	Product Category	Action
1		Samsung 32 HD	Wide Color Enhancer, Connect Share Transfer, HD Resolution	3025000	Television	<button>Update</button> <button>Delete</button>
2		Iphone XR	Full screen design, Liquid Retina display, TrueDepth camera, Face ID and A12 Bionic	5950000	Smartphone	<button>Update</button> <button>Delete</button>
3		iPhone 11	AThe curved corners follow a beautiful curved design, and they are all within a standard rectangle	10770000	Smartphone	<button>Update</button> <button>Delete</button>
4		Acer Swift	Disrupt the status quo with the powerful performance of the 1.37 kg	12594000	Laptop	<button>Update</button> <button>Delete</button>
5		Asus ROG	The first ROG motherboards made hardcore	14449000	Laptop	<button>Update</button> <button>Delete</button>
6		Iphone XS	Features 5.8" display, Apple A12 Bionic chipset	4845000	Smartphone	<button>Update</button> <button>Delete</button>
7		Asus TUF	Samsung Note 20 Ultra 256GB Ready Stock!	10300000	Laptop	<button>Update</button> <button>Delete</button>
8		LG 43 FHD	A New Level of Full-HD, Dynamic Color Enhance, Dolby Audio™ A Movie-like Sound Experience	4000000	Television	<button>Update</button> <button>Delete</button>
9		Samsung 43 FHD	Tuner Digital 3D Technology No Smart tv Yes Display Type Flat Smart Platform	4650000	Television	<button>Update</button> <button>Delete</button>
10		Samsung Note 20	APro-grade Camera & Incredibly Realistic Pen Experience.	15999000	Smartphone	<button>Update</button> <button>Delete</button>
11		Samsung a52	IP67-Rated Water Resistant for up to 30 minutes. 6.5" Sreen and Infinity-O Camera	4999000	Smartphone	<button>Update</button> <button>Delete</button>
12		Samsung s21	Witness the fastest chip ever in a Galaxy. With a 5nm processor	14999000	Smartphone	<button>Update</button> <button>Delete</button>
13		LG 43 UHD	A New Intelligence Evolved With AI With the LG ThinQ AI, many things are possible with just your voice	7138000	Television	<button>Update</button> <button>Delete</button>
14		Lenovo Yoga	(Shadow Black) Intel® Core™ i7-1185G7 Processor (4C / 8T, 3.0 / 4.8GHz, 12MB) 16GB LPDDR4X 4266MHz Onboard 1TB	28634000	Laptop	<button>Update</button> <button>Delete</button>
15		Lenovo Legion	The Lenovo Legion gaming laptops have the processing and graphics performance you need in a stylish mobile package.	24765000	Laptop	<button>Update</button> <button>Delete</button>
16		Samsung 55 QLED	Resolution 3 840 x 2 160 Power Consumption 185 W   225 W HDMI 4 USB 2 Picture Engine Quantum Processor 4K Design	14739000	Television	<button>Update</button> <button>Delete</button>
17		Samsung 65 Crystal	Resolution 3 1080 x 2 160 Power Consumption 185 W   225 W HDMI 4 USB 2 Picture Engine Quantum Processor 4K Design	21739000	Television	<button>Update</button> <button>Delete</button>

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**Figure 12. View Product Page**

Each product in the lists have **Update** and **Delete** buttons:

- **Update** button will redirect the user to **Edit Product Page**
- **Delete** will **delete** the **selected product in product list**

## 9. Add Product Page

This page will allow **admin** to add new product. This page can be access when **admin** choose **Add Product** menu in **Manage Product** menu dropdown. There will be an **error message** if user input the wrong data. The following table shows existing fields in the page and the validation for each field:

Field	Information
<b>Product Name</b>	Must be <b>filled, unique, and minimum 5 characters</b>
<b>Product Description</b>	Must be <b>filled and minimum 50 characters</b>
<b>Product Price</b>	Must be <b>filled, numeric and must greater than 0</b>
<b>Product Category</b>	Must be <b>selected</b>
<b>Product Image</b>	Must be <b>chosen and only allow .jpg</b>

The screenshot shows the 'Insert New Product' form. It has five input fields: 'Product Name', 'Product Description', 'Product Price', 'Product Category' (a dropdown menu with 'Choose One'), and 'Product Image' (an input field with 'Choose File' and 'No file chosen'). Below the form is a yellow 'Add' button. At the bottom of the page is a dark blue footer bar with social media icons (Facebook, Instagram, Question mark) and the text '© 2021 Copyright DY20-1'.

**Figure 13. Add Product Page**

## 10. Edit Product Page

This page is accessible only for **admin** to update the product data. This page **shows selected detail product from View Product Page**. After user clicked the **Save** button, redirect back to **View Product Page** with **updated product list**. There will be an **error message** if user input the wrong data. The following table shows existing fields in the page and the validation for each field:

Field	Information
Name	Must be <b>filled, unique, and minimum 5 characters</b>
Description	Must be <b>filled and minimum 50 characters</b>
Price	Must be <b>filled with integer format and must greater than 0</b>
Category	Must be <b>selected</b>
Image	<b>Can be filled or not (only allow .jpg)</b>

The screenshot shows the 'Edit Product' page of a web application. At the top, there is a yellow header bar with the 'DY.ID' logo and a search bar. Below the header, a dark blue navigation bar includes links for 'Home', 'Manage Product', 'Manage Category', and a 'Logout' button. The main content area has a light gray background and is titled 'Edit Product'. It contains several input fields: 'Product Name' (Samsung 32 HD), 'Product Description' (Wide Color Enhancer, Connect Share Transfer, HD Resolution), 'Product Price' (3025000), 'Product Category' (Television), and a 'Product Image' section where a file named 'Samsung32HD.jpg' has been uploaded. A 'Save' button is located at the bottom right of the form. The footer of the page is dark blue and features social media icons for Facebook, Instagram, and a question mark, along with the copyright notice '© 2021 Copyright DY20-1'.

**Figure 14. Edit Product Page**

## 11. View Category Page

This page is accessible only for **admin**. This page can be access when **admin** choose **View Category** menu in **Manage Category** menu dropdown. This page shows **all electronic category's name**.

No	Category Name	Action
1	Television	<a href="#">Update</a> <a href="#">Delete</a>
2	Laptop	<a href="#">Update</a> <a href="#">Delete</a>
3	Smartphone	<a href="#">Update</a> <a href="#">Delete</a>

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© 2021 Copyright DY20-1

**Figure 15. View Category Page**

Each category in the lists have **Update** and **Delete** buttons:

- If user clicked the **Update** button, it will redirect the user to **Edit Category Page**
- If user clicked the **Delete** button, **delete the selected category in category list**

## 12. Add Category Page

This page will allow **admin** to add new category. This page can be access when **admin** choose **Add Category** menu in **Manage Category** menu dropdown. There will be an **error message** if user input the wrong data. The following table shows existing fields in the page and the validation for each field:

Field	Information
Name	Must be <b>filled</b> , <b>unique</b> , and <b>minimum 2 characters length</b>

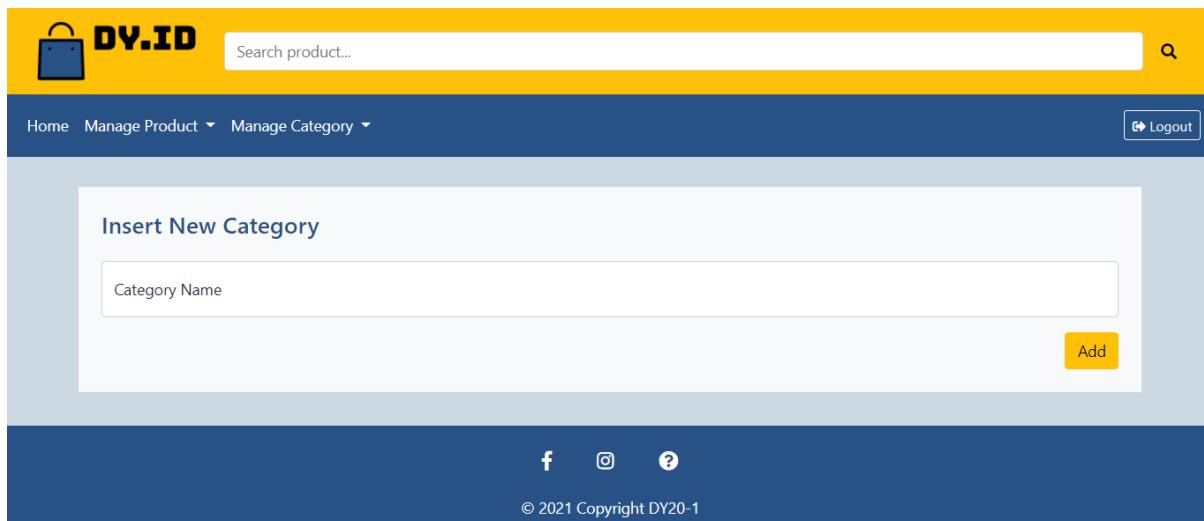


Figure 16. Add Category Page

### 13. Edit Category Page

This page is accessible only for **admin** to update the category data. This page **shows selected detail category** from **View Category Page**. After user clicked the **Save** button, redirect back to **View Category Page** with **updated category list**. There will be an **error message** if user input the wrong data. The following table shows existing fields in the page and the validation for each field:

Field	Information
Name	Must be <b>filled</b> , <b>unique</b> , and <b>minimum 2 characters length</b>

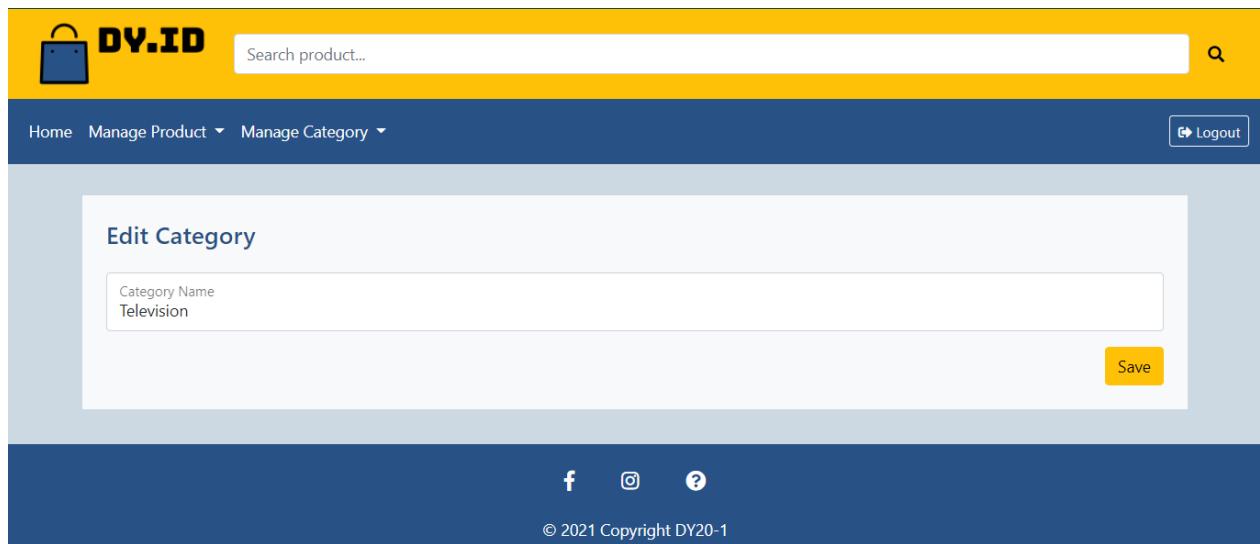


Figure 17. Edit Category Page

#### 14. Search Page

This page is accessible for **all users**. The user can **find product** by its **name**. After the **Search** icon is clicked, the page will **show all products according to the keywords inputted by user**. Use **pagination** to limit the page only showing **6 products for each page**.

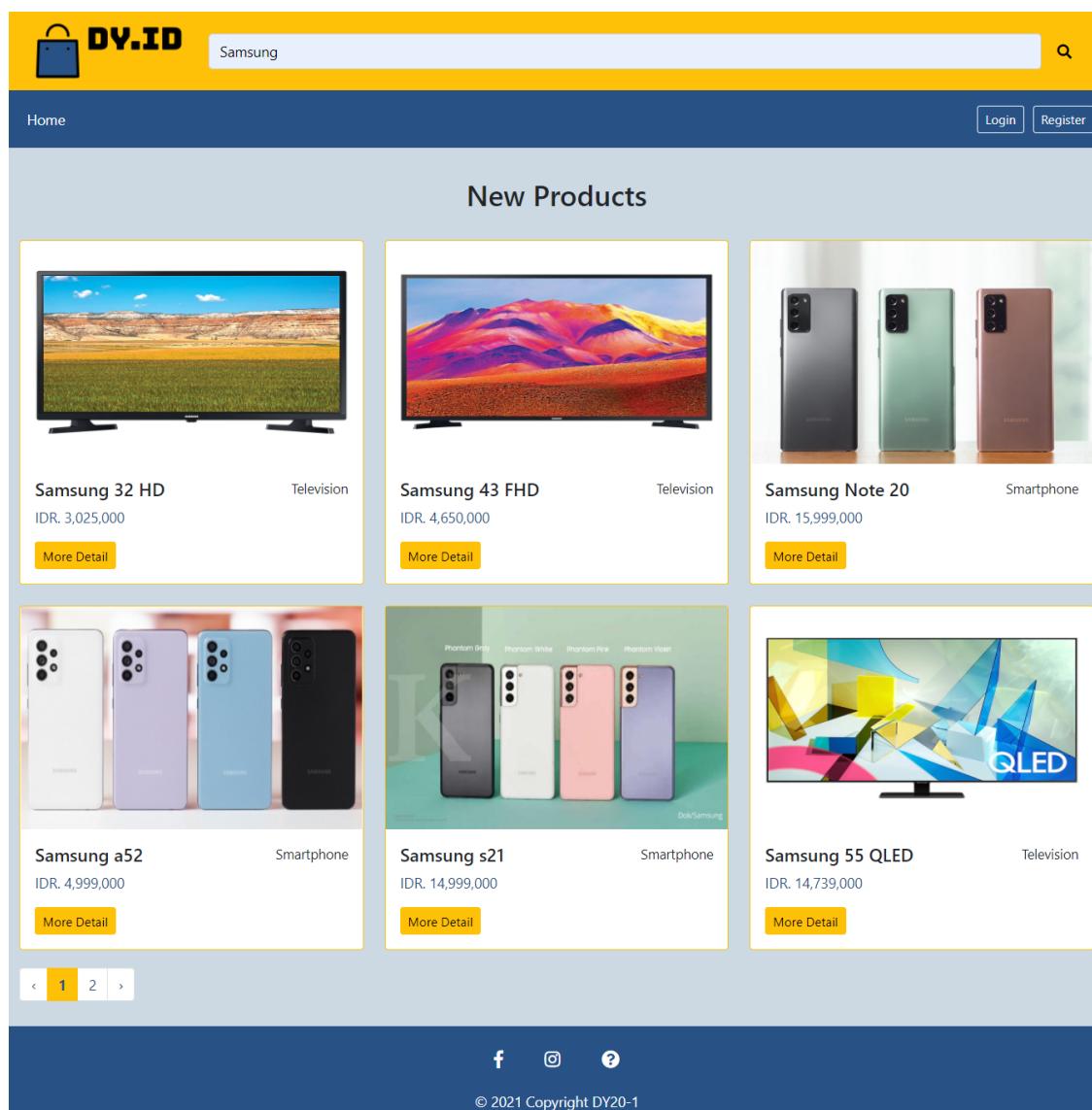


Figure 18. Search Page

Here are the rules that you must follow to create your project:

1. Use appropriate software for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya.
2. Use the techniques taught during practicum.
3. Collect appropriate files for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya.
4. Include the other files that can support your project, such as:
  - All files in your project
  - Other files (image, audio, video, etc.) used in your project
  - \*.DOC file (documentation of your project) that contains all pages in your project, reference links of additional files (image, audio, video, etc.) used in your project, the description about how to use your application, etc.
5. If there are some hidden creativities, please note them in the existing documentation because they can greatly affect your project score.

**References Link:**

- <https://tekno.kompas.com/read/2021/01/14/22150007/harga-samsung-galaxy-s21-s21-plus-dan-s21-ultra-di-indonesia?page=all>
- <https://teknologi.id/ulasan/acer-swift-3-laptop-ultra-thin-yang-ideal-dan-terjangkau>
- <https://gadgetren.com/2020/08/19/review-asus-rog-strix-g15-g512li-115466/>
- <https://www.liputan6.com/tekno/read/4153403/asus-ramaikan CES-2020-dengan-4-laptop-gaming-tuf-baru>
- <https://www.suara.com/tekno/2019/06/20/202242/asus-vivobook-ultra-a412-meluncur-sasar-para-millenial>
- <https://www.asus.com/Laptops/For-Home/ZenBook/ZenBook-14-UM433-4000-series-Ryzen/>
- <https://tekno.kompas.com/read/2021/04/06/20142427/laptop-gaming-lenovo-legion-7-dan-legion-5-pro-dirilis-di-indonesia-ini?page=all>
- [https://www.jd.id/product/apple-iphone-xr-64gb-black-official-warranty\\_11189922/102762359.html](https://www.jd.id/product/apple-iphone-xr-64gb-black-official-warranty_11189922/102762359.html)
- <https://www.apple.com/id/iphone-11/specs/>
- <https://www.samsung.com/id/tvs/uhd-4k-tv/tu8000-55-inch-crystal-uhd-smart-tv-ua55tu8000kxxd/>
- <https://www.samsung.com/id/tvs/qled-tv/q60t-55-inch-qled-4k-smart-tv-qa55q60takxxd/>
- <https://www.bhinneka.com/samsung-75-inch-smart-tv-qled-4k-uhd-qa75q95t-sku3332690984>
- <https://www.tokopedia.com/printerstore/lenovo-yoga-9i-14itl5-i7-1185g7-16gb-1tb-ssd-14-uhd-touch-win10-ohs>
- <https://www.lg.com/id/business/display/lg-43LV300C>
- <https://www.lg.com/ph/tvs/lg-43LM5500PTA>
- <https://www.cnet.com/reviews/apple-iphone-xs-review/>
- <https://tekno.kompas.com/read/2020/08/06/12280037/spesifikasi-lengkap-serta-harga-samsung-galaxy-note-20-dan-note-20-ultra-versi>
- <https://daerah.sindonews.com/read/405326/701/ini-alasan-mengapa-hp-samsung-galaxy-a52-harus-segera-dimiliki-1619078662>
- <https://www.indozone.id/tech/5jsoxm/samsung-bawa-tablet-galaxy-tab-s6-lite-ke-tanah-air-berikut-harganya>