

CMPE 372 Project Report

Project Group: 2

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Introduction

Our group's project is an e-commerce web application where users can order cosmetic and over-the-counter medical products.

1- User's Manual (How to use application)

- You need to have **XAMPP** installed on your computer for running this application **locally**.
- For installing **XAMPP**, visit <https://www.apachefriends.org/download.html>
- After installing **XAMPP**, run **Apache server** and **MySQL database server**.



- Visit <http://localhost:80/phpmyadmin>

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases: New, cmpe-deneme, group2, information_schema, mysql, performance_schema, phpmyadmin, and test. The main area has tabs for Databases, SQL, Status, User accounts, Export, Import, Settings, Replication, Variables,Charsets, Engines, and Plugins. The current tab is "Server: 127.0.0.1". The "General settings" panel shows "Server connection collation: utf8mb4_unicode_ci". The "Appearance settings" panel shows "Language: English" and "Theme: pmahomme". The "Database server" panel lists server details: Server: 127.0.0.1 via TCP/IP, Server type: MariaDB, Server connection: SSL is not being used, Server version: 10.4.28-MariaDB - mariadb.org binary distribution, Protocol version: 10, User: root@localhost, and Server charset: UTF-8 Unicode (utf8mb4). The "Web server" panel is partially visible at the bottom.

- Create a **user** with **username: abc** and **password: abc**
- Create a database with the name of **group2**.
- Import **sql/group2.sql** file in database **group2**.
- Move **group2** folder in **xampp/htdocs** folder
- Visit <http://localhost/group2>
- You will be redirected to login.php

The screenshot shows a login form titled "Login". It has two input fields: "Email" and "Password", both with placeholder text. Below the fields is a large green "Login" button. Underneath the button is a red "Go to register" button. The background features a horizontal gradient bar at the top and bottom.

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- Go to register

The screenshot shows a registration form titled 'Register'. It includes fields for Name, Email, and Password, each with a corresponding input box. Below the input boxes is a green 'Register' button. Underneath the button is a red 'Go to login' button. The background features a gradient from pink at the top to purple at the bottom.

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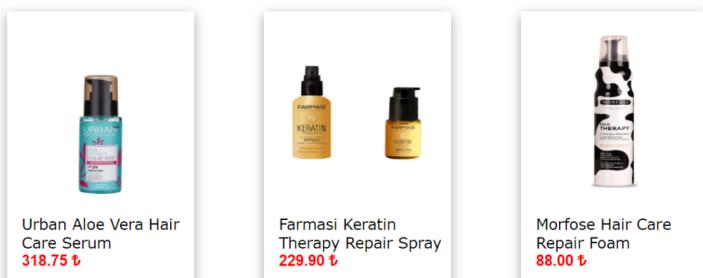
- Create a new account
- Login with your new created account
- You will be redirected to index.php
- In this page, you can see all categories and some featured products

The screenshot shows the homepage of the 'Online Pharmacy Store'. At the top, there is a navigation bar with a logo, a 'Basket (0)' button, a 'Previous Orders' button, and a user account section with the email 'omer@gmail.com'. Below the navigation bar, the main header features the text 'Online Pharmacy Store' in large blue and teal letters, followed by 'fast delivery' in a stylized script. To the right of the text is a 3D illustration of a person interacting with a digital storefront displaying various pharmaceutical products. A search bar with the placeholder 'Search...' is positioned above the illustration. Below the header, a red banner contains the word 'Categories'. Underneath the banner, there are five circular product thumbnails with labels: 'Cleaners' (a woman applying cream), 'Hair Care' (a woman's hair), 'Dental Care' (a close-up of a smile), 'Face Care' (a woman applying cream), and 'Vitamins' (a bottle of CoQ-10). The overall design is clean and modern, using a color scheme of pink, purple, and blue.

- Click the category you want to go

Hair Care 3 products found

Price: Highest First ▾



- Click the item you want to see details of
- Click add to basket button for adding product to your basket

Farmasi Keratin Therapy Repair Spray
229.90 ₺

Add to basket

Thanks to the keratin in its content, it strengthens the broken and burnt hair. organic and antiallergic. Use by massaging the scalp before washing. Let it stay on the scalp for at least 2-3 hours and rinse with plenty of water.

- Go to basket
- Before confirming your order, you need to enter your address in your profile page.
- Select your payment method
- Confirm your order

The screenshot shows a mobile application interface. At the top, there is a navigation bar with a logo, a green button labeled "Basket (3)", a black button labeled "Previous Orders", an account icon with the email "omer@gmail.com", and a red circular icon with a white arrow.

The main content area displays a "My basket (3 items)" section. It lists an item: "Farmasi Keratin Therapy Repair Spray" at 229.90 x 3 pieces, totaling 689.70 ₺. To the right of this is a "Basket" icon. Below this is an "Order Summary" box containing the following information:

- Includes 3 items
- Total price 689.70 ₺
- Deliver to: Bilgi Üniversitesi
- Payment: Credit Card

A green "Confirm order >" button is at the bottom of the summary box.

- Display your previous orders

The screenshot shows a mobile application interface with a navigation bar at the top. The main content area is titled "Your Previous Orders" and displays three previous orders in a list:

- Order ID: 94**
Order Date: 2023-05-28 16:50:45
Payment: Credit Card
Delivered to: Bilgi Üniversitesi
Order Total: 689.70 ₺
- Order ID: 93**
Order Date: 2023-05-28 16:26:04
Payment: Credit Card
Delivered to: a
Order Total: 1416.05 ₺
- Order ID: 92**
Order Date: 2023-05-28 15:25:49
Payment: Credit Card
Delivered to: a
Order Total: 1217.80 ₺

- Display your previous order details by clicking the previous order you want

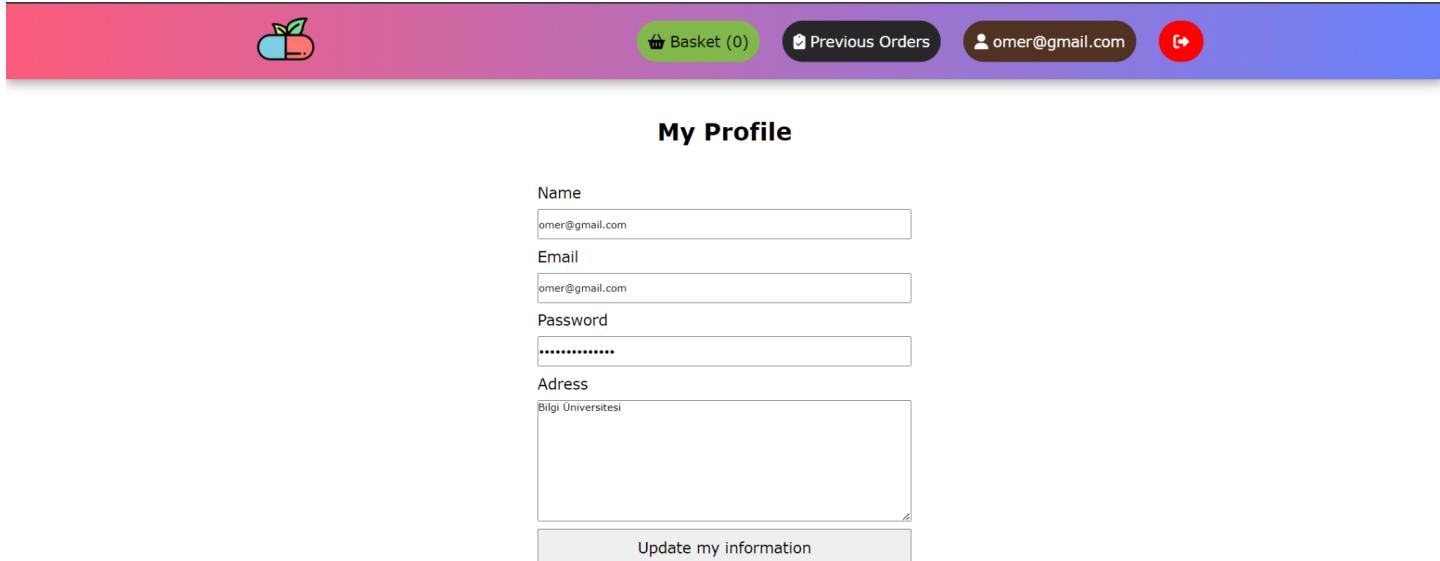
The screenshot shows a mobile application interface with a navigation bar at the top. The main content area is titled "Order Details" and displays the details of the first previous order (ID 94):

Farmasi Keratin Therapy Repair Spray 229.90 x 3 pieces 689.70 ₺

To the right is an "Order Summary" box containing the following information:

- Time: 2023-05-28 16:50:45
- Payment: Credit Card
- Delivered to: Bilgi Üniversitesi
- Total price 689.70 ₺

- Change your account information



My Profile

Name
omer@gmail.com

Email
omer@gmail.com

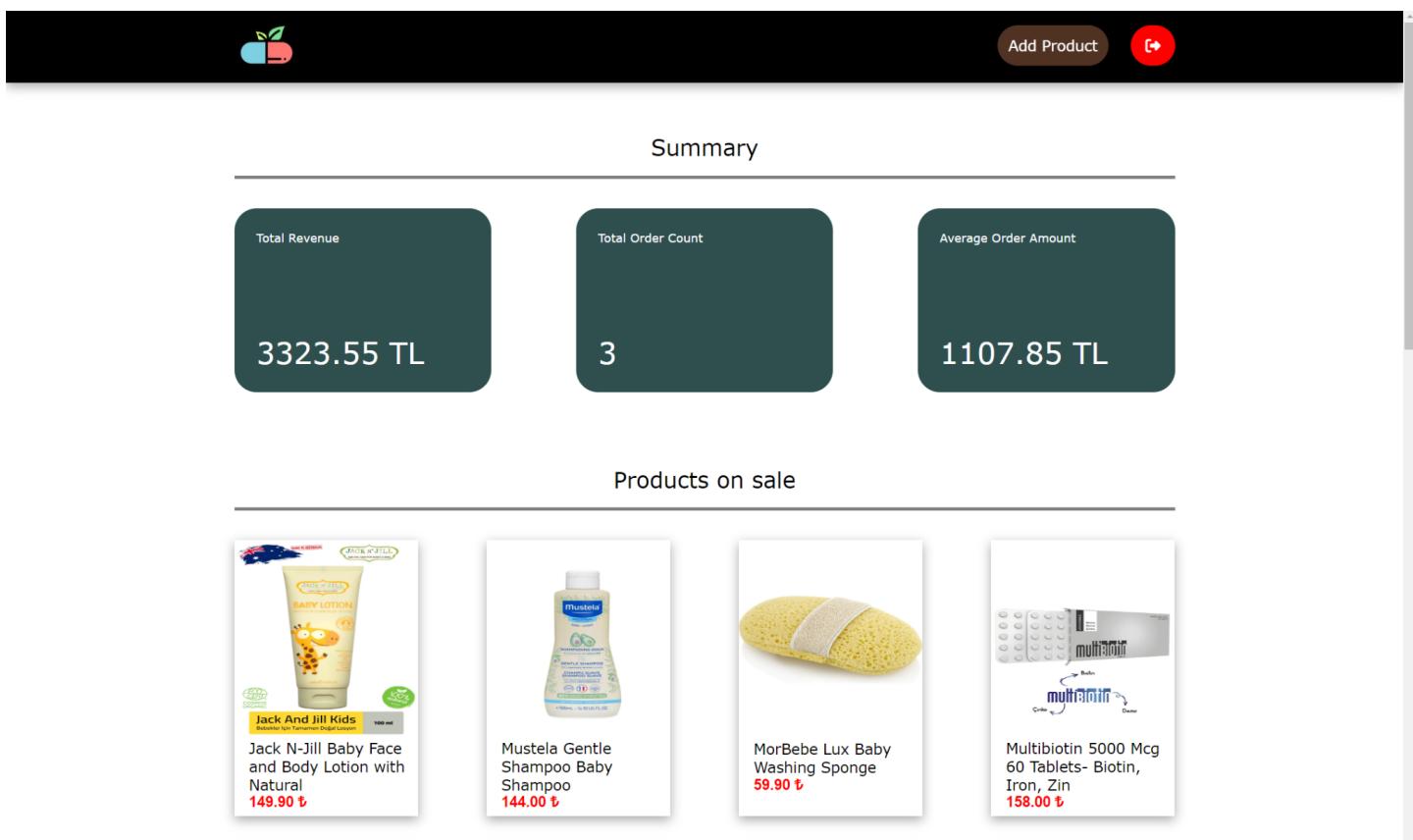
Password

Address
Bilgi Üniversitesi

Update my information

For admin entry:

- In login.php, enter email: **admin** and password: **admin** for reaching admin panel
- See your total revenue, total order count and average order amount.



Summary

Total Revenue
3323.55 TL

Total Order Count
3

Average Order Amount
1107.85 TL

Products on sale



Jack N-Jill Baby Face and Body Lotion with Natural
149.90 ₺



Mustela Gentle Shampoo Baby Shampoo
144.00 ₺



MorBebe Lux Baby Washing Sponge
59.90 ₺



Multibiotin 5000 Mcg 60 Tablets-Biotin, Iron, Zin
158.00 ₺

- Click the product you want to edit, then change product information

Edit Product

Product Name

Price

Photo Url

Description

It has all-natural ingredients.
Since our skin is exposed to external factors from the moment we are born, many babies, children and adults may experience skin deformation and need a light moisturizer to help heal and protect the skin.
We recommend this ultra-precise formula for newborns.

Delete Product

Edit Product

- Click add product button for adding new product to database.

Add Product

Product Name

Price

Photo Url

Category

Cleaners

Description

Add Product

2- Project Scope

In our application **users** are able to:

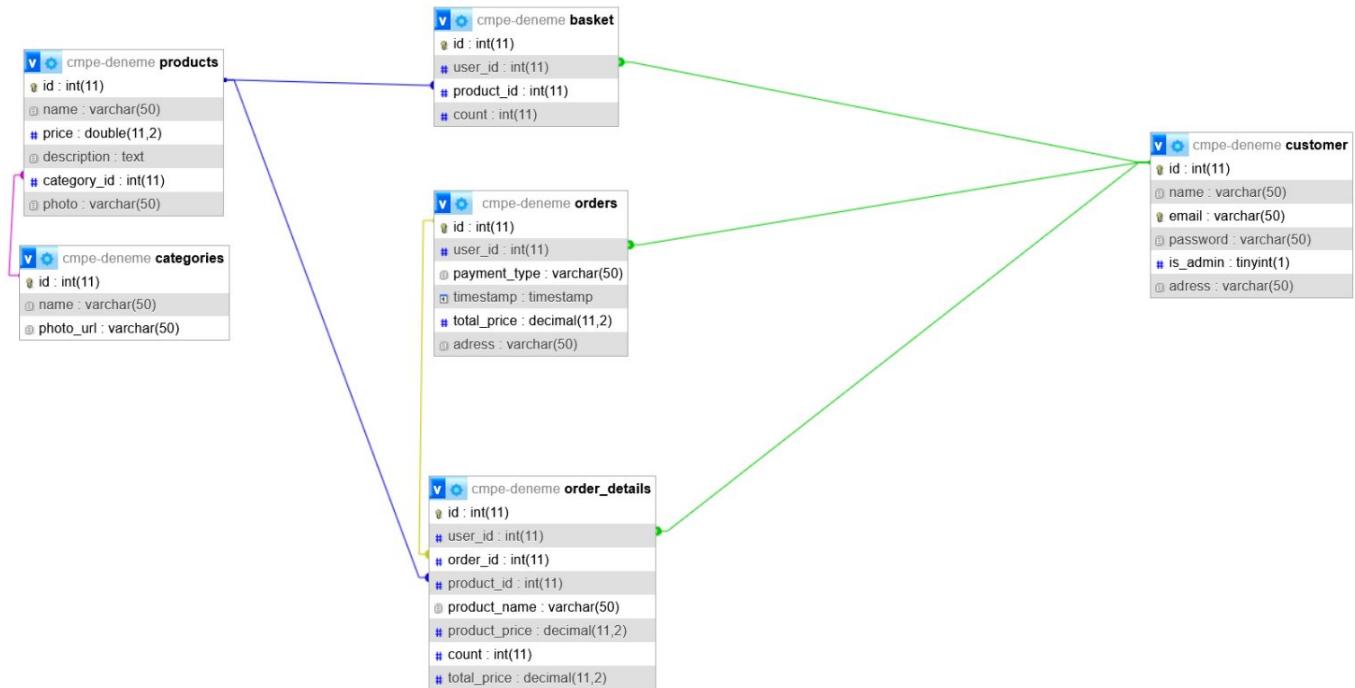
- Register
- Login
- Display categories
- Display products details
- Add products to their basket
- Order their basket
- Display their previous orders

Admin is able to:

- Display total orders
- Display total revenue
- Display average revenue per order
- Add new products to database
- Edit previously added product information

3- Database and Server Design

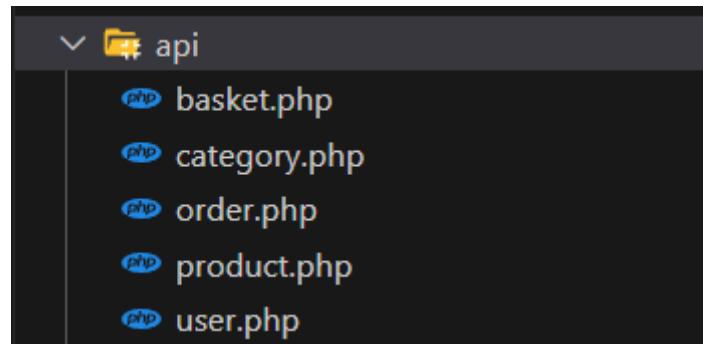
First, our group decided the scope and requirements of the application. Next, we started to design our server and database according to application needs.



ER Diagram of database group2

Our application required a **database**, consisting of 6 tables which are **customer**, **basket**, **orders**, **order_details**, **products** and **categories**. We created that **database**.

Next, we created required **API endpoints** for our application under **/api** folder of our project.



/api folder structure

We kept every process that runs between **database** and **server** in this folder. Every endpoint returns a **JSON** that includes **status** and **data** properties. In the **data** property, we store the **information** that the client requested.

```
JSON Raw Data Headers
Save Copy Collapse All Expand All Filter JSON
code: 200
data:
  0:
    id: "40"
    name: "Jack N-Jill Baby Face and Body Lotion with Natural"
    price: "149.90"
    description: "It has all-natural ingredients.\nSince our skin is exposed to external factors from the moment we are born, many babies, \nchildren and adults may experience skin deformation and need a light moisturizer to help heal and protect the skin.\nWe recommend this ultra-precise formula for newborns."
    category_id: "6"
    photo: "public/jack.jpg"
  1:
    id: "39"
    name: "Mustela Gentle Shampoo Baby Shampoo"
    price: "144.00"
    description: "Chamomile extract shampoo, suitable for use from birth, is specially formulated for fine and sensitive hair . \nof babies and children\nThe 500 ml bottle is ideal for daily washing and easy combing of the hair of newborns, babies and children,\nincluding newborns leaving the neonatal intensive care unit. \nleaves a uniquely pleasant scent on the skin\nrinses easily and does not sting"
    category_id: "6"
    photo: "public/mustela.jpg"
  2:
    id: "38"
    name: "MorBébe Lux Baby Washing Sponge"
    price: "59.90"
    description: "Rubberized Baby Washing Sponge, The elastic band of this specially designed product allows you to use\nit with one hand while your other hand is free to hold the baby. \nIt allows you to wash your baby safely and comfortably. It is both a practical and a pleasant accessory."
    category_id: "6"
    photo: "public/morbabebe.jpg"
```

An example JSON response coming from GET request to api/product.php

```
if ($req_method == "GET") {
    $sql = "SELECT * FROM products ORDER BY id DESC";
    $result = mysqli_query($conn, $sql);
    $rows = [];
    while ($row = mysqli_fetch_assoc($result)) {
        $rows[] = $row;
    }
    header("Content-type: application/json");
    echo json_encode(["code" => 200, "data" => $rows]);
    exit;
}
```

An example api/product.php code block that returns all products as JSON

4- User Interface Design

We designed user interfaces using **HTML**, **JavaScript**, **JQuery** and **CSS** only. Additionally we used **Adobe Photoshop** for editing our custom images.

We separated our user interface related files in 4 folders. Our base folder contains **HTML** files, **/js** folder contains our **JavaScript** code, **/styles** folder contains our **CSS** files, and **/public** folder contains our **images**.



Folder structure for user interface of application

In every **module**, we put **static data** in the **page** hard coded and get **dynamic data** from the **database** via **AJAX** calls.

```
function getProducts(selection) {
  $.ajax({
    url: `api/product.php?category_id=${id}&sort_by=${selection}`,
    type: "get",
    success: function (response) {
      const count = response.count;
      const data = response.data;
      $("#count").empty();
      $("#products").empty();
      $("#count").append(count + " products found");
      response.data.forEach((product) => {
        $("#products").append(`

          <div id="container">      You, 2 weeks ago • snapshot ...
            <div onClick="redirectProduct(id)" id = ${product.id}
              class= "bestseller__item" >
                <img class="bestseller__item__image" src=${product.photo}
              </div>
              <div id="product_name">${product.name}</div>
              <div class="bestseller__item__price">${product.price}
            </div>
            <div class="add_to_basket ${product.id} + "add"
              onmousedown=mouseDown(${product.id
            })>Add to basket</div>
          </div >
        `);
      });
    },
  });
}
```

An example AJAX GET request for rendering products

5- Division of Labor

At least one module of application is designed by each group member. Our division of modules between group members is given in the picture below.

1	/admin/add-product.php	öykü
2	/admin/edit-product.php	öykü
3		
4	/admin/index.php	musab
5	/basket.php	musab
6		
7	/category.php	helin
8	/product.php	helin
9		
10	/order-detail.php	eray
11	/previous-orders.php	eray
12	/order-confirmed.php	eray
13		
14	/index.php	ömer
15	/profile.php	ömer
16		
17	/register.php	everyone
18	/login.php	everyone

6- Total Time Spent for Project

1 - 10 May / Discussing **roadmap** for project

10 - 12 May / Designing **database**

12 - 15 May / Designing **api endpoints**

15 - 25 May / Designing **user interfaces**

25 - 28 May / **Testing** and preparing **presentation**

In total, we spent **4 weeks** on this project.

7- References

- public/baby-banner.png
Self-made / Öykü Türksel
- public/cilt-banner.png
Self-made (Öykü türksel)
- public/hero.png
Self-made (Öykü Türksel)
- public/vitamin-banner.jpg
Self-made / Öykü Türksel
- public/logo.png
Self Made (Eray Yakar)
- public/logo2.png
Self Made (Eray Yakar)
- public/agarta.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty847/product/media/images/20230426/8/332617137/500847989/1/1_org_zoom.jpg
- public/baby-care.png
<https://www.biaderma.ca/en/your-skin/very-dry-sensitive-skin-prone-atopy/very-dry-skin-prone-atopic/what-happens-very-dry-skin-and-how-can-you-reduce-discomfort>
- public/bepanthol.jpg
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- public/cerave.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty806/product/media/images/20230330/16/31542975/2/573185729/1/1_org_zoom.jpg
- public/cleaners.jpg
https://img.freepik.com/free-photo/skin-care-concept-with-beautiful-woman_23-2148131143.jpg?w=1800&t=st=1685370124~exp=1685370724~hmac=c376198126acf100cc92ea5ff7a05915ae3446e373745ddbe52c1b645c5c118f
- public/cleansers.png
https://www.freepik.com/free-photo/close-up-blonde-model-using-face-cream_5682774.htm#page=8&query=pads%20moisturizer&position=8&from_view=keyword&track=ais
- public/colgate-toothpaste.jpg
https://cdn.cimri.io/image/1000x1000/colgatetotalprofesyonelaktifetkimldimacunu_641566724.jpg
- public/colgate-total.jpg
<https://cdn.akakce.com/colgate/colgate-total-profesyonel-dis-eti-sagligi-50-ml-z.jpg>
- public/dental-care.jpg

https://www.google.com/search?q=colgate+total12&source=lnms&tbo=isch&sa=X&ved=2ahUKEwiK04SU1Jr_AhV_SPEDHcKMBZcQ_AUoAXoECAEQAw&biw=1728&bih=1019&dpr=1.25#imgrc=8dxSrJwW7s3QqM

- public/face-care.png
https://static6.depositphotos.com/1001960/648/i/600/depositphotos_6487305-stock-photo-beautiful-wet-woman-face-with.jpg
- public/farmasi.jpg
<https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcQslpmlvnpf2zCo8X3roAfvyxjU2wHYn41Pvb1Xu1T-tSJCnUiD>
- public/hair-care.png
<https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcSDhmavZH9TZy7iKauL4a06k2RbG1V0W3PkI0O9jZM8W8QnLaU>
- public/jack.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty831/product/media/images/20230418/11/32737668/4/914176874/1/1_org_zoom.jpg
- public/la-roche.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty661/product/media/images/20221223/19/24519185/5/6629936/1/1_org_zoom.jpg
- public/maruderm.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty865/product/media/images/20230504/18/33980092/1/882290162/1/1_org_zoom.jpg
- public/morbebe.jpg
https://m.media-amazon.com/images/I/71wtbaXHXoL._AC_SL1500_.jpg
- public/morfose.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty555/product/media/images/20221008/10/18913859/4/258014582/1/1_org_zoom.jpg
- public/multibiotin.jpg
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- public/mustela.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty172/product/media/images/20210906/15/12676482/2/9190607/1/1_org_zoom.jpg
- public/neutrogena.jpg
<https://productimages.hepsiburada.net/s/372/500/110000389791831.jpg>
- public/nivea.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty881/product/media/images/20230511/23/34616565/7/516021516/1/1_org_zoom.jpg

- public/pharmaton.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty517/product/media/images/20220826/15/166053943/115893404/1/1_org_zoom.jpg
- public/solgar.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty810/product/media/images/20230403/13/317575837/347423159/1/1_org_zoom.jpg
- public/urban.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty507/product/media/images/20220815/17/160326684/544680809/1/1_org_zoom.jpg
- public/vitamins.png
[https://www.verywellhealth.com/thmb/n7XK0aYilpk1RZV2eC9vmz1Ept0=/1500x0/filters:no_upscale\(\):max_bytes\(150000\):strip_icc\(\)/best-vitamins-and-supplements-for-skin-health-tout-0fc0a9fb953e45118e7c0fce71815715.jpg](https://www.verywellhealth.com/thmb/n7XK0aYilpk1RZV2eC9vmz1Ept0=/1500x0/filters:no_upscale():max_bytes(150000):strip_icc()/best-vitamins-and-supplements-for-skin-health-tout-0fc0a9fb953e45118e7c0fce71815715.jpg)
- public/xsmile.jpg
https://cdn.dsmaxcdn.com/mnresize/1200/1800/ty504/product/media/images/20220811/23/158085977/172559352/1/1_org_zoom.jpg