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Software Engineering

Sweet Shop

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ABSTRACT

We're working on an idea that will be greatly useful to others.

You're looking for a concert sweet late at night, but it's difficult to know if these sweets are available in the nearby store. Our project provides information about which sweets are now available via an app. It also tells the customer when the cookies were baked and how long they've been on the store. It's also important to mention that you may easily and rapidly order products using this app. Additionally, you can check the status of your order and see it in live time via.

Following that, you can access a variety of offers and savings using this app.

Google translation :

نحن نعمل على فكرة ستكون مفيدة للغاية للآخرين. أنت تبحث عن حلوى في وقت متأخر من الليل، ولكن من الصعب معرفة ما إذا كانت هذه الحلويات متوفرة في المتجر القريب. يوفر مشروعنا معلومات حول الحلويات المتوفرة حالياً عبر تطبيق. كما يخبر العميل بوقت خبز الكوكيز ومدة وجودها في المتجر. من المهم أيضًا أن نذكر أنك تستطيع بسهولة وسرعة طلب المنتجات باستخدام هذا التطبيق. بالإضافة إلى ذلك، يمكنك التحقق من حالة طلبك ورؤيته في الوقت الفعلي عبر التطبيق. علاوة على ذلك، يمكنك الوصول إلى مجموعة متنوعة من العروض والتخفيضات باستخدام هذا التطبيق .

Team translation :

نحن نعمل على فكرة مفيدة للآخرين, في حال كنت/ي تبحث /ي عن متجر حلوى في آخر الليل ولكن من الصعب معرفة ما إذا كانت هذه الحلويات متوفرة في المتجر القريب, مشروعنا يوفر معلومات حول الحلويات المتوفرة في الوقت الحالي من خلال التطبيق, كما و يخبر العميل عن وقت خبزها ,وكم من الوقت قضت في المتجر .وأيضاً من المهم ذكره أنه من خلال التطبيق بالإمكان طلب المخبوزات والحلويات بسهولة وسرعة .بالإضافة الى تتبع الطلب والتحقق من حالته من خلال التطبيق . وبعد ذلك، الوصول إلى مجموعة متنوعة من العروض وتوفير للمال باستخدام هذا التطبيق..

Introduction

Due to the popularity of the internet there is a rise in the development of web apps in the recent years. Especially, businesses are finding web apps as the most convenient way for their employees to work flexibly. Irrespective of the location, the web apps allow staffs to carry out their works.

Developing a web app is way cheaper compared to other types of app developments. They don't require much time for the development as that of a mobile app. Therefore, a single version of a web app is able to support several operating systems.

Purpose :

Our goal is to provide a seamless solution for anyone who wants to order sweets through the store during the day or late at night through our application.

Among the most important goals of our project:

1- Saving time: Our application saves the user from going to sweet shops, standing in long lines, and waiting until his turn comes to inquire about a type of sweets, whether it is available or not, or even to buy sweets.

2- Ensuring food quality: The application allows users to know baking times and how long the product will remain in the store. This ensures that users receive fresh foods of the best quality.

3- Ease and comfort of use: Through our application, the user can order sweets with a few clicks, easily and quickly, and without the need to stand in line.

4-Offers and discounts: The application aims to obtain fresh foods of high quality at special prices for those who want to order through our offers on the application

5- Track the status of the order: Through our application, the user can track the status of his order comfortably without the need to communicate with the store owners only through the application

Over view :

Our app lets you quickly check which sweets are available nearby, including details on when they were baked and how long they've been on the shelves. Satisfy your late-night sweet cravings with ease!

With our app, you can quickly check which sweets are currently available in nearby stores. What sets us apart is that we not only tell you what's in stock but also provide details on when these sweets were baked and how long they've been on the store shelves. This ensures that you get the freshest treats possible. But we don't stop there. Ordering is made incredibly easy through our app. With just a few taps, you can place your order and even track its status in real-time, No more waiting in line , And the benefits don't end there. We offer exclusive offers and savings that you can access through the app.

In essence, our app is your one-stop solution for all things sweet – from knowing what's available to ordering conveniently and saving money while you're at it. It's the perfect companion for any late-night cravings or dessert emergencie

Project Scope

The app we are developing will enable customers to view all available options and types of sweets , and then place an order through the system. Customers will be able to add or remove items from the shopping cart and specify their preferred payment method.

The system will also allow shop owners to update and make changes to their products. Staff will be able to generate reports such as monthly sales reports.

The target groups of the project:

All people in general but specially the owners of sweets shops.

CHAPTER 2: PRELIMINARY LITERATURE REVIEW

Projects similar to our project such as:

- **Eshtreeli Application:** is a food delivery application, displays a range of restaurants and menus for each restaurant and prices of all the food and offers offered in it, and the time of preparing the taste and also how long

delivery from the restaurant to the customer's place, and also offers available from them according to the time we want to order , Is there a service that you can write in an item of notes, what do we charge you, for example (charging an electric card or a mobile phone, restaurants that are not supported by the application, clothes, shoes, accessories, office or electronic items, etc.) Response We estimate the price of the service and the difference in collection for you from us during the journey of bringing the offer. The price may increase or decrease according to what we estimate 3- This service is not included in any discounts or discount codes or your delivery service 4- The store bears all responsibility for the quality, health and preparation of the goods, not The application has no responsibility.

- **HungerStation Application:**

  It is one of the applications for delivering premium restaurant orders, and the promotion of an evaluation on Google Play has a great popularity in the Gulf states.

  It delivers all restaurants in the Kingdom and Bahrain, and supports delivery in more than 70 regions and there is a plan to expand to other countries it is the largest food ordering platform in the region where it supports more than 10,000 restaurants.

  Before applying for a food delivery, you must select the area where you live and then start choosing the best restaurant deals and choosing fresh meals at the right price for you

The application of the food delivery service HungerStation, the money can be paid upon receipt of the litigation by a representative and you can pay the money to the delegate or from the ATM with the important observation that in the event of a delayed order from the restaurant or delivery representative it gives you the cancellation of the purchase immediately.

- **Talabat :**

This app is the largest of its kind in the entire Middle East and offers you a wide range of options to extinguish your hunger. When talabat first opens, choose your location so the app can view nearby options. One of the advantages of using this app is the ability to check restaurants by region, and take a closer look at what's around you so you can order exactly what you want. With this app, you can pay for your orders immediately, even if you don't have money.

Ordering food through this app is special and it's impossible to lose anything with it.

- **Elmenus :**

There is a large team followed by elmenus application for Android to deliver food and fast food orders in most cities and provinces of Egypt, where this application uses more than a million people, after gaining

their confidence in the fast delivery and offers it offers, in addition to the presence of famous restaurants for various types of food, sweets and cake, where you can through the program to know the opinion of users of some foods offered by the restaurant, especially after evaluating it as the best applications delivery orders by some customers, as it offers a distinctive and simple interface And easy to use.

- **DoorDash :**

DoorDash ranks number 1 on our list of the top 10 best food delivery apps in 2020. DoorDash is available for both iOS and Android and charges a flat fee of $5.99. DoorDash is an American on-demand prepared food delivery service founded in 2013 by Stanford students Tony Xu, Stanley Tang, Andy Fang, and Evan Moore. Currently, DoorDash operates in Australia, Canada, and the United States and employs around 7,549 people worldwide. DoorDash is currently worth more than USD 16 billion and is the largest third-party food delivery service in the USA, surpassing Grubhub in 2019. Last year, DoorDash brought in revenues of USD 900 million — making it one of the top food delivery services apps by revenue.

Founded: 2013

DoorDash Revenue: USD 900 million

DoorDash Market Cap: USD 16 billion

DoorDash Headquarters: California, USA

DoorDash Number of employees: 7,549

DoorDash Delivery Service Fee: $5.99 flat fee

CHAPTER 3: METHODOLOGY (PROCESS MODEL), REQUERMENTS

3.1 : METHODOLOGY (PROCESS MODEL) :

We used the waterfall model, so that the customer gives the full design of his order and what he needs and make sure of the specifications he wants, so that the customer does not change his mind after the completion of the specification process and so as not to lose time, effort and cost and then start work and development, so that the stage of specifications and development is separate from each other .

3.2 : Requirements :

User requirements:

The user enters the system and enters the name and password and address and then moves to the other interface and contains more than one list, the list of cities and sweets stores in each city, the displayed items, the prices of the items displayed in each store and the offers in the store, the other list is to order cakes and sweets with special specifications, The system asks for a description of the shape it wants, its color, the percentage of sugar, is it allergic to any food, the size of the cake, and does it want toppings next to the cake, and there is a box for writing notes and opinion, and another list for diabetics that contains sweets made in a special way so that diabetics can eat them .

Order requirements:

When the customer orders the order he wants, the customer must specify the quantity he wants from the store he wants to order from and specify the items and flavor he wants. Also, does he suffer from any sensitivity to any of the foods, and does he want additions beside the cake, such as cupcakes, biscuits, etc, and specify the time and day he wants to receive the order, and there is a special box in which to put his notes.

Delivery requirements:

The delivery company must have the customer’s name, address in detail, phone number, and the time period during which the order will reach the customer. When the delivery company receives the order, they must inform the customer that the order has been issued, and tell them when it will arrive (how long it takes to arrive), The delivery company is also aware of the payment method.

Payment requirements:

The user chooses the payment method he wants like Visa Card, Paypal or Jawwwal Pay, or pays the delivery company when he receives the order. If he chooses a Visa card, he must put the bank account, and if he chooses Paypal or Jawwal Pay, he must enter a phone number , and if he chooses to pay the delivery company, the delivery company will be informed of that.

System requirements:

The user enters the system and asks him to register in the system by placing the private Gmail in it, the name, the phone number and the address. For sweets stores, the items available in them, the prices of items and offers, and we show him the best stores according to the customers' vote and opinion in the store, and the time that the delivery company needs to deliver the customer's order, and when choosing the second menu, which is a cake request according to the customer's specifications, where the customer writes a description of the order he wants, for example he wants Request a cake, in the description box, include the formal specifications of the cake, its color, size, sugar content, filling and flavors, and does he want it with sugar paste or cream, and the additions he wants beside the cake, such as cupcakes, biscuits, etc. He writes the shape, flavor and color of the toppings, and in the notes field he writes his notes on the order, for example, is he allergic to some foods (some people are allergic to pistachios) and does he want additions, and a date box The day on which he wants the order, and there is a written note to users that they must order at least one day in advance, and there is another menu for diabetics, where specially made sweets are available to suit their needs and then press the order confirmation, and the user can modify his order within 3 hours After that, the request is finally confirmed.

4.1: USE CASE Diagrams

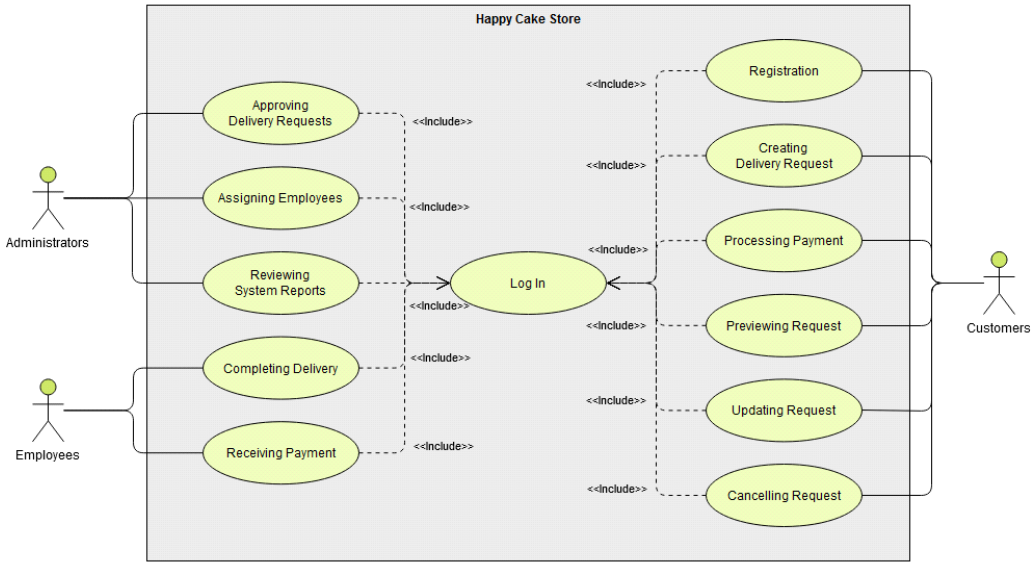

Figure 3 USE CASE Diagrams

4.2: Activity Diagrams

- **Registration request**

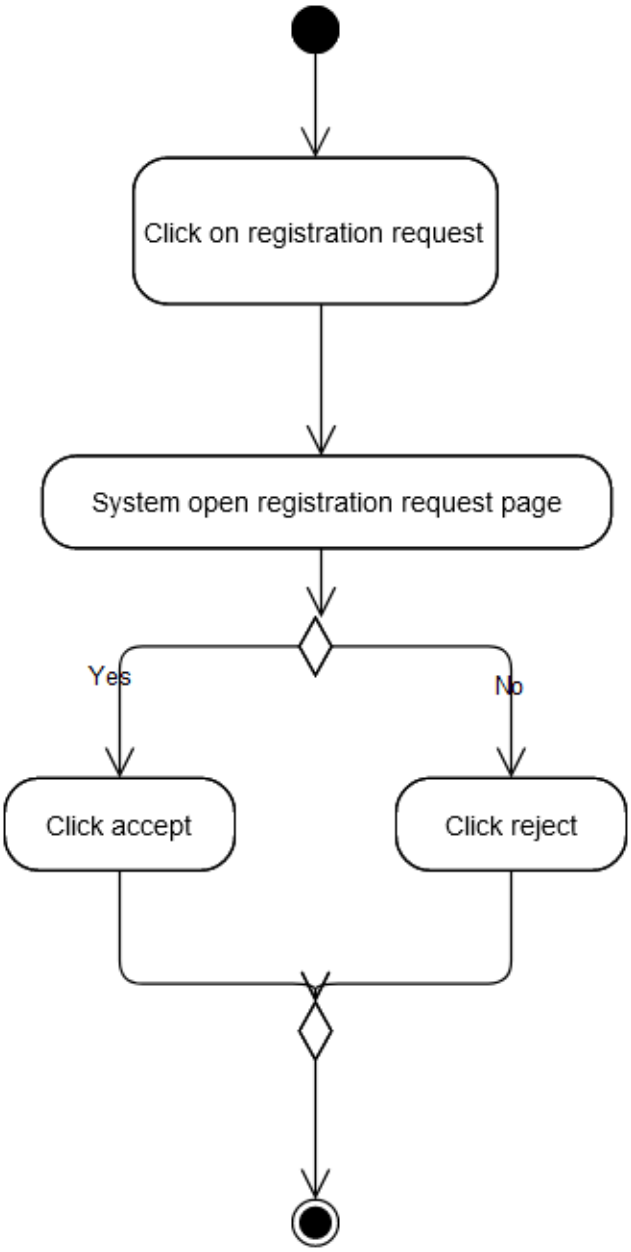

Figure 4 Registration request

4.3 :Sequence Diagram

- Place Order

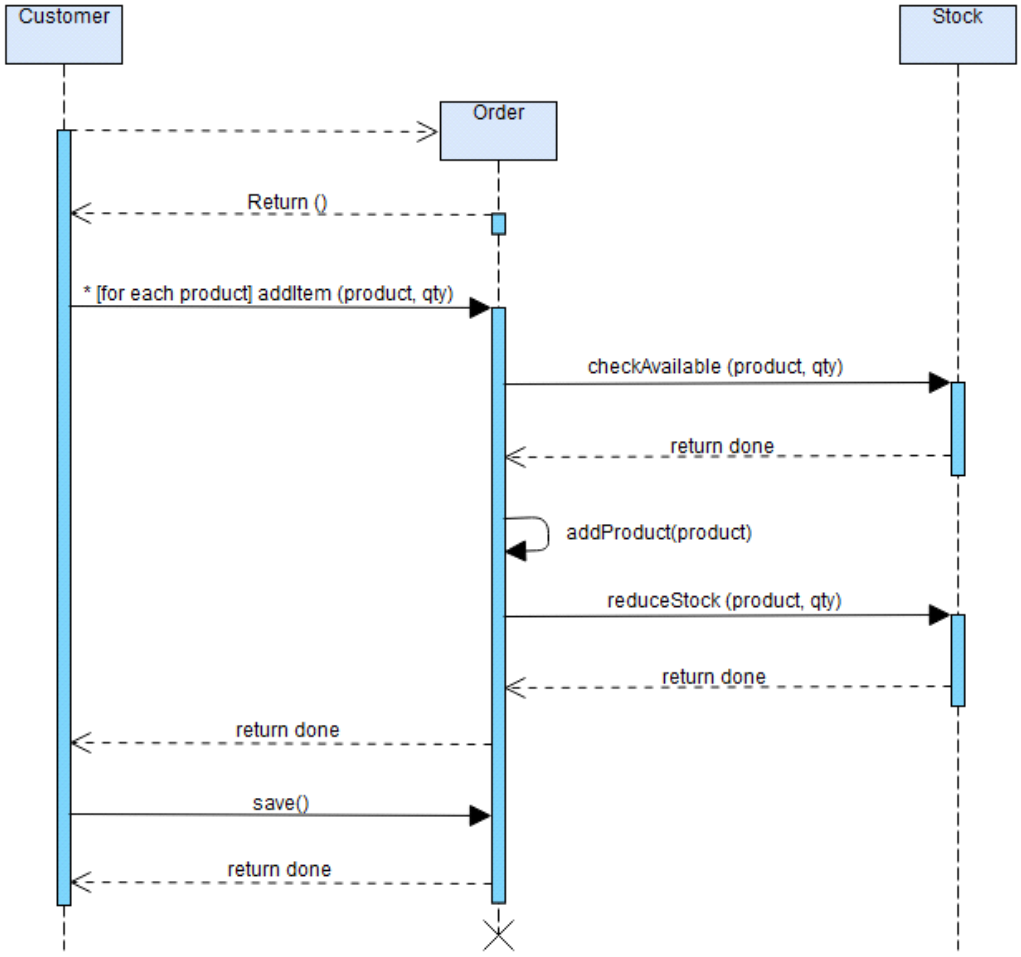

Figure 5 Place Order

4.4: class diagram

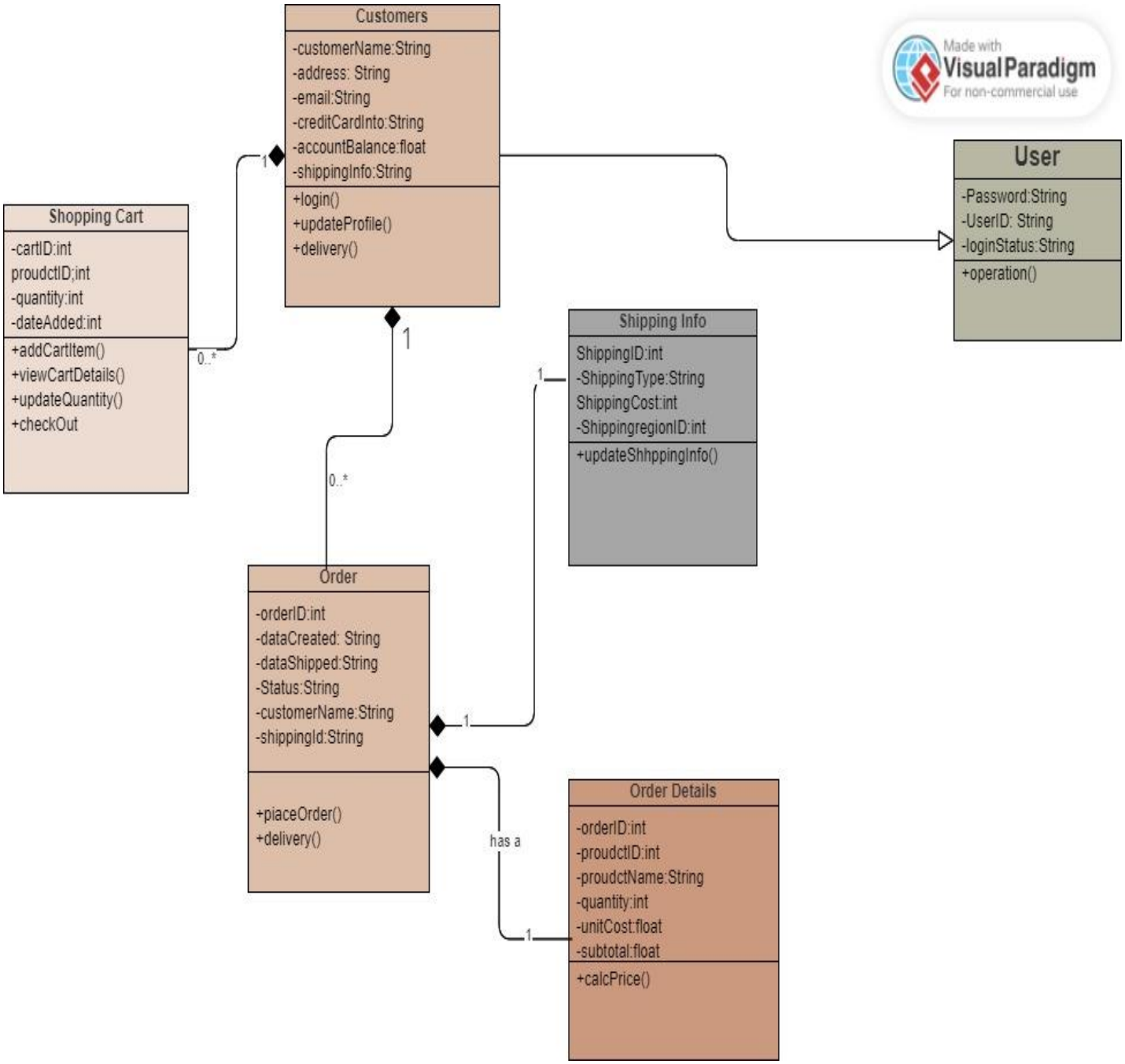

Figure 6 class diagram

Conclusion:

At the end of Interested in researching, in which we made an effort that we did not spare for others, and in which we paid the utmost of our energy in order for this research to be comprehensive and fulfilling all the axes and topics that we touched upon in it, we ask God to make this research a guide and reference for every researcher interested in research in this topic (Cake stores), and we have been keen to provide all the information from the official and reliable references, as we have clarified all the ambiguous points in the research, we ask you to forgive the shortcomings and errors and ask God Almighty that the profits from this research are more than the losses for all readers and those interested.

Challenges:

Life is not easy and we always face obstacles, but we must face and challenge these obstacles in order to achieve the goals we want

One of the most important challenges or obstacles we faced:

1. Make the decision to start
2. Small project implementation plan and economic feasibility
3. lack of liquidity
4. Small business competition in the market

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BizVibe جوجل – موقع

Team member work:

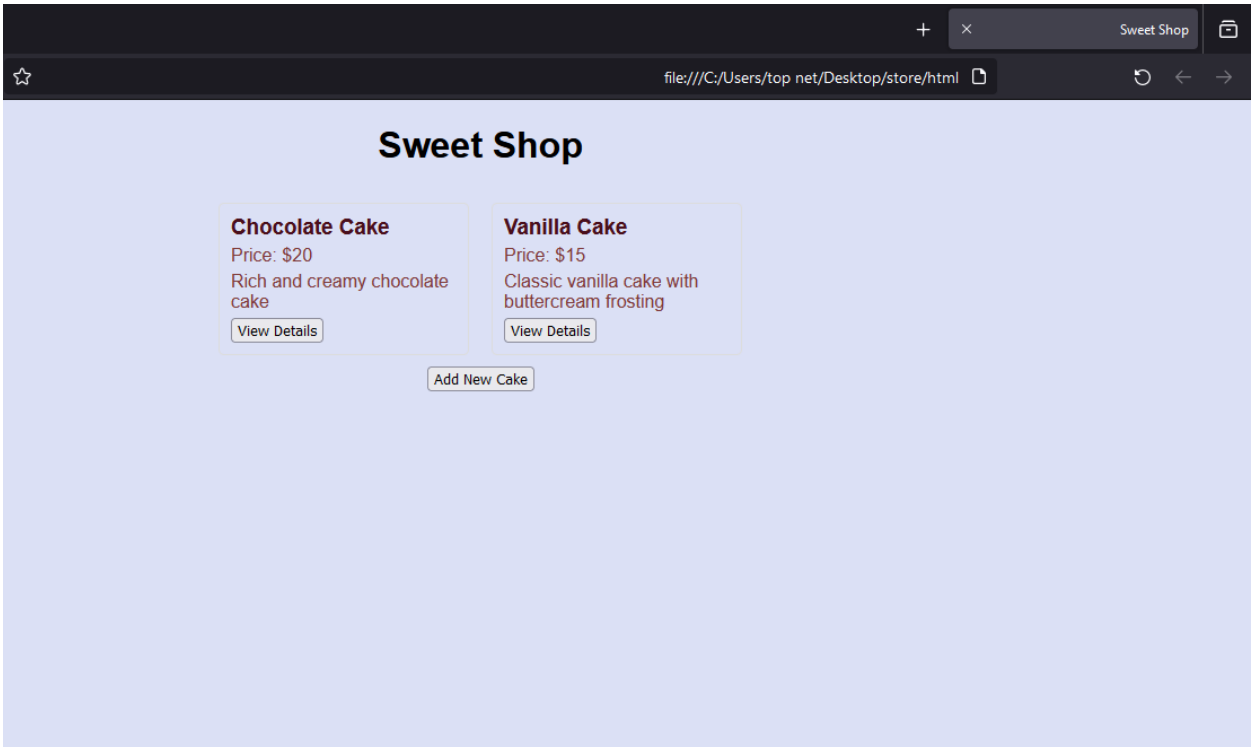
Ameera Hussain : Ch2

Dalia Ghunim : Ch4 and project design

Diana Hussain : Ch3 & Ch5

Haneen Khaleel : Ch1

Implementation



HTML

Welcome | html

html > html > body > div.container > div#cake-list

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sweet Shop</title>
    <link rel="stylesheet" href="css">
</head>
<body>
    <div class="container">
        <h1>Sweet Shop</h1>

        <div id="cake-list">
            <!-- Cakes will be displayed here -->
        </div>
        <button onclick="showAddCakeForm()">Add New Cake</button>

        <div id="add-cake-form" class="form-container" style="display: none;">
            <h2>Add a New Cake</h2>
            <label for="cake-name">Name:</label>
            <input type="text" id="cake-name"><br>
            <label for="cake-price">Price:</label>
            <input type="number" id="cake-price"><br>
            <label for="cake-description">Description:</label>
            <textarea id="cake-description"></textarea><br>
            <button onclick="addCake()">Add Cake</button>
            <button onclick="hideAddCakeForm()">Cancel</button>
        </div>
    </div>

    <script src="js"></script>
</body>
```

CSS

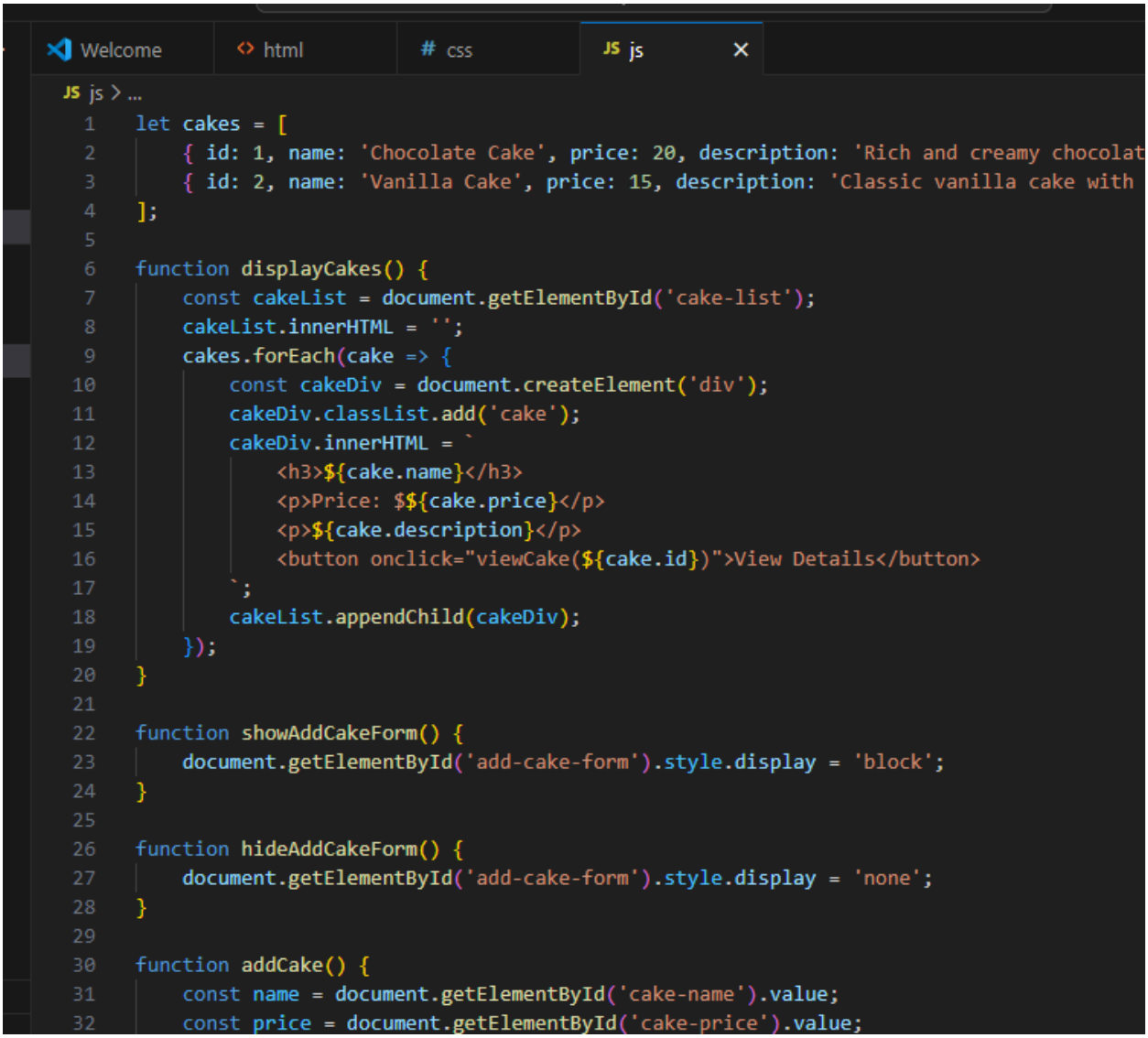
Welcome | html | # css | js

css > .container

```css
body {
    font-family: Arial, sans-serif;
    background-color: rgb(219, 224, 245);
}

.container {
    width: 80%;
    margin: auto;
    text-align: center;
}

.form-container {
    margin-top: 20px;
}

#cake-list {
    display: flex;
    flex-wrap: wrap;
    justify-content: center;

}

.cake {
    border: 1px solid #ddd;
    border-radius: 5px;
    padding: 10px;
    margin: 10px;
    width: 200px;
    text-align: left;
    color: #803b3b;
}
```

```
        width: 200px;
        text-align: left;
        color: #803b3b;
    }

    .cake h3 {
        margin: 0;
        color: rgb(73, 15, 28);
    }

    .cake p {
        margin: 5px 0;
    }
```

JS


Welcome
html
css
js
JS js > ...
let cakes = [
{ id: 1, name: 'Chocolate Cake', price: 20, description: 'Rich and creamy chocolat
{ id: 2, name: 'Vanilla Cake', price: 15, description: 'Classic vanilla cake with
];
function displayCakes() {
const cakeList = document.getElementById('cake-list');
cakeList.innerHTML = '';
cakes.forEach(cake => {
const cakeDiv = document.createElement('div');
cakeDiv.classList.add('cake');
cakeDiv.innerHTML = `
<h3>${cake.name}</h3>
Price: $${cake.price}
${cake.description}
<button onclick="viewCake(${cake.id})">View Details</button>
`;
cakeList.appendChild(cakeDiv);
});
}
function showAddCakeForm() {
document.getElementById('add-cake-form').style.display = 'block';
}
function hideAddCakeForm() {
document.getElementById('add-cake-form').style.display = 'none';
}
function addCake() {
const name = document.getElementById('cake-name').value;
const price = document.getElementById('cake-price').value;

JS

Welcome | html | # css | JS js

JS > ...

```
}

function addCake() {
    const name = document.getElementById('cake-name').value;
    const price = document.getElementById('cake-price').value;
    const description = document.getElementById('cake-description').value;
    const newCake = {
        id: cakes.length + 1,
        name: name,
        price: parseFloat(price),
        description: description
    };
    cakes.push(newCake);
    displayCakes();
    hideAddCakeForm();
}

function viewCake(cakeId) {
    const cake = cakes.find(cake => cake.id === cakeId);
    if (cake) {
        alert(`Name: ${cake.name}\nPrice: $${cake.price}\nDescription: ${cake.description}`);
    } else {
        alert('Cake not found');
    }
}

document.addEventListener('DOMContentLoaded', () => {
    displayCakes();
});
```