Documentation for Project

👥 Owner	ⓘ Iskander
☰ Tags	

Name: Sadykov Iskander

P-number: 2893134

Group: Computing 2

Topic for Project Work

The theme for my project work was to make a website with a collection of culinary recipes.
The task of the project work was:
Recipe Collection
Description: Create a recipe website displaying multiple recipes in a grid format.
Key Features:
Each recipe opens in a modal or new section, displaying ingredients and preparation steps
Filtering options by category (e.g., Breakfast, Dinner, Dessert)
Attractive layout with recipe cards

Design

My website is designed in a minimalistic style. The color scheme is represented by three main colors: the background color is white; the main color is #DF321B; the text color is #222222. In addition to these three primary colors, shades of gray are also used. The size of the text-font varies from 15px to 22px and the size of the title-font from 25px to 42px. The website design was designed and implemented in Figma. I used the following websites as an example:

https://cooking.nytimes.com/
Link to the design project in Figma:

https://www.figma.com/design/n3mvAPZtkBIFt2v2eiVPja/Recipes-Website-Design?node-id=0-1&t=ypkQ1CzYTKwbmAUf-1

Website's Architecture

For more convenient use, the entire project was divided into the main page and auxiliary pages. The need to divide into different pages lies in the fact that each dish has its own unique recipe and a list of products that are necessary for its preparation, which is why it was impossible to place all the recipes on one page. Therefore, I have allocated a separate page for each recipe. Just a few dishes were also divided into three main groups: Breakfast, Lunch and Dinner, as well as other additional categories: Sushi, Pasta, Main Courses, Dinner and Desserts.

Header

There is a header at the top of each page. The header is necessary for easier site navigation. For example, in my header, when clicking on the logo and Home, the user returns to the main page, when clicking on Categories, the user goes to a page with five categories Sushi, Pasta, Main Dishes, Dinner and Desserts. When you click on the name of each category, it goes to the corresponding page with recipes related to the selected category.
Also in the header there are two buttons Sign In and Subscribe Now and Save, when clicked, the user gets to the registration page where he can choose two ways to log in: sign in or create account.

Footer

There is a footer on every page at the bottom, except for the account login page. The footer contains a brief description of the site, five additional categories, social media icons and the company's address.

Main Page

The main page of the project can be divided into three sections: hero-section, slider-section and categories section. The website was divided into these sections using the tag `<section> </section>`.

Hero Section

The Hero-section is made according to the Image-Hero-section type. It displays the "Recipe Of The Day" along with a photo of the dish, the name and a brief description.You can go to the page of a certain dish by clicking on the name of the dish. The transition to the page of the dish is carried out through

`<a href=""></a>` This is done using the `<div>` tags and assigning them the necessary size and location parameters using CSS.

Slider Section

The Slider-section consists of five slides, each with a photo and the name of the dish. You can go to the page of a certain dish in the same way as in the hero-section by clicking on the name of the dish. The transition to the page of the dish is carried out through `'
The slider is navigated by clicking on the buttons at the bottom of the slider. When pressed, the animation of the image change occurs. This animation is made using JavaScript and CSS.

Categories Section

This section contains various recipes placed in grid-format. To place the recipes in the grid-format, I used CSS and separation using the `<div>` tag

```css
.container{
display: grid;
grid-template-columns: repeat(auto-fit, 300px);
gap: 20px;
justify-content: center;
}
```

As in the previous sections, the transition to the page of the dish occurs through `<a href=""></a>`

Recipes Categories

This page of the site presents five categories of recipes: Sushi, Pasta, Main Dishes, Dinner and Desserts. When you click on the name of each category, it goes to the corresponding page with recipes related to the selected category. Recipes as well as B. categories-section are located in the grid-format.

Recipes List

The user can access this page by clicking on Recipes in the header. By going to the page, the user will see all the recipes that are presented in the project in grid-format. The main feature of this page is the ability to set a filter for three parameters: Breakfast, Lunch and Dinner. Thanks to this, the user can choose

which recipes he wants to see.

Clicking on Show All will show all the recipes.

Clicking on Breakfast will show all recipes from this category.

Clicking on Lunch will show all the recipes from this category.

Clicking on Dinner will show all the recipes from this category.

This function was implemented using `data-name and data-filter` and Javascript functions.

```javascript
const filterButtons = document.querySelectorAll("#filter-buttons button");
const filterableCards = document.querySelectorAll("#filterable-cards .recipe-cardlist");
const filterCards = (e) => {
document.querySelector("#filter-buttons .active").classList.remove("active");
e.target.classList.add("active");
filterableCards.forEach(card => {
if(card.dataset.name === e.target.dataset.filter || e.target.dataset.filter === "all") {
return card.classList.replace("hide", "show");
}
card.classList.add("hide");
});
}
filterButtons.forEach(button => button.addEventListener("click", filterCards));
```

About

This page is designed in the same style as the hero-section from the main page. This page contains a description of the website, address, email and mobile phone number.

Sign In & Up Page

This page allows the user to fill out a form to register or log in to an existing account. The main feature of this page is the form validation. When filling out the form, if the user does not fulfill all the conditions of the form, he will be shown a warning that the form is filled out incorrectly. For example, if in the

form of filling out an email, the user enters an email without a special sign -
"@", the user will receive a warning that the email is filled in incorrectly.
This feature was implemented through a JavaScript function:

```javascript
document.getElementById('signUpForm').addEventListener('submit', function (e) {
e.preventDefault(); // Prevent the default form submission

// Get form inputs
const username = document.getElementById('username');
const email = document.getElementById('email');
const password = document.getElementById('password');
let isValid = true;

// Clear previous errors
document.querySelectorAll('.error').forEach(error => error.textContent = '');

// Validate Username
if (username.value.trim().length < 3) {
isValid = false;
username.nextElementSibling.textContent = 'Username must be at least 3 characters long.';
}

// Validate Email
const emailRegex = /^[^\\s@]+@[^\\s@]+\\.[^\\s@]+$/;
if (!emailRegex.test(email.value.trim())) {
isValid = false;
email.nextElementSibling.textContent = 'Please enter a valid email address.';
}

// Validate Password
if (password.value.trim().length < 6) {
isValid = false;
password.nextElementSibling.textContent = 'Password must be at least 6 characters long.';
```

```
  }

  // Submit the form if all fields are valid
  if (isValid) {
  alert('Form submitted successfully!');
  this.submit(); // Proceed with form submission
  }
  });
```

Recipe Pages

These pages provide a brief description of the dish, a list of necessary ingredients and how to cook this dish correctly.

The main feature of these pages is the ability to rate each recipe. The user can give a five-star rating, where one star is the lowest rating and five stars is the highest. There is also a calculation of the ratings that the user gives to this recipe.

The evaluation of recipes and the calculation of ratings are carried out thanks to JavaScript functions:

```
// Function for Star Rating
const stars = document.querySelectorAll(".stars i");
stars.forEach((star, index1) => {
star.addEventListener("click", () => {
stars.forEach((star, index2) => {
index1 >= index2 ? star.classList.add("active") : star.clas
sList.remove("active");
});
});
});

// Function for rating counting
let count = 0;
document.getElementById("stars").onclick = function(){
count+=1;
document.getElementById("countLabel").innerHTML=count;
}
```

The page itself can be divided into two sections: hero-section in which you can see the name of the dish, the image of the dish, brief information, cooking time, rating and number of ratings. In the recipe-section, the user sees a list of products necessary for cooking and detailed instructions on how to cook this dish.

Conclusion

In total, the project consists of almost 30 recipes with a detailed description and cooking recipe.
The entire project was executed using HTML, CSS and JavaScript. The website design was done in the Figma program. The recipes and photos of the dishes were taken from open sources under the right of fair use.
All images and necessary files (.html,.css,.js) have been placed in the appropriate folders for the convenience of the organization.

References List

SushiSushi (2024) *Japanese food ingredients, kitchenware & Tableware | SushiSushi*.Available at: https://www.sushisushi.co.uk/
NYT Cooking (2024)
Recipes and cooking guides from The New York Times. Available at: https://cooking.nytimes.com/
Delish.com (2024)
Recipes, party food, cooking guides, dinner ideas.
Available at:
https://www.delish.com/
Katana (2023)
Simple, useful and incredibly tasty - exquisite recipes from Katana.Available at: https://katana.ua/en/recipes/
Just One Cookbook (2024)
Just one cookbook · Japanese food and recipe blog.Available at:https://www.justonecookbook.com/
W3Schools.com (2024) HTML Tutorial.Available at: https://www.w3schools.com/html/default.asp
MDN Web Docs (2024) HTML and CSS Tutorials. Available at: https://developer.mozilla.org/en-US/
W3Schools.com (2024) JavaScript Tutorial.Available at: https://www.w3schools.com/js/