**MAKALAH TUGAS AKHIR**

**PEMROGRAMAN WEB I**



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PROGRAM STUDI INFORMATIKA

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**1. Pendahuluan**

Pada tugas akhir pemrograman web kami membuat suatu web bertemakan advertisement barang, dimana pengguna bisa mempromosikan barang di web kami sehingga barang mereka semakin mudah untuk dijual. Alasan kami memilih tema ini dikarenakan kami ingin memberi tantangan ke diri kami untuk membuat suatu program web yang biasanya dibuat di sebuah perusahaan dimana menggunakan database dan bahasa program yang sulit. Ini juga melatih kami untuk disiplin dalam mengerjakan tugas ini karena dengan menantang diri kami maka kami dapat memikirkan program kami dengan matang.

Program kami tersusun atas interface Login, Sign In, Add Items, Profile, Item Details, About us, dan Home. Masing-masing interface memiliki fungsi masing-masing, di login dimana pengguna harus memasukkan username dan password mereka dengan benar agar bisa mengakses Add Items, Profile, dan Item details. Di Sign up dimana si pengguna memasukkan data pribadi mereka agar bisa membuat akun pribadi, data tersebut disimpan menggunakan database. Lalu di Add items dimana si pengguna harus login dulu ke web kami agar bisa mengakses fasilitas ini, fungsinya untuk memasukkan barang atas nama dia agar bisa diiklankan di bagian home. Add items menyimpan data dengan menggunakan database agar tetap tersimpan walaupun sudah keluar dari web. Lalu profile menyimpan info pribadi pengguna, untuk menggunakan fasilitas ini haruslah login dulu ke web kami. Item details juga sama dimana harus login dulu ke web kami lalu masukkan barang di add items. Lalu About us untuk menginformasikan pembuat web tersebut dan yang terakhir home dimana interface awal di project web kami. Home berisikan list item yang sudah dimasukkan di add items lalu terdapat navbar dengan berbagai fungsi dan terdapat sidebar dan juga topbar.

Untuk menggunakan program kami dengan semaksimal mungkin pertama setelah di home langsung sign up dengan menekan tombol avatar lalu sidebar akan muncul setelah itu klik sign up untuk pergi ke interface sign up. Setelah sign up lalu ke login dengan back ke home lalu menekan tombol avatar lagi untuk login. Lalu setelah login berhasil kembali ke home dan tekan add items di side bar lalu isilah data mengenai barang anda dengan lengkap. Setelah itu anda dapat melihat item anda muncul di home. Klik item anda untuk melihat item details, dan klik profile di side bar untuk melihat profile anda dan yang terakhir klik about us di navbar home untuk melihat informasi mengenai pembuat web lalu klik kategori di navbar untuk membuka topbar yang berisikan kategori barang yang diisi di add items.­­

**2. Instalasi**

1. Install XAMPP **8.2.0**

2. Hidupkan server Apache dan phpMyAdmin dari XAMPP Control

3. Masukkan file project ke folder “htdocs” XAMPP

4. Buat akun phpMyAdmin dengan username “giftshopriro”, password “robert2975”, dan semua *privileges*.

5. Buka Database “giftshopriro” → Tab Import → Choose File

6. Temukan file “database.sql” dan tekan OK

7. Instalasi selesai dan website bisa dibuka dari <https://localhost/home.html>

\*. Jika muncul tulisan “Connection Unsafe”/“Koneksi Tidak Aman”, tekan Advanced/Lanjut, lalu klik Go To Site Anyway yang digarisbawahi.

**3. Screenshot Interface dan Coding Web**

1. HTML

1.1 AboutUs.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Among Us</title>

<style>

body {

overflow: hidden;

}

.title {

position: relative;

left: 2cm;

top: 0.5cm;

color: white;

font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;

font-size: 1.5cm;

z-index: 1;

}

.header {

border-radius: 0.5cm;

background-color: black;

width: 100%;

height: 3cm;

z-index: -2;

position: relative;

top: -0.7cm;

}

.content {

border-radius: 0.5cm;

background-color: black;

width: 100%;

position: relative;

height: 10cm;

}

.footer {

position: relative;

top: 0.3cm;

border-radius: 0.5cm;

left: 14cm;

background-color: black;

width: 8cm;

height: 3cm;

}

.profile-left {

position: relative;

top: -4cm;

left: 8.5cm;

font-size: 20px;

font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;

color: white;

}

.profile-right {

position: relative;

top: -7cm;

left: 25.5cm;

font-size: 20px;

font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;

color: white;

}

.header-rightline {

margin-right: 1cm;

margin-left: 8.5cm;

position: relative;

top: -1.4cm;

height: 5px;

background-color: white;

z-index: 0;

}

.header-leftline {

margin-left: 0.4cm;

width: 47px;

position: relative;

height: 5px;

z-index: 0;

background-color: white;

top: 1.9cm;

}

.vertical-left {

border-left: 1px solid white;

height: 8cm;

position: absolute;

top: 1cm;

left: 8cm;

}

.vertical-right {

border-left: 1px solid white;

height: 8cm;

position: absolute;

top: 1cm;

left: 25cm;

}

.avatar-left {

position: relative;

top: 2cm;

left: 1cm;

width: 6cm;

}

.avatar-right {

position: absolute;

top: 2cm;

left: 18cm;

width: 6cm;

}

.background-image {

position: absolute;

width: 100%;

height: 100%;

z-index: -2;

top: -0.1cm;

left: -0.1cm;

}

.logo-image {

position: fixed;

top: 14.8cm;

left: 17cm;

margin: auto;

}

.footer-top {

position: absolute;

color: red;

top: 0.45cm;

left: 1.2cm;

font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;

}

.footer-bottom {

position: absolute;

color: aqua;

top: 0.4cm;

left: 5cm;

font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;

}

</style>

</head>

<body>

<img src="resources/vecteezy\_white-background\_dp1220.jpg" class="background-image" alt="">

<hr class="header-leftline">

<div class="header">

<strong>

<h1 class="title">About Us</h1>

</strong>

<hr class="header-rightline">

</div>

<div class="content">

<img src="resources/foto\_rivaldo.jpg" class="avatar-left" alt="Rivaldo">

<div class="vertical-left"></div>

<p class="profile-left">

Name &emsp;&emsp;&nbsp;&nbsp;: Rivaldo

<br>

Occupation : MDP University Student

<br>

Hobby &emsp;&emsp;&nbsp;: Coding, Playing video <br>

&emsp;&emsp;&emsp;&emsp;&emsp;&nbsp;&nbsp;&nbsp;&nbsp;games, Reading

</p>

<img src="resources/foto\_robert.jpeg" class="avatar-right" alt="Robert">

<div class="vertical-right"></div>

<p class="profile-right">

Name &emsp;&emsp;&nbsp;&nbsp;: Robert

<br>

Occupation : MDP University Student

<br>

Hobby &emsp;&emsp;&nbsp;: Programming, RPGs<br>

&emsp;&emsp;&emsp;&emsp;&emsp;&nbsp;&nbsp;&nbsp;&nbsp;Fantasy genre

</p>

</div>

<div class="footer">

<h1 class="footer-top">The</h3>

<a href="home.html" class="logo-image">

<img src="resources/The\_StoreLogo3.png" alt="The\_Store"

style="width: fit-content; height: 2cm; padding: 10px;">

</a>

<h1 class="footer-bottom">Store</h3>

</div>

</body>

</html>

1.2 AddItems.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Adding New Item</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.css">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.js"></script>

<style>

body {

margin: 0;

background-color: aliceblue;

font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;

}

.greeting {

position: relative;

left: 3cm;

top: -2.2cm;

width: fit-content;

font-family: initial;

}

.background-image {

position: absolute;

width: 30cm;

right: 0cm;

bottom: -5cm;

z-index: -1;

}

</style>

</head>

<body onload="setGreeting()">

<div class="row">

<a href="home.html" class="col">

<img src="resources/The\_StoreLogo3.png" alt="The\_Store"

style="width: fit-content; height: 3cm; padding: 10px;">

</a>

<h1 class="greeting col-9" id="greeting"></h1>

</div>

<img src="resources/Abstract triiangle.png" class="background-image" alt="border">

<form class="container-fluid needs-validation form" novalidate>

<div class="row mb-3">

<label for="inputTitle" class="col-sm-2 col-form-label">Judul Item</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="inputTitle" value="" required>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="row mb-3">

<label for="inputKategori" class="col-sm-2 col-form-label">Kategori item</label>

<div class="col-sm-5">

<select class="form-select" id="inputKategori" aria-label="Default select example" required>

<option value="1">Alat Rumah Tangga</option>

<option value="2">Buku</option>

<option value="3">Teknologi</option>

<option value="4">Alat Sekolah</option>

<option value="5">Alat Furniture</option>

<option value="6">Alat Kantor</option>

<option value="7">Alat Kamar Mandi</option>

<option value="8">Alat Peliharaan</option>

<option value="99" selected>Other</option>

</select>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="mb-4">

<label for="inputDetail" class="form-label">Description</label>

<textarea class="form-control" id="inputDetail" rows="5" required></textarea>

<div class="valid-feedback">

Confirmed!

</div>

</div>

<div class="row mb-3">

<label for="inputImageURL" class="col-sm-2 col-form-label">URL Gambar Produk</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="inputImageURL" value="" required>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="row mb-3">

<label for="inputLinkURL" class="col-sm-2 col-form-label">URL Produk</label>

<div class="col-sm-5">

<input type="text" class="form-control" id="inputLinkURL" value="" required>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<br>

<div id="response"></div>

<button type="button" class="btn btn-primary m-auto" onclick="addItem()">Add Item</button>

<br><br>

</form>

<script>

const inputTitle = document.getElementById('inputTitle');

const inputDetail = document.getElementById('inputDetail');

const inputImageURL = document.getElementById('inputImageURL');

const inputLinkURL = document.getElementById('inputLinkURL');

const inputKategori = document.getElementById('inputKategori');

const username = sessionStorage.getItem("username");

const authToken = sessionStorage.getItem('authToken');

const lastLogin = sessionStorage.getItem('lastLogin');

function setGreeting() {

if (username == null) {

window.location.replace("login.html");

return;

}

document.getElementById("greeting").innerHTML = "Adding items as " + username;

}

function addItem() {

let u = username;

let a = authToken;

let date = lastLogin;

let t = inputTitle.value;

let d = inputDetail.value.replace(/\n\r?/g, '<br />').replace(/'/g, '&lsquo;');

let i = inputImageURL.value;

let l = inputLinkURL.value;

let k = inputKategori.value;

let data = "username=" + u + "&authToken=" + a + "&lastLogin=" + date + "&title=" + t + "&detail=" + d +

"&typeID=" + k + "&imageURL=" + i + "&linkURL=" + l;

var urlCheck = "check.php";

var xhrCheck = new XMLHttpRequest();

xhrCheck.onload = function () {

const responseCheck = this.responseText;

if (responseCheck == 'True') {

//document.getElementById("response").innerHTML =

// `<a class='text-decoration-none text-dark' href='./AddItems.html'>Successfully authenticate self.</a>`;

var urlAdd = "add.php";

var xhrAdd = new XMLHttpRequest();

xhrAdd.onload = function () {

const responseAdd = this.responseText;

if (responseAdd == 'True') {

//document.getElementById("response").innerHTML =

// `<a class='text-decoration-none text-dark' href='./AddItems.html'>Successfully added item.</a>`;

} else {

document.getElementById("response").innerHTML =

`<a class='text-decoration-none text-dark' href='./AddItems.html'>Registration failed due to ${responseAdd} Please try again.</a>`;

}

}

xhrAdd.open("GET", urlAdd + "?" + data, true);

xhrAdd.setRequestHeader("Content-Type", "application/json; charset=utf-8");

xhrAdd.send(data);

} else {

document.getElementById("response").innerHTML =

`<a class='text-decoration-none text-dark' href='./login.html'>Authentication failed due to ${responseCheck} Please try again.</a>`;

}

}

xhrCheck.open("GET", urlCheck + "?" + data, true);

xhrCheck.setRequestHeader("Content-Type", "application/json; charset=utf-8");

xhrCheck.send(data);

}

// Example starter JavaScript for disabling form submissions if there are invalid fields

(() => {

'use strict'

// Fetch all the forms we want to apply custom Bootstrap validation styles to

const forms = document.querySelectorAll('.needs-validation')

// Loop over them and prevent submission

Array.from(forms).forEach(form => {

form.addEventListener('submit', event => {

if (!form.checkValidity()) {

event.preventDefault()

event.stopPropagation()

}

form.classList.add('was-validated')

}, false)

})

})()

</script>

</body>

</html>

1.3 home.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>The Store</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.css">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.js"></script>

<style>

body {

--carousel-background-side-offset: 0.5cm;

--carousel-background-width: calc(100vw - 2\*var(--carousel-background-side-offset));

}

@import url('https://fonts.googleapis.com/css2?family=Kanit:wght@300&display=swap');

.sidebar {

height: 100%;

width: fit-content;

position: fixed;

z-index: 3;

margin-left: -100%;

top: 0;

left: 0;

background-color: #111;

overflow-x: hidden;

padding-top: 60px;

}

.sidebar img {

margin: auto;

display: block;

}

.sidebar a {

padding: 8px 32px 8px 32px;

text-decoration: none;

font-size: 25px;

color: #818181;

display: block;

transition-duration: 0.3s;

width: 5cm;

}

.sidebar a:hover {

color: #f1f1f1;

}

.sidebar .close-button {

color: white;

position: absolute;

width: fit-content !important;

top: 0;

right: 0.3cm;

margin: 0;

padding: 8px 8px 8px 8px;

font-size: 50px;

margin-left: 50px;

}

.topbar {

width: 100%;

position: fixed;

z-index: 1;

top: 0;

left: 0;

right: 0;

background-color: black;

overflow-x: hidden;

margin-top: -100%;

}

.topbar .close-button {

color: white;

position: absolute;

top: 0;

right: 0.5cm;

font-size: 50px;

margin-left: 50px;

}

.topbar a {

padding: 8px 8px 8px 32px;

text-decoration: none;

font-size: 25px;

color: #818181;

display: block;

transition-duration: 0.3s;

}

.topbar a:hover {

color: #f1f1f1;

}

.avatar {

vertical-align: middle;

width: 50px;

height: 50px;

}

#navbar {

position: fixed;

top: 0;

width: 100%;

transition-duration: 0.7s;

z-index: 2;

margin-top: 0;

}

.openbtn:hover {

background-color: #444;

}

#greeting {

font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;

font-size: min(calc(3vw + 2px), 30px);

align-items: center;

margin-inline-start: min(0.75cm, 3vw);

}

.content {

margin-top: 2.2cm;

}

.carousel {

top: -6.25cm;

margin: auto;

width: 16cm;

height: 8cm;

z-index: 0;

}

.carousel-inner {

width: 16cm;

height: 8cm;

z-index: 0;

}

.carousel-item {

transition: transform 0.2s ease-in-out;

}

.item-button {

text-decoration: none;

color: black;

width: fit-content;

}

.item-button img {

height: 6cm;

}

.item-button:hover {

background-color: none;

text-decoration: none;

}

.card {

width: 6cm;

}

#content .container-fluid {

width: fit-content;

}

@font-face {

font-family: Kanit;

src: url(sansation\_light.woff);

}

.container-margin {

padding: 1cm;

}

.background-image {

position: fixed;

z-index: -2;

}

.carousel-background {

position: relative;

top: 3cm;

height: 10.5cm;

background-color: #444;

z-index: 0;

vertical-align: middle;

}

.carousel-background img {

vertical-align: middle;

position: absolute;

top: 50%;

transform: translateY(-50%);

height: fit-content;

max-height: 10.5cm;

max-width: 35.2cm;

margin-inline-start: max(calc((100vw - 35.2cm)/2), var(--carousel-background-side-offset));

width: var(--carousel-background-width);

}

.category-button {

font-size: larger;

}

</style>

</head>

<body onload="setGreeting(); loadItems();" onscroll="closeNavbar()">

<img src="resources/Blue-Abstract-Design-PNG-Picture.png" class="background-image" alt="back1">

<div class="carousel-background">

<img src="resources/abstract neuron2.png" alt="neuron">

</div>

<div id="carouselExampleInterval" class="carousel slide carousel-fade" data-bs-ride="carousel">

<div class="carousel-inner Eimg">

<div class="carousel-item active bg-dark h-100 m-auto text-center" data-bs-interval="4000">

<h1 class="d-flex text-light m-auto" style="width: 9cm; height: 1cm; "><br> Grand Opening <br> THE\_STORE is now Online</h1>

</div>

<div class="carousel-item bg-dark h-100 m-auto text-center" data-bs-interval="4000">

<h1 class="d-flex text-light m-auto" style="width: fit-content; height: fit-content; font-family: monospace; font-size: 1.2cm; ">

<br> For the next 3 days <br>All items Discount <br> for 40%</h1>

</div>

<div class="carousel-item bg-dark h-100 m-auto text-center" data-bs-interval="4000">

<h1 class="d-flex text-light m-auto" style="width: fit-content; height: fit-content; font-family:cursive; font-size: 1.2cm; ">

<br><br>Enjoy Shopping!!!</h1>

</div>

</div>

<button class="carousel-control-prev" type="button" data-bs-target="#carouselExampleInterval"

data-bs-slide="prev">

<span class="carousel-control-prev-icon" aria-hidden="true"></span>

<span class="visually-hidden">Previous</span>

</button>

<button class="carousel-control-next" type="button" data-bs-target="#carouselExampleInterval"

data-bs-slide="next">

<span class="carousel-control-next-icon" aria-hidden="true"></span>

<span class="visually-hidden">Next</span>

</button>

</div>

<div id="sidebar" class="sidebar">

<a href="javascript:void(0)" class="close-button" onclick="closeSidebar()">×</a>

<img id="sidebar-avatar" src="resources/AvatarMale.png" class="mb-4 rounded-circle" alt="Avatar"

style="width: 3cm; height: 3cm; ">

<a href="login.html">Login</a>

<a href="signIn.html">Sign In</a>

<a id="profile-link" href="#">Profile</a>

<a id="add-item-link" href="#">Add Item</a>

<a href="AboutUs.html">About Us</a>

</div>

<div class="topbar" id="topbar">

<a href="javascript:void(0)" class="close-button" onclick="closeTopbar()">×</a>

<div class="row" id="types">

</div>

</div>

<nav id="navbar" class="navbar navbar-expand-lg bg-light">

<a class="ms-3" href="home.html">

<img src="resources/The\_StoreLogo3.png" alt="The\_Store"

style="width: fit-content; height: 2cm; padding: 10px;">

</a>

<h1 class="greeting flex-fill" id="greeting"></h1>

<button class="bg-light category-button" style="border: none; " onclick="openTopbar()">Kategori</button>

<button class="bg-light border-0 me-3" onclick="openSidebar()">

<a><img src="resources/AvatarMale.png" alt="Avatar" class="avatar rounded-circle" id="navbar-avatar"></a>

</button>

</nav>

<div id="content">

<br>

</div>

<div id="response"></div>

<script>

const sidebar = document.getElementById("sidebar");

const topbar = document.getElementById("topbar");

const navbar = document.getElementById("navbar");

const sidebarAvatar = document.getElementById("sidebar-avatar");

const navbarAvatar = document.getElementById("navbar-avatar");

const profileLink = document.getElementById("profile-link");

const addItemLink = document.getElementById("add-item-link");

var isSidebarOpened = false;

var isTopbarOpened = false;

var prevScrollPosition = window.pageYOffset;

const greeting = document.getElementById("greeting");

const username = sessionStorage.getItem("username");

const avatar = sessionStorage.getItem("avatar");

const content = document.getElementById('content');

const types = document.getElementById('types');

var numberOfItemColumns = 5;

var numberOfItemRows = 999;

var numberOfTypeColumns = 3;

var numberOfTypeRows = 999;

function setGreeting() {

if (username == null) {

greeting.innerHTML = "Welcome to the jungle!";

sidebarAvatar.setAttribute("src", "resources/AvatarMale.png");

navbarAvatar.setAttribute("src", "resources/AvatarMale.png");

profileLink.setAttribute("href", "login.html");

addItemLink.setAttribute("href", "login.html");

return;

}

greeting.innerHTML = "Welcome back, " + username;

sidebarAvatar.setAttribute("src", avatar);

navbarAvatar.setAttribute("src", avatar);

profileLink.setAttribute("href", "Profile.html");

addItemLink.setAttribute("href", "AddItems.html");

}

function loadItems() {

/\*let value = window.location.href;

value = value.split('?');

if(value.length > 1){

let auth = value.pop().split('&');

sessionStorage['T\_username'] = auth[0].split('=').pop();

sessionStorage['T\_authToken'] = auth[1].split('=').pop();

}\*/

//rencananya kami mau buat cara untuk login lewat urlnya, seperti

//kalau github atau discord bisa pakai auth token, tapi setelah

//dipiki-pikir lagi, ya, agak nggak cocok untuk aplikasi yang hanya

//menampilkan iklan. github juga loginnya untuk menyimpan file, jadi

//berguna authtoken jika mau cepat login. tapi web ini hanya ada

//menambah item yang perlu login, jadi tidak terlalu penting.

var xhr = new XMLHttpRequest();

var url = "load.php";

let data = "username=" + username;

document.getElementById('content').innerHTML += "<hr><hr>";

xhr.onload = function () {

const response = JSON.parse(this.responseText);

const loggedIn = (sessionStorage['username'] == null) ? 0 : 1;

document.getElementById('content').innerHTML += "<hr><hr>";

let topbarContent = `<div class="col-4 mt-3 mb-1">`;

let mainContent = ``;

if (response.response == "True") {

numberOfTypeRows = Math.floor((response.types.length) / numberOfTypeColumns + 1);

for (let a = 0; a < response.types.length - 1 + loggedIn; a++) {

let type = response.types[a];

topbarContent += `<a href="home.html#${type.typeName}">${type.typeName}</a>`;

mainContent += `

<h2 class="ms-3" id="${type.typeName}">${type.typeName}</h2>

<hr>

<table class="container-fluid container-margin">

<tr>`;

if (a % numberOfTypeRows == numberOfTypeRows - 1) {

topbarContent += `</div><div class="col-4 mt-3 mb-1">`;

}

for (let b = 0; b < type.items.length; b++) {

let item = type.items[b];

mainContent += `

<td>

<a href="itemDetails.html?id=${item.itemID}" class="item-button">

<div class="card">

<img src="${item.imageURL}" class="card-img-top" alt="${item.title}">

<div class="card-body">

<p class="card-text">${item.title}</p>

</div>

</div>

</a>

</td>

`;

if (b % numberOfItemColumns == numberOfItemColumns - 1) {

mainContent += `</tr><tr>`;

}

}

mainContent += `</table>`;

}

types.innerHTML = topbarContent + `</div>`;

content.innerHTML = mainContent + `</tr></table><br>`;

} else {

content.innerHTML +=

`<a href='./login.html'>Failed to load items. ${response.response} Please try again.</a> <br><hr>`;

}

console.log(this.responseText);

}

xhr.open("GET", url + "?" + data, true);

xhr.setRequestHeader("Content-Type", "application/json; charset=utf-8");

xhr.send(data);

}

function openSidebar() {

sidebar.style.transitionDuration = "0.5s";

sidebar.style.marginLeft = "0";

if (isTopbarOpened) {

closeTopbar();

}

isSidebarOpened = true;

}

function closeSidebar() {

sidebar.style.transitionDuration = "0.2s";

sidebar.style.marginLeft = "-100%";

isSidebarOpened = false;

}

function openTopbar() {

topbar.style.transitionDuration = "0.5s";

topbar.style.marginTop = "2.2cm";

if (isSidebarOpened) {

closeSidebar();

}

isTopbarOpened = true;

}

function closeTopbar() {

topbar.style.transitionDuration = "0.2s";

topbar.style.marginTop = "-100%";

isTopbarOpened = false;

}

function closeNavbar() {

var currentScrollPos = window.pageYOffset;

if (isTopbarOpened) {

navbar.style.transitionDelay = "0.15s";

} else {

navbar.style.transitionDelay = "0s";

}

if (prevScrollPosition >= currentScrollPos) {

navbar.style.marginTop = "0";

} else {

navbar.style.marginTop = "-100%";

closeTopbar();

}

prevScrollPosition = currentScrollPos;

}

</script>

</body>

</html>

1.4 itemDetails.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=page-title>Item Dpage-title">

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.css">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.js"></script>

<title>Item Details</title>

<style>

body {

background-color: aliceblue;

}

.content-container {

background-color: grey;

}

.content-container h2 {

color: white;

}

.content-container p {

color: white;

}

#display-title {

display: inline-block;

}

.page-title {

display: inline-block;

}

/\* only animate if the device supports hover \*/

@media (hover: hover) {

#creditcard {

/\* set start position \*/

transform: translateY(110px);

transition: transform 0.1s ease-in-out;

/\* set transition for mouse enter & exit \*/

}

#money {

/\* set start position \*/

transform: translateY(180px);

transition: transform 0.1s ease-in-out;

/\* set transition for mouse enter & exit \*/

}

button:hover #creditcard {

transform: translateY(0px);

transition: transform 0.2s ease-in-out;

/\* overide transition for mouse enter \*/

}

button:hover #money {

transform: translateY(0px);

transition: transform 0.3s ease-in-out;

/\* overide transition for mouse enter \*/

}

}

@keyframes bounce {

0% {

transform: translateY(0);

}

50% {

transform: translateY(-0.25rem);

}

100% {

transform: translateY(0);

}

}

.link-button:hover .link-button-text span {

transform: translateY(-0.25rem);

transition: transform .2s ease-in-out;

}

@import url("https://fonts.googleapis.com/css2?family=Lato:wght@300;400&display=swap");

.link-button:active {

transform: translateY(1px);

}

.link-button-svg {

display: inline-block;

overflow: visible;

height: 140%;

min-width: 70px;

margin-top: -250%;

margin-left: -400%;

;

}

.link-button {

overflow: visible;

margin-left: 10px;

border: none;

outline: none;

background-color: purple;

padding: 0.5rem 0rem 0.2rem 0rem;

border-radius: 8px;

letter-spacing: 0.7px;

background-color: #5086bd;

color: #fff;

font-size: 21px;

font-family: "Lato", sans-serif;

cursor: pointer;

box-shadow: rgba(0, 9, 61, 0.2) 0px 4px 8px 0px;

}

.logo-container {

width: fit-content;

}

.logo-container a {

display: block;

width: fit-content;

}

.logo-container a img {

height: 3cm;

}

.title-container {

width: fit-content;

}

</style>

</head>

<body onload="loadItem()">

<div class="header-container d-block row-1 mt-3">

<div class="logo-container d-inline-block col align-top pe-0 ps-5">

<a href="home.html">

<img src="resources/The\_StoreLogo3.png" alt="The Store" style="height: 2.2cm;">

</a>

</div>

<div class="title-container col d-inline-block align-top">

<h1 id="display-title">Item Name</h1><br>

</div>

</div>

<hr>

<div class="content-container clearfix m-1 p-2">

<img class="float-md-start m-2 w-25" id="display-image-url" src="resources/default.jpeg"

alt="default item image m-auto">

<h2>Deskripsi</h2>

<p id="display-detail" class=" m-1">Selama 14 tahun hadir di Indonesia, merek premium cookware ini sudah terjual

sebanyak

3.500.000

unit.

<br>

<br>

Mr Shawn Kim, CEO PT Merdis International, mengatakan bahwa pihaknya sangat senang merayakan hari jadi

Happycall Indonesia yang ke-14.

<br>

<br>

Sejak memasuki pasar Indonesia pada 2008, Shawn Kim mengatakan kalau pihaknya memiliki visi untuk

menghadirkan gaya hidup yang lebih sehat dan lebih bahagia bagi masyarakat Indonesia.

</p>

</div>

<br>

<button id="link-button" class="link-button row">

<span class="link-button-text col d-inline-block">

<span>B</span><span>u</span><span>y</span><span> </span><span>n</span><span>o</span><span>w</span><span>

</span><span>!</span>

</span>

<div class="col-2">

<svg class="link-button-svg" role="presentational" viewBox="0 0 600 600">

<defs>

<clipPath id="myClip">

<rect x="0" y="0" width="100%" height="50%" />

</clipPath>

</defs>

<g clip-path="url(#myClip)">

<g id="money">

<path

d="M441.9,116.54h-162c-4.66,0-8.49,4.34-8.62,9.83l.85,278.17,178.37,2V126.37C450.38,120.89,446.56,116.52,441.9,116.54Z"

fill="#699e64" stroke="#323c44" stroke-miterlimit="10" stroke-width="14" />

<path

d="M424.73,165.49c-10-2.53-17.38-12-17.68-24H316.44c-.09,11.58-7,21.53-16.62,23.94-3.24.92-5.54,4.29-5.62,8.21V376.54H430.1V173.71C430.15,169.83,427.93,166.43,424.73,165.49Z"

fill="#699e64" stroke="#323c44" stroke-miterlimit="10" stroke-width="14" />

</g>

<g id="creditcard">

<path

d="M372.12,181.59H210.9c-4.64,0-8.45,4.34-8.58,9.83l.85,278.17,177.49,2V191.42C380.55,185.94,376.75,181.57,372.12,181.59Z"

fill="#a76fe2" stroke="#323c44" stroke-miterlimit="10" stroke-width="14" />

<path

d="M347.55,261.85H332.22c-3.73,0-6.76-3.58-6.76-8v-35.2c0-4.42,3-8,6.76-8h15.33c3.73,0,6.76,3.58,6.76,8v35.2C354.31,258.27,351.28,261.85,347.55,261.85Z"

fill="#ffdc67" />

<path d="M249.73,183.76h28.85v274.8H249.73Z" fill="#323c44" />

</g>

</g>

<g id="wallet">

<path

d="M478,288.23h-337A28.93,28.93,0,0,0,112,317.14V546.2a29,29,0,0,0,28.94,28.95H478a29,29,0,0,0,28.95-28.94h0v-229A29,29,0,0,0,478,288.23Z"

fill="#a4bdc1" stroke="#323c44" stroke-miterlimit="10" stroke-width="14" />

<path

d="M512.83,382.71H416.71a28.93,28.93,0,0,0-28.95,28.94h0V467.8a29,29,0,0,0,28.95,28.95h96.12a19.31,19.31,0,0,0,19.3-19.3V402a19.3,19.3,0,0,0-19.3-19.3Z"

fill="#a4bdc1" stroke="#323c44" stroke-miterlimit="10" stroke-width="14" />

<path d="M451.46,435.79v7.88a14.48,14.48,0,1,1-29,0v-7.9a14.48,14.48,0,0,1,29,0Z" fill="#a4bdc1"

stroke="#323c44" stroke-miterlimit="10" stroke-width="14" />

<path

d="M147.87,541.93V320.84c-.05-13.2,8.25-21.51,21.62-24.27a42.71,42.71,0,0,1,7.14-1.32l-29.36-.63a67.77,67.77,0,0,0-9.13.45c-13.37,2.75-20.32,12.57-20.27,25.77l.38,221.24c-1.57,15.44,8.15,27.08,25.34,26.1l33-.19c-15.9,0-28.78-10.58-28.76-25.93Z"

fill="#7b8f91" />

<path d="M148.16,343.22a6,6,0,0,0-6,6v92a6,6,0,0,0,12,0v-92A6,6,0,0,0,148.16,343.22Z"

fill="#323c44" />

</g>

</svg>

</div>

</button>

<div id="content">-</div>

<script>

const displayTitle = document.getElementById('display-title');

const displayDetail = document.getElementById('display-detail');

const displayImageURL = document.getElementById('display-image-url');

const displayLinkURL = document.getElementById('link-button');

function loadItem() {

var xhr = new XMLHttpRequest();

var url = "get.php";

let data = window.location.href.split('?').pop();

xhr.onload = function () {

const response = JSON.parse((this.responseText + "").replace('\\', '/'));

//document.getElementById('content').innerHTML += `${(this.responseText + "").replaceAll('\\/','/')}`;

if (response.response == 'True') {

document.title = response.title;

displayTitle.innerHTML = `${response.title}<h4>${response.username}</h4>`;

displayDetail.innerHTML = `${(response.detail + "").replaceAll(/(?:\r\n|\r|\n)/g, '<br>')}`;

displayImageURL.setAttribute('src', response.imageURL);

displayLinkURL.setAttribute('onclick', "window.location.href=\'" + response.linkURL + "\';");

} else {

document.body.innerHTML =

`<a class='m-4 mb-0 d-block text-dark text-decoration-none' href='./home.html'>Failed to load items. ${response.response} Please try again.</a><h1 class="m-4 mb-0 mt-0">404</h1><hr>`;

}

}

xhr.open("GET", url + "?" + data, true);

xhr.setRequestHeader("Content-Type", "application/json; charset=utf-8");

xhr.send(data);

}

</script>

</body>

</html>

1.5 login.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Welcome :D</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.css">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.js"></script>

<script src="generateAuthToken.js"></script>

<style>

body {

background-image: url("resources/Login\_back.jpg");

background-size: cover;

}

.card-style {

background-color: #FF964D;

width: 25rem;

height: 30rem;

position: relative;

margin-inline-start: calc((100vw - 25rem)/2);

margin-top: calc((100vh - 30rem)/2);

padding: 10px;

}

.content-style {

color: black;

width: fit-content;

height: fit-content;

display: inline-block;

position: relative;

left: 10%;

top: 5%;

}

.signin {

position: relative;

left: 43%;

top: 5%;

width: fit-content;

}

.login {

position: relative;

left: -10%;

top: 12.5%;

width: fit-content;

}

img {

width: 5cm;

height: 5cm;

position: relative;

left: 2.4cm;

}

.logo-image {

width: fit-content;

height: fit-content;

}

.background-image {

position: fixed;

top: -0.1cm;

left: -0.1cm;

width: 100vw;

height: 100vh;

z-index: -1;

}

</style>

</head>

<body>

<img src="resources/abstract color1.png" class="background-image" alt="Background">

<form class="card card-style" method="GET">

<a href="home.html" class="logo-image">

<img src="resources/The\_store2.png" alt="UKM Programming" style="width: 5cm; height: 4cm; ">

</a>

<div class="content-style">

<div class="mb-4 row">

<label for="inputUsername" class="col-sm-4 col-form-label">Username</label>

<div class="col-sm-8">

<input type="text" class="form-control" id="inputUsername">

</div>

</div>

<div class="mb-4 row">

<label for="inputPassword" class="col-sm-4 col-form-label">Password</label>

<div class="col-sm-8">

<input type="password" class="form-control" id="inputPassword">

</div>

</div>

</div>

<div class="signin">

<a id="response" href="signin.html">Sign In?</a>

<div class="login d-block">

<input type="button" class="btn btn-primary mb-3" value="Log In" onclick="loginAccount()" />

</div>

</div>

</form>

<script>

const inputUsername = document.getElementById("inputUsername");

const inputPassword = document.getElementById("inputPassword");

const accessTime = new Date();

function loginAccount() {

let u = inputUsername.value;

let p = inputPassword.value;

let d = (accessTime).getTime();

let a = generateAuthToken(u, p, d);

var xhr = new XMLHttpRequest();

var url = "login.php";

let data = "username=" + u + "&authToken=" + a + "&lastLogin=" + d;

xhr.onload = function () {

const response = JSON.parse(this.responseText);

if (response.response == "True") {

sessionStorage.setItem("username", response.username);

sessionStorage.setItem("authToken", response.authToken);

sessionStorage.setItem("lastLogin", response.lastLogin);

sessionStorage.setItem("avatar", response.imageURL);

window.location.replace('./home.html');

} else {

document.getElementById("response").innerHTML +=

`<a href='./login.html'><br>Login Failed. <br>${response.response} <br>Please try again.</a>`;

}

}

xhr.open("GET", url + "?" + data, true);

xhr.setRequestHeader("Content-Type", "application/json; charset=utf-8");

xhr.send(data);

}

</script>

</body>

</html>

1.6 Profile.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Profile</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.css">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.js"></script>

<style>

body {

background-color: aliceblue;

}

#avatar {

margin-block-start: 1cm;

margin-inline-start: 3cm;

}

.greeting {

margin-inline-start: 3cm;

font-family: cursive;

}

.button-item {

border: none;

background-color: cadetblue;

margin-bottom: 5px;

max-width: 11cm;

text-align: end;

}

.button-item .auth-token {

text-align: start;

margin-inline-start: 0.2cm;

width: 10cm;

white-space: nowrap;

}

.button-item a,

.button-item div {

text-decoration: none;

font-size: 20px;

margin-inline-start: 2.2cm;

margin-inline-end: 0.2cm;

width: 8cm;

color: azure;

display: flex;

font-weight: bold;

justify-content: start;

}

.bottom-section {

background-color: black;

width: 100%;

height: 3cm;

position: fixed;

bottom: 0;

}

.content {

position: absolute;

top: 0.5cm;

}

.background-image {

position: fixed;

right: -0.1cm;

bottom: 3.9cm;

width: 15cm;

height: 15cm;

}

.hidden \* {

color: cadetblue !important;

transition-delay: 0s;

transition-duration: 1s;

}

.hidden:hover \* {

color: lightpink !important;

transition-delay: 1s;

}

</style>

</head>

<body onload="setGreeting()">

<img class="background-image" src="resources/color2.png" alt="Background">

<div class="content">

<img id="avatar" src="resources/AvatarMale.png" class="mb-4 rounded-circle" alt="Avatar"

style="width: 5cm; height: 5cm; ">

<br>

<h1 class="greeting" id="greeting"><strong>Guest</strong></h1>

<div class="button-item">

<a id="link-url" href="home.html">Your Items</a>

</div>

<div class="button-item">

<div>Last logged in at:</div>

</div>

<div class="button-item">

<div id="last-login"></div>

</div>

<div class="button-item">

<div class="auth-token hidden justify-content-between">Auth Token: <div class="m-0 text-end d-inline-block">

1240129471274091904</div>

</div>

</div>

<div class="button-item">‎</div>

</div>

<div class="bottom-section">

<a href="home.html">

<img src="resources/The\_StoreLogo3.png" alt="The Store"

style="width: fit-content; height: 3cm; padding: 10px;">

</a>

</div>

<script>

const greeting = document.getElementById("greeting");

const username = sessionStorage.getItem("username");

const authToken = sessionStorage.getItem("authToken");

const lastLogin = sessionStorage.getItem("lastLogin");

function setGreeting() {

if (username == null) {

window.location.replace("login.html");

return;

}

greeting.innerHTML = "<strong>" + username + "</strong>";

document.getElementById('link-url').setAttribute('href', 'home.html#' + username);

document.getElementById('last-login').innerHTML = (new Date(parseInt(lastLogin))).toUTCString();

}

</script>

</body>

</html>

1.7 signIn.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Sign In</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.css">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.js"></script>

<script src="generateAuthToken.js"></script>

<style>

body {

background-color: aquamarine;

}

.form {

width: 60vw;

min-width: 7.5cm;

height: fit-content;

padding: 20px;

border-radius: 1cm;

background-color: aliceblue;

margin-inline-start: calc(100vw-(max(60vw, 7.5cm))/2);

margin-top: calc((100vh - 21cm)/2);

display: block;

}

.img {

width: 5.5cm;

height: 4cm;

border-radius: 1cm;

}

.background-image {

position: fixed;

left: -0.1cm;

width: 40cm;

height: 15cm;

z-index: -1;

margin-inline-start: calc((100vw - 40cm)/2);

margin-top: calc((100vh - 15cm)/2 - 8cm);

}

label {

display: inline-block;

}

</style>

</head>

<body class="m-3">

<img src="resources/abstract wave2.png" class="background-image" alt="wave2">

<form method="GET" class="container needs-validation form" novalidate>

<a href="home.html"><img src="resources/The\_store2.png" alt="the\_storeLogo" class="img m-auto d-block"></a>

<br>

<div class="row mb-3">

<label for="inputUsername" class="col-sm-3 col-form-label">Username</label>

<div class="col-sm-9">

<input type="text" class="form-control" id="inputUsername" value="" required>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="row mb-3">

<label for="inputEmail" class="col-sm-3 col-form-label">Email</label>

<div class="col-sm-9">

<input type="email" class="form-control" id="inputEmail" placeholder="Example@gmail.com"

aria-label="Example@gmail.com" value="">

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="row mb-3">

<label for="inputPassword" class="col-sm-3 col-form-label">Password</label>

<div class="col-sm-9">

<input type="password" class="form-control" id="inputPassword" value="" onkeyup='check();' required>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="row mb-3">

<label for="confirmPassword" class="col-sm-3 col-form-label">Confirm Password</label>

<div class="col-sm-9">

<input type="password" class="form-control" id="confirmPassword" value="" onkeyup='check();' required>

<span id='message'></span>

</div>

</div>

<div class="row mb-3">

<label for="inputTelp" class="col-sm-3 col-form-label">No Telp</label>

<div class="col-sm-9">

<input type="tel" class="form-control" id="inputTelp" pattern="[0-9]{10,13}">

<div class="invalid-feedback">

10-13 digits.

</div>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="row mb-3">

<label for="inputImageURL" class="col-sm-3 col-form-label">Profile Icon URL</label>

<div class="col-sm-9">

<input type="url" class="form-control" id="inputImageURL" value="" onkeyup='check();'>

<div class="valid-feedback">

Confirmed!

</div>

</div>

</div>

<div class="col-12">

<div class="form-check">

<input class="form-check-input" type="checkbox" value="" id="invalidCheck" required>

<label class="form-check-label" for="invalidCheck">

Agree to terms and conditions

</label>

<div class="invalid-feedback">

You must agree before submitting.

</div>

</div>

</div>

<br>

<input type="button" onclick="signinAccount()" class="btn btn-primary m-auto d-block" value="Sign In" />

<div class="m-auto" id="response"></div>

</form>

<script>

const inputUsername = document.getElementById("inputUsername");

const inputPassword = document.getElementById('inputPassword');

const confirmPassword = document.getElementById('confirmPassword');

const inputImageURL = document.getElementById('inputImageURL');

const message = document.getElementById('message');

function accept(element) {

element.style.color = 'green';

element.innerHTML = 'Matching';

}

function reject(element) {

element.style.color = 'red';

element.innerHTML = 'Wrong password';

}

function signinAccount() {

let u = inputUsername.value;

let p = inputPassword.value;

let d = (new Date()).getTime();

let a = generateUndatedAuthToken(u, p);

let i = inputImageURL.value;

var xhr = new XMLHttpRequest();

var url = "signin.php";

let data = "username=" + u + "&authToken=" + a + "&lastLogin=" + d + "&imageURL=" + i;

xhr.onload = function () {

const response = this.responseText;

if (response == 'True') {

document.getElementById("response").innerHTML =

"<a class='text-decoration-none text-dark' href='./login.html'>Registration Succesful!</a>";

window.location.replace('./login.html');

} else {

document.getElementById("response").innerHTML =

"<a class='text-decoration-none text-dark' href='./signIn.html'>Registration failed due to ${response} Please try again.</a>";

}

}

xhr.open("GET", url + "?" + data, true);

xhr.setRequestHeader("Content-Type", "application/json; charset=utf-8");

xhr.send(data);

}

function check() {

if (inputPassword.value == confirmPassword.value) {

accept(message);

} else {

reject(message);

}

}

// Example starter JavaScript for disabling form submissions if there are invalid fields

(() => {

'use strict'

// Fetch all the forms we want to apply custom Bootstrap validation styles to

const forms = document.querySelectorAll('.needs-validation')

// Loop over them and prevent submission

Array.from(forms).forEach(form => {

form.addEventListener('submit', event => {

if (!form.checkValidity()) {

event.preventDefault()

event.stopPropagation()

}

form.classList.add('was-validated')

}, false)

})

})()

</script>

</body>

</html>

2. PHP

2.1 add.php

<?php

//connect to mysql db

$con = mysqli\_connect('localhost', 'giftshopriro', 'robert2975', 'giftshopriro') or die('Could not connect: ' . mysqli\_error($con));

//get the item's values and user's name

$title = $\_GET['title'];

$detail = $\_GET['detail'];

$linkURL = $\_GET['linkURL'];

$imageURL = $\_GET['imageURL'];

$username = $\_GET['username'];

$typeID = $\_GET['typeID'];

//check is there is an account with the username and get the user's id

$userID = mysqli\_fetch\_assoc($con->execute\_query('SELECT userID FROM accounts WHERE username = ?', [$username]));

if ($userID == NULL) {

echo 'User not found.';

mysqli\_close($con);

exit();

}

//insert into mysql table

$sql = 'INSERT INTO items(title, detail, linkURL, imageURL, userID, typeID) VALUES(?,?,?,?,?,?)';

$result = $con->execute\_query($sql, [$title, $detail, $linkURL, $imageURL, $userID['userID'], $typeID]);

if ($result != NULL) {

echo 'True';

mysqli\_close($con);

exit();

}

//close the db connection

echo 'Insertion failed.';

mysqli\_close($con);

?>

2.2 check.php

<?php

//open connection to mysql db

$connection = mysqli\_connect('localhost', 'giftshopriro', 'robert2975', 'giftshopriro') or die('Error ' . mysqli\_error($connection));

//fetch account details

$username = $\_GET['username'];

$authToken = $\_GET['authToken'];

$lastLogin = $\_GET['lastLogin'];

//get an account with the username and password

$sql = 'SELECT lastLogin FROM accounts WHERE username = ? AND lastLogin\*? = lastLogin\*authToken\*?';

$result = $connection->execute\_query($sql, [$username, $authToken, $lastLogin]);

$row = mysqli\_fetch\_assoc($result);

//check if the credentials are correct

if ($row == NULL) {

echo ('Incorrec credentials.');

mysqli\_close($connection);

exit();

}

//check if the credentials are still valid (it's not from the future and it's not from 3 days ago)

if ($row == NULL || $lastLogin < $row['lastLogin'] || $lastLogin - $row['lastLogin'] > 259200000) {

echo ('Expired credentials.');

mysqli\_close($connection);

exit();

}

//leave

echo ('True');

mysqli\_close($connection);

?>

2.3 get.php

<?php

//open connection to mysql db

$connection = mysqli\_connect('localhost', 'giftshopriro', 'robert2975', 'giftshopriro') or die('Error ' . mysqli\_error($connection));

//try to get the item based of of the item's id

$itemID = $\_GET['id'];

$sql = 'SELECT \* FROM items WHERE itemID = ?';

$result1 = $connection->execute\_query($sql, [$itemID]);

$row = mysqli\_fetch\_assoc($result1);

//if there's none, go return the 404 response

if ($row == NULL) {

$item['response'] = 'Item not found.';

echo json\_encode($item);

mysqli\_close($connection);

exit();

}

//if there is

//get the poster's name

$sql = 'SELECT username FROM accounts WHERE userID = ?';

$result2 = $connection->execute\_query($sql, [$row['userID']]);

$username = mysqli\_fetch\_assoc($result2);

//pack the item

$item = ['title' => $row['title'], 'detail' => $row['detail'], 'imageURL' => $row['imageURL'], 'linkURL' => $row['linkURL'], 'username' => $username['username']];

//send the item and a response saying so

$item['response'] = 'True';

echo json\_encode($item);

mysqli\_close($connection);

?>

2.4 load.php

<?php

//open connection to mysql db

$connection = mysqli\_connect('localhost', 'giftshopriro', 'robert2975', 'giftshopriro') or die('Error ' . mysqli\_error($connection));

//get the user's id

$username = $\_GET['username'];

$userID = mysqli\_fetch\_assoc($connection->execute\_query('SELECT userID FROM accounts WHERE username = ?', [$username])) or 0;

//create an array

$json = array();

$own = array();

//get all types

$sql = 'SELECT \* FROM itemTypes';

$result1 = $connection->execute\_query($sql);

while ($types = mysqli\_fetch\_assoc($result1)) {

//sort items into types and if the user submitted it

$sql = 'SELECT \* FROM items WHERE typeID = ?';

$items = array();

$result2 = $connection->execute\_query($sql, [$types['typeID']]);

while ($row = mysqli\_fetch\_assoc($result2)) {

$item = ['itemID' => $row['itemID'], 'title' => $row['title'], 'detail' => $row['detail'], 'imageURL' => $row['imageURL'], 'linkURL' => $row['linkURL'], 'userID' => $row['userID'], 'typeID' => $row['typeID']];

if ($userID != NULL and $row['userID'] == $userID['userID']) {

$own[] = $item;

continue;

}

$items[] = $item;

}

$json[] = ['typeName' => $types['name'], 'items' => $items];

}

//if the user is logged in, put the items into the array. if not, there would be no items so we don't have to

if ($username != null) {

$json[] = ['typeName' => $username, 'items' => $own];

}

//if the temporary json is empty

if (count($json) == 0) {

echo json\_encode(['response' => 'Items not found.', 'types' => $json]);

mysqli\_close($connection);

exit();

}

//go back go back go back go back go back go back go back go back go back go back

echo json\_encode(['response' => 'True', 'types' => $json]);

mysqli\_close($connection);

?>

2.5 login.php

<?php

//open connection to mysql db

$connection = mysqli\_connect('localhost', 'giftshopriro', 'robert2975', 'giftshopriro') or die('Error ' . mysqli\_error($connection));

//fetch data

$username = $\_GET['username'];

$authToken = $\_GET['authToken'];

$lastLogin = $\_GET['lastLogin'];

$imageURL = '';

//check is there is an account with the username

$sql = 'SELECT \* FROM accounts WHERE username = ?';

$result = $connection->execute\_query($sql, [$username]);

if (mysqli\_fetch\_assoc($result) == NULL) {

echo json\_encode(['response' => 'Username not found.']);

mysqli\_close($connection);

exit();

}

//check is there is an account with the username and password

$sql = 'SELECT imageURL FROM accounts WHERE username = ? AND lastLogin\*? = lastLogin\*authToken\*?';

$result = $connection->execute\_query($sql, [$username, $authToken, $lastLogin]);

$rows = mysqli\_fetch\_assoc($result);

if ($rows == NULL) {

$response = ('Incorrect password.');

} else {

$sql = 'UPDATE accounts SET lastLogin = ? WHERE username = ?';

$connection->execute\_query($sql, [$lastLogin, $username]);

$imageURL = $rows['imageURL'];

$response = ('True');

}

//create a new json

$json = ['username' => $username, 'authToken' => $authToken, 'lastLogin' => $lastLogin, 'imageURL' => $imageURL, 'response' => $response];

echo json\_encode($json);

//close the db connection

mysqli\_close($connection);

?>

2.6 signin.php

<?php

//web kami tidak menyimpan password, namun kami hanya menyimpan

//authentication tokennya. kami tidak tahu apakah ini memang sistem

//yang digunakan website yang profesional, tapi ide ini muncul

//mendadak saat robert sedang jalan pulang dan robert sangat senang

//dengan idenya sehingga dia implementasikan saja. menurut robert sih,

//ide ini sangat keren, walau sekarang kalau lupa password harus ganti

//password (belum diimplementasi jadi kalau lupa harus ganti akun).

//robert juga menambahkan enkripsi dengan mengalikan authtokennya

//dengan waktu login, sehingga jika ingin mencuri authtoken aslinya,

//antara harus lewat meretas databasenya, atau dengan mengetahui kapan

//terakhir user login, kapan user sedang mencoba login, dan apa

//authtoken user yang diinputkan, dan authtoken itupun masih harus

//diterjemah menjadi username dan password, sehingga juga perlu

//mengetahui username pengguna.

//connect to mysql db

$con = mysqli\_connect('localhost', 'giftshopriro', 'robert2975', 'giftshopriro') or die('Could not connect: ' . mysqli\_error($con));

//get the account details

$username = $\_GET['username'];

$authToken = $\_GET['authToken'];

$lastLogin = $\_GET['lastLogin'];

$imageURL = $\_GET['imageURL'];

//check is there is an account with the username

$sql = 'SELECT \* FROM accounts WHERE username = ?';

$result = $con->execute\_query($sql, [$username]);

if (mysqli\_fetch\_assoc($result) != NULL) {

echo 'Username found.';

mysqli\_close($con);

exit();

}

//insert into mysql table

$sql = 'INSERT INTO accounts(username, authToken, lastLogin, imageURL) VALUES(?,?,?,?)';

$result = $con->execute\_query($sql, [$username, $authToken, $lastLogin, $imageURL]);

if ($result) {

echo 'True';

mysqli\_close($con);

exit();

}

//close the db connection

echo 'Insertion failed.';

mysqli\_close($con);

?>

3 JavaScript

3.1 generateAuthToken.js

function getPrime(n) {

let i, primes = [2, 3],

num = 5;

const isPrime = num => {

let i = 1,

p = primes[i],

limit = Math.ceil(Math.sqrt(n));

while (p <= limit) {

if (num % p === 0) {

return false;

}

i += 1;

p = primes[i];

}

return true;

}

for (i = 2; i <= n; i += 1) {

while (!isPrime(num)) {

num += 2;

}

primes.push(num);

num += 2;

};

return primes[n];

}

function generateUndatedAuthToken(u, p) {

let a = 0;

for (let t = 0; t < u.length; t++) {

let e = u.charCodeAt(t);

a += getPrime(t) \* e;

}

for (let t = 0; t < p.length; t++) {

let e = p.charCodeAt(t);

a += getPrime(t + u.length) \* e;

}

return a;

}

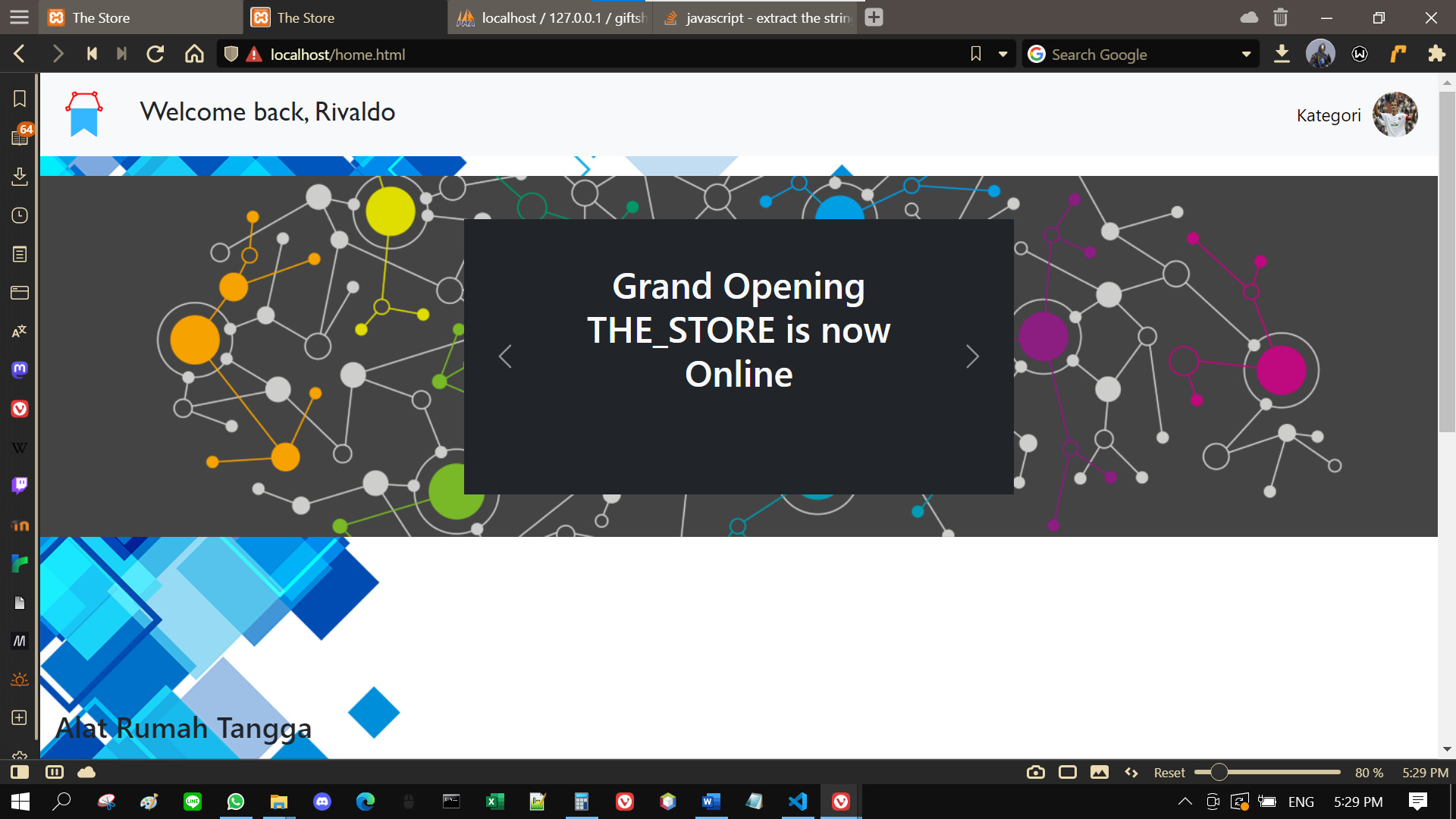
function generateAuthToken(u, p, d) {

return (generateUndatedAuthToken(u, p) \* d);

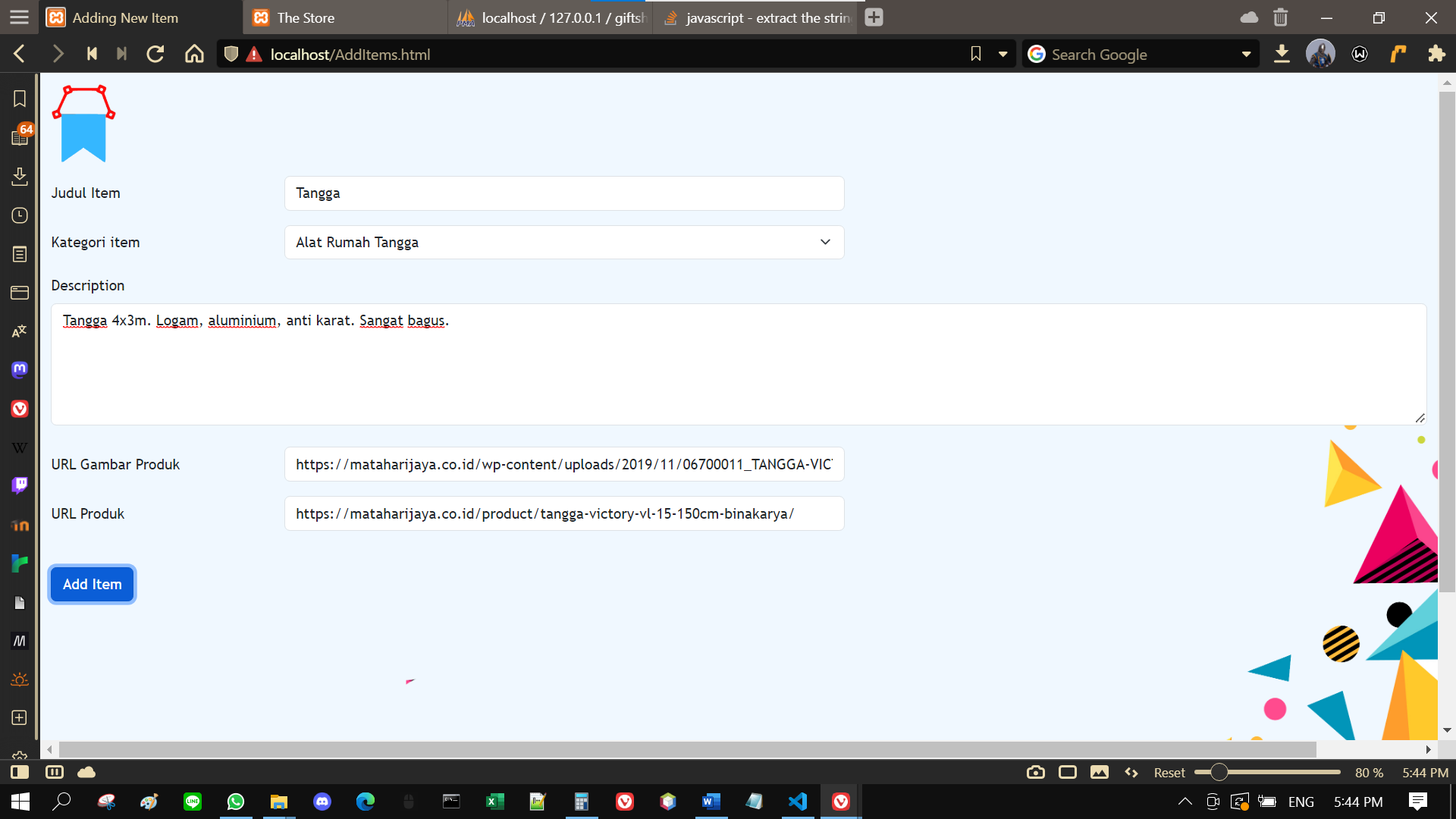
}

4. Screenshot

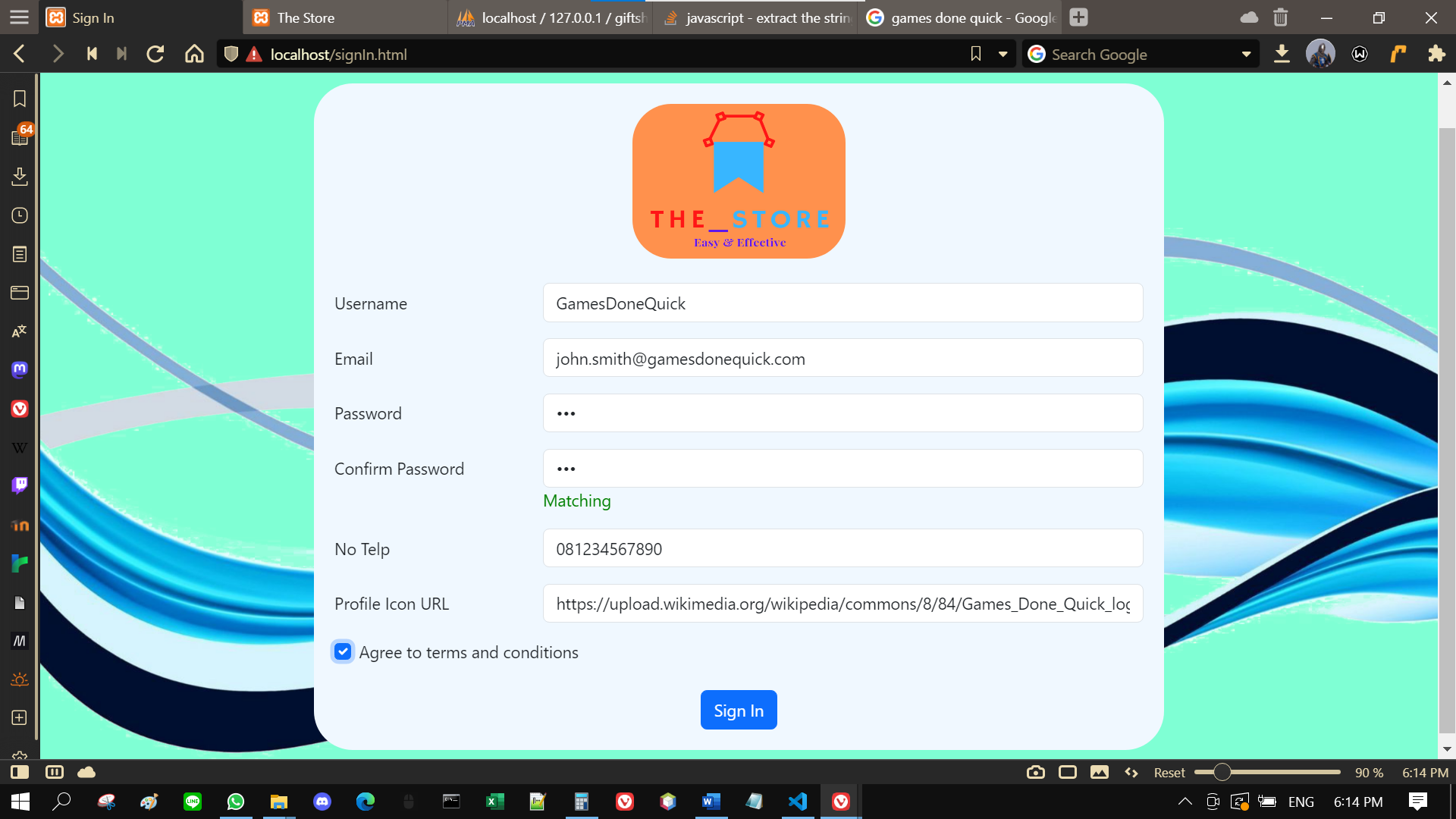
4.1 Home



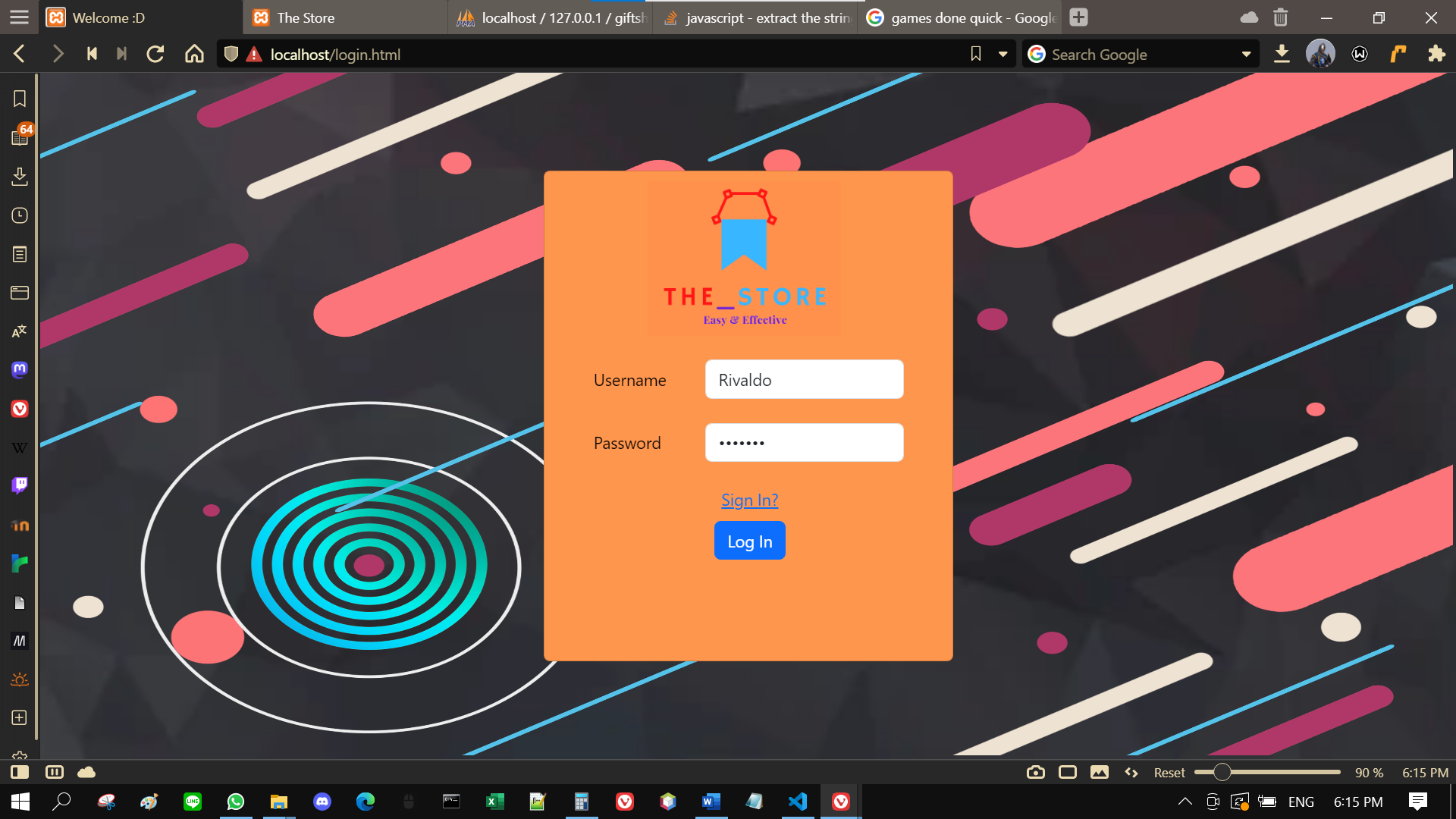
4.2 Add Item



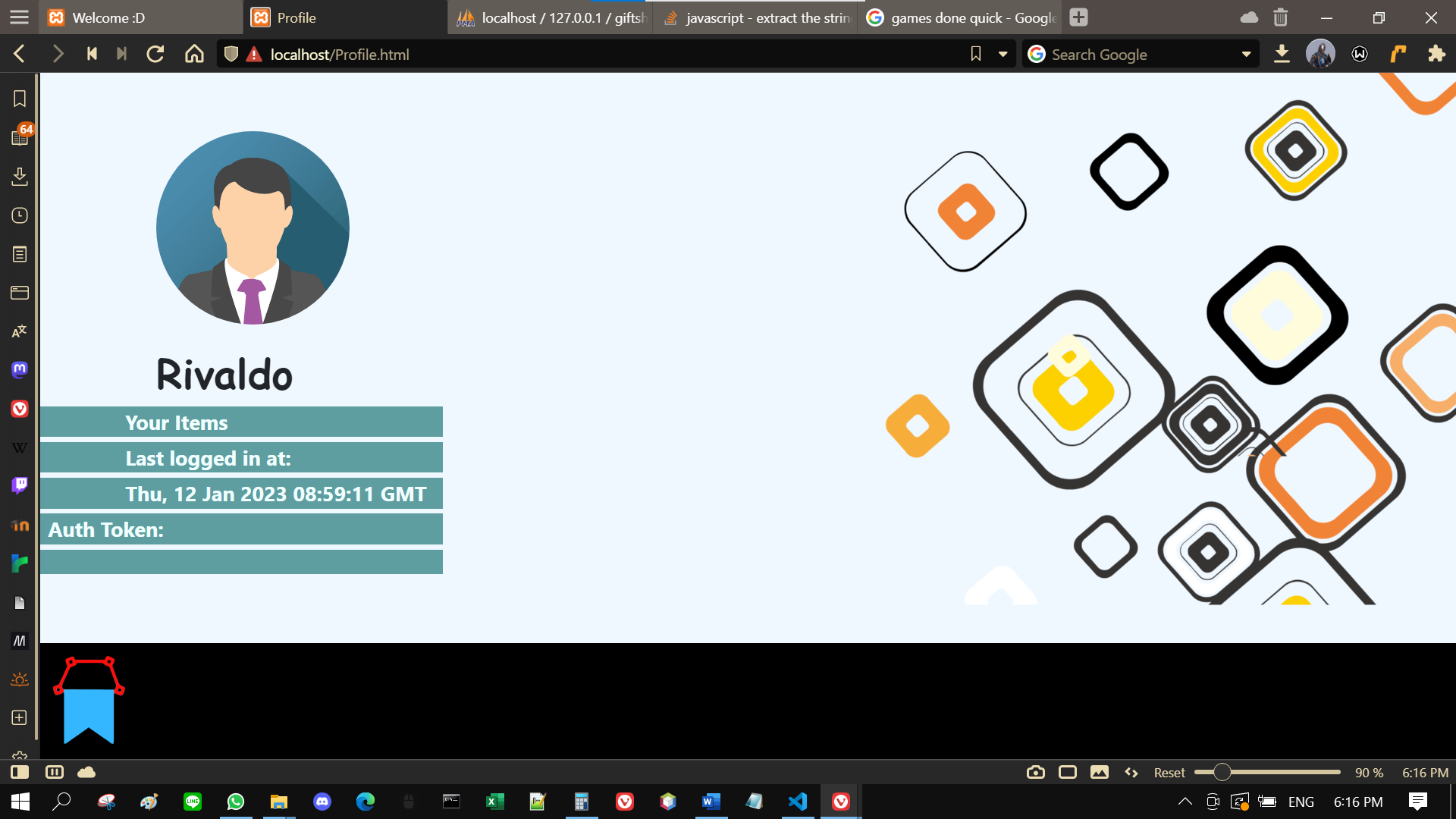
4.3 Sign In



4.4 Log In



4.5 Profile



4.6 About Us

