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Project Description

The system’s structure consisted of two HTML pages a Homepage called retroComputers.html, and a cart called orderPage.html. These are our User interfaces. We have three products on the homepage where you can choose the Quantity of the product this automatically updates to the cart. The user can go to the Cart page and from there they can update their cart, or empty the cart (this updates to the iframe can be viewed if the user clears their cache). Underneath is a form field which the user can fill out to process an order. Once the submit button is clicked the spreadsheets automatically updated with the users information and the items in cart. The contents in cart are simultaneously cleared as the order sheet updates.

# The implemented algorithms critical for the system's behavior

The website images within the site are hosted on a separate server and are pulled using the href tag and a url.

**In order to use our css deamweaver framework. We had to pull the bootstrap using:**

<!-- Bootstrap CSS -->

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

<meta charset="utf-8">

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

**Our google scripts connection:**

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

**Our navigation bar functionality:**

<ul class="navbar-nav mr-auto">

<li class="nav-item active">

<?var url = getScriptUrl();?>

<a class="nav-link" href='<?=url?>?page=retroComputers'> Home </a>

</li>

<li class="nav-item active">

<?var url = getScriptUrl();?>

<a class="nav-link" href='<?=url?>?page=orderPage'> Cart </a>

</li>

<li class="nav-item active">

<?var url = getScriptUrl();?>

<a class="nav-link" href='<?=url?>?page=registration'> Registration </a>

</li>

</ul>

**Gs code for page navigation:**

function doGet(e) {

Logger.log( Utilities.jsonStringify(e) );

if (!e.parameter.page) {

// When no specific page requested, return "home page"

return HtmlService.createTemplateFromFile('retroComputers').evaluate();

}

// else, use page parameter to pick an html file from the script

return HtmlService.createTemplateFromFile(e.parameter['page']).evaluate();

}

function getScriptUrl() {

var url = ScriptApp.getService().getUrl();

return url;

}

On the homepage you can order 1 of three Items:

**To order the Apple II:**

function buyApple(quantity) {

var url = "https://docs.google.com/spreadsheets/d/1D465I5RKnoyZLWZ8nZCC9zm3dsSMi7Fifvi3R4jQUcs/edit#gid=698686533";

var ss = SpreadsheetApp.openByUrl(url);

var ws = ss.getSheetByName("Cart");

var productId = "Apple II";

var description = "This is the Apple II. It's a very iconic retro computer.";

var price = "$300";

ws.appendRow([productId, description, price, quantity])

}

<h5 class="card-title">Apple II</h5>

<p class="card-text">This is the Apple II. It's a very iconic retro computer.</p>

<div>

<p> $300 </p>

</div>

<label>Quantity </label>

<select id = "AppQuantity">

<option>1</option>

<option>2</option>

<option>3</option>

<option>4</option>

<option>5</option>

<option>6</option>

<option>7</option>

<option>8</option>

<option>9</option>

<option>10</option>

</select>

<button id = "Applebutt" > "Add to Cart"</button>

<script>

document.getElementById("Applebutt").addEventListener("click", Applebttn);

function Applebttn()

{

alert("added to cart");

var quantity = document.getElementById("AppQuantity").value;

google.script.run.buyApple(quantity);

document.getElementById("AppQuantity").value = "1";

}

</script>

**To order the the Dekogon Workstation Pro:**

<h5 class="card-title">Dekogon Workstation Pro</h5>

<p class="card-text">Deluxe deckogon workstation complete with mouse.</p>

<div>

<p > $400 </p>

</div>

<label> Quantity </label>

<select id = "quantityDPro">

<option>1</option>

<option>2</option>

<option>3</option>

<option>4</option>

<option>5</option>

<option>6</option>

<option>7</option>

<option>8</option>

<option>9</option>

<option>10</option>

</select>

<input type="button" onclick="DekogonPro()" value = "Add to Cart">

<script>

function DekogonPro()

{

alert("added to cart");

var quantity = document.getElementById("quantityDPro").value;

google.script.run.buyDekPRo(quantity);

document.getElementById("quantityDPro").value = "1";

}

</script>

function buyDekPRo(quantity) {

var url = "https://docs.google.com/spreadsheets/d/1D465I5RKnoyZLWZ8nZCC9zm3dsSMi7Fifvi3R4jQUcs/edit#gid=698686533";

var ss = SpreadsheetApp.openByUrl(url);

var ws = ss.getSheetByName("Cart");

var productId = "Dekogon Workstation Pro";

var description = "Deluxe deckogon workstation complete with mouse.";

var price = "$400";

ws.appendRow([productId, description, price, quantity])

}

**To order the the Dekogon Workstation I:**

<h5 class="card-title">Dekogon Workstation I</h5>

<p class="card-text">Standard deckogon personal computer.</p>

<div>

<p> $150 </p>

</div>

<label> Quantity </label>

<select id = "quantityDI">

<option>1</option>

<option>2</option>

<option>3</option>

<option>4</option>

<option>5</option>

<option>6</option>

<option>7</option>

<option>8</option>

<option>9</option>

<option>10</option>

</select>

<input type="button" onclick="DekogonI()" value = "Add to Cart">

<script>

function DekogonI(){

alert("added to cart");

var quantity = document.getElementById("quantityDI").value;

google.script.run.buyDekI(quantity);

document.getElementById("quantityDI").value = "1";

}

</script>

function buyDekI(quantity) {

var url = "https://docs.google.com/spreadsheets/d/1D465I5RKnoyZLWZ8nZCC9zm3dsSMi7Fifvi3R4jQUcs/edit#gid=698686533";

var ss = SpreadsheetApp.openByUrl(url);

var ws = ss.getSheetByName("Cart");

var productId = "Dekogon Workstation I";

var description = "Standard deckogon personal computer.";

var price = "$150";

ws.appendRow([productId, description, price, quantity])

}

From the order page:

**Our empty cart button and update cart functions:**

HTML:

<input type="button" onclick="emptyCart()" value = "Empty Cart">

<input type="button" onclick="reload()" value = "Update Cart">

<script>

function reload() {

document.getElementById('CartFrame').src = document.getElementById('CartFrame').src

}

btn.onclick = reload;

</script>

<script>

function emptyCart(){

alert("cart is empty");

google.script.run.clearCart();

document.getElementById('CartFrame').src = document.getElementById('CartFrame').src

}

</script>

**Gs code for empty cart button:**

function clearCart()

{

var url = "https://docs.google.com/spreadsheets/d/1D465I5RKnoyZLWZ8nZCC9zm3dsSMi7Fifvi3R4jQUcs/edit#gid=698686533";

var ss = SpreadsheetApp.openByUrl(url);

var ws = ss.getSheetByName("Cart");

ws.getRange("A2:D999").clearContent();

}

**The Submit Order button function:**

<label for="textfield2">Name:</label>

<input type="text" name="textfield" id="name">

</div>

<div>

<label for="textfield2">Address:</label>

<input type="text" name="textfield2" id="address">

</div>

<div>

<label for="textfield2">City:</label>

<input type="text" name="textfield2" id="city">

</div>

<div>

<label for="textfield2">Zip:</label>

<input type="text" name="textfield2" id="zip">

</div>

<div>

<label for="textfield2">State:</label>

<input type="text" name="textfield2" id="state">

</div>

<div>

</div>

<input type="button" onclick="Purchase()" value = "Submit Order">

<script>

function Purchase(){

alert("You're order was submitted");

var name = document.getElementById("name").value;

var address = document.getElementById("address").value;

var city = document.getElementById("city").value;

var zip = document.getElementById("zip").value;

var state = document.getElementById("state").value;

google.script.run.userOrder(name, address, city, zip, state);

document.getElementById("name").value = "";

document.getElementById("address").value = "";

document.getElementById("city").value = "";

document.getElementById("zip").value = "";

document.getElementById("state").value = "";

google.script.run.fillOrder();

}

</script>

**Gs code for Submit Order button:**

function userOrder(name, address, city, zip, state) {

// get spreadsheet by name

var url = "https://docs.google.com/spreadsheets/d/1D465I5RKnoyZLWZ8nZCC9zm3dsSMi7Fifvi3R4jQUcs/edit#gid=698686533";

var ss = SpreadsheetApp.openByUrl(url);

var ws = ss.getSheetByName("User");

ws.appendRow([name, address, city, zip, state])

}

function fillOrder() {

var url = "https://docs.google.com/spreadsheets/d/1D465I5RKnoyZLWZ8nZCC9zm3dsSMi7Fifvi3R4jQUcs/edit#gid=698686533";

var ss = SpreadsheetApp.openByUrl(url);

var wsC = ss.getSheetByName("Cart");

var wsU = ss.getSheetByName("User")

var wsO = ss.getSheetByName("Orders");

while (!(wsC.getRange("A2:D2").isBlank()))

{

var Cvalues = wsC.getRange(wsC.getLastRow(), 1, 1, 4);

var Uvalues = wsU.getRange(wsU.getLastRow(), 1, 1, 5);

var destRangeC = wsO.getRange(wsO.getLastRow()+1,1);

var destRangeU = wsO.getRange(wsO.getLastRow()+1,5);

Cvalues.copyTo (destRangeC, {contentsOnly: true});

Uvalues.copyTo (destRangeU, {contentsOnly: true});

wsC.deleteRow(wsC.getLastRow());

}

}

// this code grabs the last Row in the User Sheet and updates the information in a concatenation format with the Cart information. Each time a row from cart is uploaded to the order sheet the row within the cart is deleted in real time. Sometimes there is a runtime error with the last line of the User sheet updates since it is done at the same time with the click of the button.