



BUILDING AN ARTISANAL E-COMMERCE PLATFORM WITH IBM CLOUD FOUNDRY

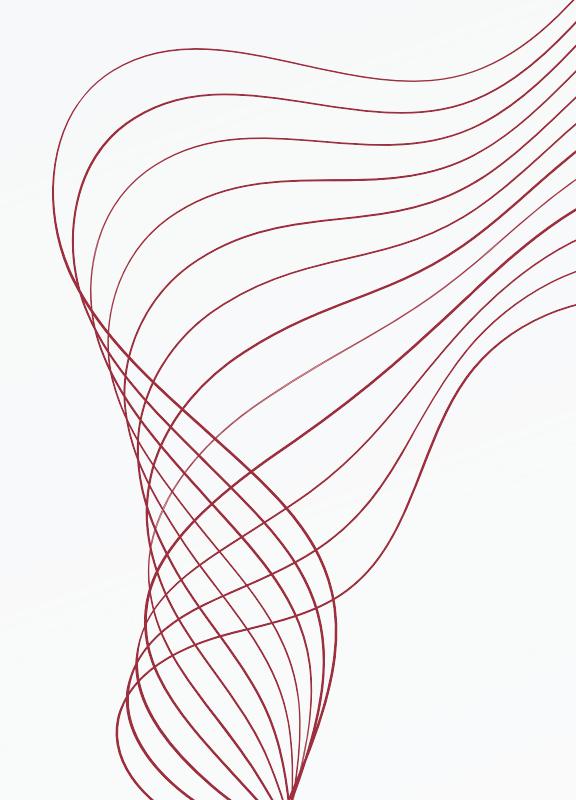
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PHASE 2

INNOVATION



PROBLEM STATEMENT:

- Building an artisanal e-commerce platform to connect skilled artisans with a global audience
- This application showcases their handmade products and provides features like secure shopping carts, payment gateways, and an intuitive checkout process
- Adding features which enhances Platform Design, Product Showcase, User Authentication, Shopping Cart and Checkout, Payment Integration, and User Experience

01

Creating a login page or home page

02

Product showcase and descriptions

03

Authentication and registration

04

Modeling Shopping Cart and Checkout process

05

Secure Payment

06

Advanced user Experience

01

CREATING A LOGIN PAGE OR HOME PAGE

File Edit Selection View Go Run Terminal Help ← → 🔍 product page

RUN AN... ▶ Launch Ch... ⚙ ... file.html X launch.json # style.css script.js 1.jpg

> VARIABLES

< WATCH

```
file.html > html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <title>Ecommerce artisan homemade decor</title>
5  |   <link rel="stylesheet" href="style.css">
6  </head>
7  <body>
8
9      <div class="main">
10         <div class="navbar">
11             <div class="icon">
12                 <h2 class="logo">Artisan</h2>
13             </div>
14
15             <div class="menu">
16                 <ul>
17                     <li><a href="#">HOME</a></li>
18                     <li><a href="#">PRODUCT</a></li>
19                     <li><a href="#">SHOPPING CART</a></li>
20                     <li><a href="#">WHLIST</a></li>
21                     <li><a href="#">CONTACT</a></li>
22                 </ul>
23             </div>
24
25             <div class="search">
26                 <input class="srch" type="search" name="" placeholder="Type To text">
27                 <a href="#"> <button class="btn">Search</button></a>
28             </div>
29
30         </div>
31         <div class="content">
32             <h1>Ecommerce artisan & <br><span>Handmade</span> <br>Decor</h1>
33             <p class="par">Welcome to our artisans' E-commerce website, where creativity meets craftsmanship!<br> Explore a world of exquisite
34             <br>
35             </p>
36
37             <button class="cn"><a href="#">JOIN US</a></button>
```

< BREAKPOINTS

< BROWSER BREAKPOINTS

master ⊕ ① 0 △ 0 ⌂ 0 🔍 Launch Chrome (product page)

Ln 64, Col 8 Spaces: 4 UTF-8 CRLF HTML

30°C Mostly clear

Windows Taskbar icons: File Explorer, Search, Task View, Microsoft Edge, Microsoft Store, Microsoft Support, File Manager, WhatsApp, Google Chrome, Microsoft Word, Microsoft Excel.

System tray: ENG IN, Wi-Fi, Battery, Date/Time: 19:10, 11-10-2023.

The screenshot shows a dark-themed code editor interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** product page
- Editor Tabs:** file.html, launch.json, style.css (active), script.js, 1.jpg
- Sidebar Sections:**
 - VARIABLES
 - WATCH
 - CALL STACK
 - BREAKPOINTS
 - BROWSER BREAKPOINTS
- Code Content:** A CSS file named style.css with the following code:

```
/* style.css */.btn{*margin: 0; padding: 0;}.main{width: 100%; background: linear-gradient(to top, #ff7200 50%, #fff 50%), url(1.jpg); background-position: center; background-size: cover; height: 100vh;}.navbar{width: 1200px; height: 75px; margin: auto;}.icon{width: 200px; float: left; height: 70px;}.logo{color: #ff7200; font-size: 35px; font-family: Arial; padding-left: 20px; float: left; padding-top: 10px; margin-top: 5px;}.menu{width: 400px;}
```
- Status Bar:** master, Launch Chrome (product page), 30°C Mostly clear, 19:10, 11-10-2023.

The screenshot shows a browser developer tools interface with the "script" tab selected. The code editor displays a JavaScript file named "script.js". The code is as follows:

```
script.js > ⚡ <function>
1  (function(doc){
2    var scriptElm = doc.scripts[doc.scripts.length - 1];
3    var warn = ['[ionicons] Deprecated script, please remove: ' + scriptElm.outerHTML];
4
5    warn.push('To improve performance it is recommended to set the differential scripts in the head as follows:')
6
7    var parts = scriptElm.src.split('/');
8    parts.pop();
9    parts.push('ionicons');
10   var url = parts.join('/');
11
12   var scriptElm = doc.createElement('script');
13   scriptElm.setAttribute('type', 'module');
14   scriptElm.src = url + '/ionicons.esm.js';
15   warn.push(scriptElm.outerHTML);
16   scriptElm.setAttribute('data-stencil-namespace', 'ionicons');
17   doc.head.appendChild(scriptElm);
18
19
20  scriptElm = doc.createElement('script');
21  scriptElm.setAttribute('nomodule', '');
22  scriptElm.src = url + '/ionicons.js';
23  warn.push(scriptElm.outerHTML);
24  scriptElm.setAttribute('data-stencil-namespace', 'ionicons');
25  doc.head.appendChild(scriptElm)
26
27  console.warn(warn.join('\n'));
28
29 })()>(document);
```

The code is annotated with several comments and a warning message. Lines 1 through 19 are standard script execution logic. Lines 20 through 29 show an alternative way to create the script element, using the 'nomodule' attribute instead of 'type: module'. A yellow lightbulb icon is placed before the second script creation block (lines 20-29), indicating a potential issue or suggestion. A warning message is present in line 5, suggesting to move differential scripts to the head for better performance.

Ecommerce artisan & Handmade Decor

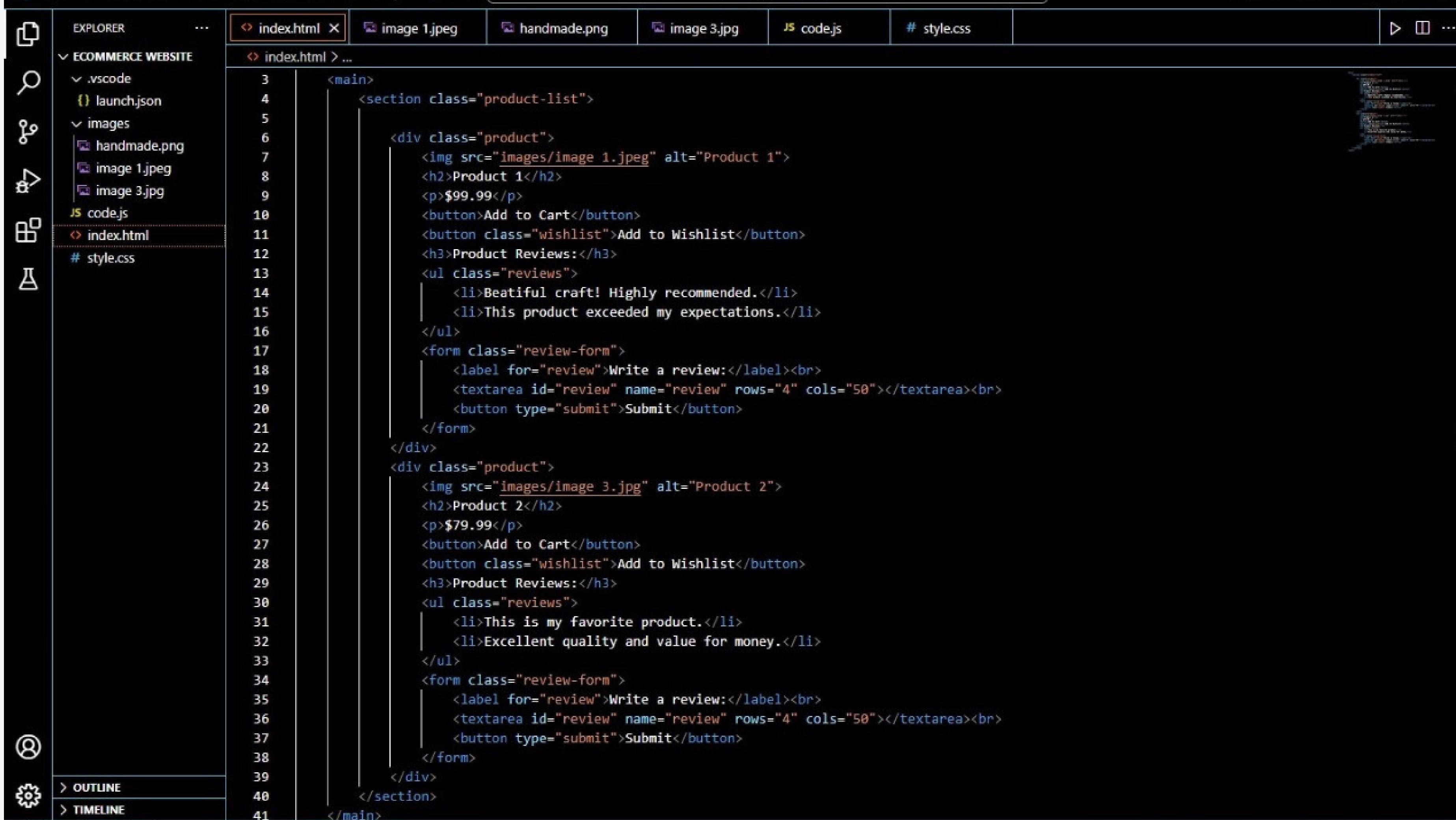
Welcome to our artisans' E-commerce website, where creativity meets craftsmanship!,
Explore a world of exquisite handmade decor, lovingly crafted by skilled artisans,

[JOIN US](#)[Login Here](#)[Login](#)[Don't have an account](#)[Sign up here](#)[Log in with](#)

ADDING OTHER FEATURES LIKE:

**Product review, wish list and personalized
recommendations to enhance user engagement and
satisfaction**

(IMPLEMENTATION WITH CODE)



The screenshot shows the Visual Studio Code (VS Code) interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** ecommerce website
- Left Sidebar (Explorer):** Shows the project structure under ECOMMERCE WEBSITE:
 - .vscode (launch.json)
 - images (handmade.png, image 1.jpeg, image 3.jpg)
 - JS code.js
 - index.html
 - # style.css
- Central Area (Code Editor):** Displays the contents of JS code.js. The code handles event listeners for wishlist buttons and review forms, with TODO comments for implementation.

```
1 // scripts.js
2
3 // Add event listeners to wishlist buttons
4 const wishlistButtons = document.querySelectorAll('.wishlist');
5 wishlistButtons.forEach(button => {
6   button.addEventListener('click', (event) => {
7     // Add item to wishlist
8     const product = event.target.parentElement;
9     const productName = product.querySelector('h2').innerText;
10    -----
11    // TODO: Implement wishlist functionality
12  });
13);
14
15 // Add event listeners to review forms
16 const reviewForms = document.querySelectorAll('.review-form');
17 reviewForms.forEach(form => {
18   form.addEventListener('submit', (event) => {
19     event.preventDefault();
20     const product = event.target.parentElement;
21     const productName = product.querySelector('h2').innerText;
22     const review = event.target.elements.review.value;
23     -----
24     // TODO: Add the review to the product's reviews list
25
26     event.target.reset();
27   });
28});
```
- Bottom Status Bar:** Shows file status (0 changes), terminal status (Launch Chrome against localhost (ecommerce website)), and other settings like spaces: 4, UTF-8, CRLF, and Go Live.

A screenshot of a dark-themed code editor interface, likely Visual Studio Code, displaying CSS code for an ecommerce website. The top bar includes standard file operations like File, Edit, Selection, View, Go, Run, Terminal, Help, and navigation arrows. The title bar reads "ecommerce website". The left sidebar has icons for Explorer, Search, Open, Find, and Settings, with "EXPLORER" and "ECOMMERCE WEBSITE" sections visible. The main area shows the following CSS code:

```
1  main {  
2      padding: 20px;  
3      display: flex;  
4      flex-wrap: wrap;  
5  }  
6  
7  .product-list {  
8      width: 100%;  
9      display: flex;  
10     flex-wrap: wrap;  
11     justify-content: space-between;  
12  }  
13  
14  .product {  
15      width: calc(45% - 20px);  
16      margin-bottom: 20px;  
17      padding: 10px;  
18      background-color: #f8f8f8;  
19  }  
20  
21  .product img {  
22      max-width: 100%;  
23      height: auto;  
24  }  
25  
26  .product h2 {  
27      font-size: 18px;  
28      margin-top: 10px;  
29      margin-bottom: 5px;  
30  }  
31  
32  .product p {  
33      font-weight: bold;  
34      margin-bottom: 10px;  
35  }  
36  
37  .product button {  
38      margin-bottom: 10px;  
39  }
```

The status bar at the bottom indicates "Ln 52, Col 2" and "Spaces: 4".

Artisian

My Wishlists



Handmade bags

Description

Price: \$50



Handmade flower pots

Description

Price: \$30

