



BUILDING AN ARTISANAL
E-COMMERCE
PLATFORM WITH IBM CLOUD FOUNDRY



PHASE 3

Development part 1



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

07 IBM cloud foundry

08 loading data into storage

09 products inserted into db2



01

CREATING A LOGIN PAGE OR HOME PAGE

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



**IMPLEMENTED IN IBM CLOUD USING DB2
AND
CLOUD STORAGE**

Cloud Object Storage - IBM Cloud

https://cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fa0989f34bf984cb79ac7b...

IBM Cloud

Search resources and products...

CatalogManage swetha G S's Account

Cloud Object Storage

Instances

Cloud Object Storage-l8

Integrations

Endpoints

Documentation

Billing

Instances / Cloud Object Storage-l8 /

cloud-object-storage-cos-standard-v7d

ObjectsConfigurationPermissions

If you're seeing more usage than expected, versions count towards your usage or you may h

Prefix filter

<input type="checkbox"/>	Object name	Archived ⓘ	Size
<input type="checkbox"/>	file.html		2.5 KB

Drag and drop files (objects) here or click to upload

Transfers

Upload success
file.html

2023-10-18 4:03 PM

Upload (1 objects)DeleteComplete

90°F
Haze

Search

4:03 P
10/18/20

Microsoft Edge | What's New

skillup login - Search

Steps to Create IBM Cloud Account

Service Details - IBM Cloud

←https://cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf...A☆🔒📄🔍👤⋮

IBM Cloud

Search resources and products...

CatalogManage ▾swetha G S's Account

🔍📅📄🔔👤

Resource list /

Db2-yd✔ ActiveAdd tags

DetailsActions...

Manage

Getting started

Service credentials

Connections

Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

🔍 Search credentials...

🔄New credential +

▼	<input type="checkbox"/> Key name	Date created	
▼	<input type="checkbox"/> Service credentials-1	2023-10-18 12:14 PM	📄🗑️

32°C Haze

ENG IN📶🔊🔋12:14 18-10-2023🔔

Microsoft Edge | What's New

skillup login - Search

Steps to Create IBM Cloud Account

Service Details - IBM Cloud

https://cloud.ibm.com/services/dashdb-for-transactions/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf...

IBM Cloud

Search resources and products...

Catalog

Manage

swetha G S's Account

```
"zws19489",
"-p",
"nBtr13esbhB5TRim",
"--ssl",
"--sslCAFile",
"1dd14d0c-1b52-4f63-a606-53ecba28771d",
"--authenticationDatabase",
"admin",
"--host",
"ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90108kqb1od8lcg.databases.appdomain.cloud:31505"
],
"bin": "db2",
"certificate": {
  "certificate_base64": "LS0tLS1CRUdJTiBDRVJUSUZJQ0FURSB0tLS0tCk1JSURIVENDQWdXZ0F3SUJBZ01VT3dvMC9va09CUEN5RjFWeFJx
VGhKRW9ubDBVd0RRWUpLb1pJaHZjTkFRRUwKQ1FBd0hqRWNNQm9HQTFVRUF3d1RTVUp0SUV0c2IzVmtJRvJoZEdGaVlYTmxjekF1RncweU1EQTRNRFF3TWp
VMwpNalphRncwek1EQTRNRE13TWpVM01qWmFNQjR4SERBYUJnTlZCQU1NRTBsQ1RTQkRiRzKxWkNCRVlYUmhZbUZ6ClpYTXdnZ0VpTUEwR0NTcUdTSWIZRF
FFQkFRVUFBNE1CRHdBd2dnRUtBb01CQVFEb0ZFNGQ0SGd0eXZMUUVIwR3gKQTB0amRXQnM4NVBJTDNyRStjN1R3K2diRUdQSUxJU0VZV3o4Y1g1TG1XQk0rY
1FnOG9VeSsrQXJ3OEoxaXdRZQpySm1IU2I1c1F4WTM0c3B0eGRFVEZkWEhScnJhMGU2VmM4MW42Tl1JL0ZHSn11Q3hzTG5GMUtFQW9hbHYwaDM2CnhDT0Fv
cXRwTlFrTzNpMTRGeU0yRDRIAjkxckI4RGk4Vy9XMVpVdVhMNGwzZXVlZUVCeTRuZmhJV3kySVc3aUMKbGpMZ3R1N3hZTDVHbVpKOUdsYWtrSnJ1cnpNREF
QLzVUYnRlUUIydElodTBRSVRZFZH1ESVFYUEZGRDBHYz1oZAo3M29JdnpVZUJ3VC9uRHN30TJNNC82SkdtZWpKN01pdFBTN3Y2a2d1UVhIND1BaUVJNXpQdU
VpVzN0Yi9GR0pYcmY2a2JBZ01CQUFHa1V6Q1JNqjBHQTfVZERnUVdCQ1R2RzZ2RU5MRjFVbWZnQ003Mmx0cmMzSDI2bURBZk1nTlYKSFNNRUdEQVdnQ1R2R
zZ2RU5MRjFVbWZnQ003Mmx0cmMzSDI2bURBUEJnTlZiUk1CQWY4RUJUQUJURBUUgVtUEwRwpDU3FHU01m0RRRUJDd1VBQTRJQkFRQTgvdFVnUTZlaTZYWHZn
dD0dUdrbkpva1Y5UWNkaTNZbFVFWkNDUyYtYjC1VQZ3NnMnVBM1dxcHlWTm1mRkhjcHZ1Vmp0VHRYTmk2NUM2W1ZsRnYxc3p1cU9zdFB5bkJ4b1N4cUs0dkc
0dTkkVjBWRUgxcE1tZnZBSmxkV3c4UEJTZGJtTk1HdGM4SzlWTh0o50VdBQ1ZFRXVXVgdDeHJKTxFBZnpYUX1idUV0dwp0cW1pV2swTmVXNGK5ZEY4S2dTWU
VaQWFodXVBS1RldXB2R2RPV1U0eEV4bm03aEVRbmZPV2ZITThDd08xNWFZC1RGQ2s0Q0pDUmR4M1g5U284V3o1Z3MzcncyRkFDQ1JyZ0NYeFFDZnZrZTZUd
VNHnkxFRHJHbWpWbXVScQkpZdW4KT1RwXWR0aVBHaHpuTHJrL0Fzam1LMzBxQmFLTmFyNUdQajhqa1pNb2RiZ04KLS0tLS1FTkQgQ0VSVE1GSUNBVEUtLS0t
LQo=",
  "name": "1dd14d0c-1b52-4f63-a606-53ecba28771d"
},
"composed": [
  "db2 -u zws19489 -p nBtr13esbhB5TRim --ssl --sslCAFile 1dd14d0c-1b52-4f63-a606-53ecba28771d --authenticationDat
abase admin --host ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90108kqb1od8lcg.databases.appdomain.cloud:31505"
],
"environment": {},
"type": "cli"
},
"db2": {
```

NZ - AFG

In 15 hours

Windows Taskbar

System Tray

The screenshot shows the IBM Db2 on Cloud console interface. At the top, there's a navigation bar with tabs for 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Load Data' tab is selected. Below this, there's a progress bar with four steps: 'Source' (active), 'Target', 'Define', and 'Finalize'. Under the 'Source' step, it says 'You are loading the file Product.csv'. On the left, there's a sidebar with icons for 'My Computer', 'Amazon S3', and 'Cloud Object Storage'. The main area is divided into 'File selection' and 'Selected file'. The 'File selection' area has a dashed box with a plus icon and a bar chart, with the text 'Drag a file here or browse files'. The 'Selected file' area shows 'Product.csv' with a close icon. A blue 'Next' button is at the bottom right.

Microsoft Edge | Wh x | skillup login - Search x | IBM Cloud | Module x | Video: Basics of Cloud x | Steps to Create IBM x | Service Details - IBM x | IBM Db2 on Cloud x

https://bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf984...

IBM Db2 on Cloud

Load Data | Load History | Tables | Views | Indexes | Aliases | MQTs | Sequences | Application objects

SQL

Select a load target

Source

Target

Define

Finalize

You are loading the file **Product.csv** into **ZWS19489.PRODUCT**

Schema

Find schemas

ZWS19489

Table

Find tables in ZWS19489

PRODUCT

New table +

Refresh

Back | Next

SENSEX -0.72%

13:15 18-10-2023

Microsoft Edge | Wh X skillup login - Search X IBM Cloud | Module X Video: Basics of Clou X Steps to Create IBM X Service Details - IBM X IBM Db2 on Cloud X

https://bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf984...

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

Source Target Define Finalize

You are loading the file **Product.csv** into **ZWS19489.PRODUCT**

Code page (character encoding): 1208 (UTF-8) Separator: , Header in first row: Time & date format: Detect data types:

	PRODUCT_NAME VARCHAR(27)	PRODUCT_DETAILS VARCHAR(157)	PRODUCT_PRICE VARCHAR(7)	PRODUCT_REVIEW VARCHAR(22)
1	Handmade Wooden Coaster Set	Set of 4 handcrafted wooden coasters, made from sustainable materials. Perfect for protect	\$40.00	10 stare(10 reviews
2	Handmade Ceramic Mug	Unique and stylish ceramic mug, handmade by a local artisan. Perfect for enjoying your favo	\$19.99	5 stars (10 reviews)
3	Handmade Soap	All-natural handmade soap, made with essential oils and botanicals. Gentle on the skin and	\$14.99	4.5 stars (20 reviews
4	Handmade Jewelry	Beautiful and unique handmade jewelry, made from a variety of materials, including preciou	\$9.99	5 stars (50 reviews)
5	Handmade Scarf	Soft and cozy handmade scarf, made from wool or other natural fibers. Perfect for keeping y	\$29.99	5 stars (100 reviews)
6	Handmade Hat	Stylish and functional handmade hat, made from a variety of materials, including wool, strav	\$39.99	4.5 stars (30 reviews
7	Handmade Quilt	Warm and inviting handmade quilt, made from a variety of fabrics. Perfect for adding a touch	\$29.99	5 stars (20 reviews)
8	Handmade Table runner	Beautiful and stylish handmade table runner, made from a variety of fabrics. Perfect for dres	\$199.99	5 stars (10 reviews)
9	Handmade pillow set	Set of 2 handcrafted pillowcases, made from a variety of fabrics. Perfect for adding a touch c	\$39.99	5 stars (15 reviews)
10	Handmade Candle	All-natural handmade candle, made with soy wax and essential oils. Perfect for creating a re	\$29.99	5 stars (25 reviews)

BackNext

SENSEX
-0.72%

ENG IN 13:15 18-10-2023

Microsoft Edge | Wh... Xskillup login - Search XIBM Cloud | Module XVideo: Basics of Clou... XSteps to Create IBM XService Details - IBM XIBM Db2 on Cloud X

https://bs2ipcul0apon0jufi80fite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf984...

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

Load details

My computerTargetProduct.csvZWS19489.PRODUCT

10100

Rows readRows loadedRows rejected

Start time10/18/2023 1:18:58 PMEnd time10/18/2023 1:19:02 PM

The data load job succeeded.

You can now work with your data.

Errors0Warnings0

No errors

Notifications

The data load job succeeded.

Load Product.csv from My Computer to ZWS19489.PRODUCT

2023/10/18, 01:19 PMView details

32°CNear record

ENG IN13:1918-10-2023

Microsoft Edge | Wh... X | skillup login - Search X | IBM Cloud | Module X | Video: Basics of Clou... X | Steps to Create IBM X | Service Details - IBM X | IBM Db2 on Cloud X

https://bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf984...

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

SQL

Load Data +

STATUS	SOURCE	FILENAME	TARGET	REQUESTED BY	ROWS LOADED	ROWS REJECTED
Success	My computer	Product.csv	ZWS19489.PRODUCT	zws19489	10	0

https://bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf984cb79ac7bbd89abf8be7%3A30abc93e-cc1b-43c2-8731-a9d75c094588%3A%3A/console/index.html#/load/history

SA - NED
NED win

ENG IN 13:21 18-10-2023

The screenshot shows the IBM Db2 on Cloud console interface. On the left, the 'Data objects' panel displays a tree structure for a database named 'ZWS19489', including 'Tables', 'Views', 'MQTs', 'Aliases', and 'Nicknames'. The 'Tables' section is expanded, showing a table named 'PRODUCT'. The main area is a SQL editor titled '*Untitled ...' with a syntax assistant and a 'Run selected' button. The editor contains the following SQL script:

```

1 SELECT *
2   FROM PRODUCT;
3
4 CREATE TABLE website (
5     DETAILS VARCHAR(255),
6     NAME VARCHAR(255),
7     PRICE VARCHAR(255),
8     REVIEW INT
9 );
10 select * from website;
11 INSERT INTO website(DETAILS,NAME,PRICE,REVIEW)values('beautiful','jewellery',200,4);
12 INSERT INTO website(DETAILS,NAME,PRICE,REVIEW)values('unique','craft',250,5);
13 INSERT INTO website(DETAILS,NAME,PRICE,REVIEW)values('stylish','flowerpot',270,5);
14 INSERT INTO website(DETAILS,NAME,PRICE,REVIEW)values('goodness','craft',250,5);
15 select * from website;
16
17

```

The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating a temperature of 32°C, haze, and the time 15:40 on 18-10-2023.

The screenshot displays the IBM Db2 on Cloud console interface. On the left, a sidebar shows the 'Data objects' tab with a search bar and a tree view containing 'ZWS19489', 'Tables', 'PRODUCT', 'Views', 'MQTs', 'Aliases', and 'Nicknames'. The main area is divided into two sections: a top section for executing SQL and a bottom 'History' section. The top section has a toolbar with icons for file operations, a 'Syntax assistant' toggle, and a 'Run all' button. Below the toolbar, a single SQL statement is entered: `1 select * from PRODUCT;`. The 'History' section features a search bar and a table with the following data:

Script	Date	Status	Runtime
Untitled - 1	Oct 18, 2023 1:47:14 PM	✓ 1	0.009 s
select * from PRODUCT		✓	0.009 s

FileEditSelectionViewGoRunTerminalHelp

product page

RUN AN...Launch Ch...

file.htmlXlaunch.json# style.cssJS script.js1.jpg

> VARIABLES

> WATCH

> CALL STACK

> BREAKPOINTS

> BROWSER BREAKPOINTS

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">Artisian</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="#">WHILIST</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     </p>
35
36
37     <button class="cn"><a href="#">JOIN US</a></button>
```

master

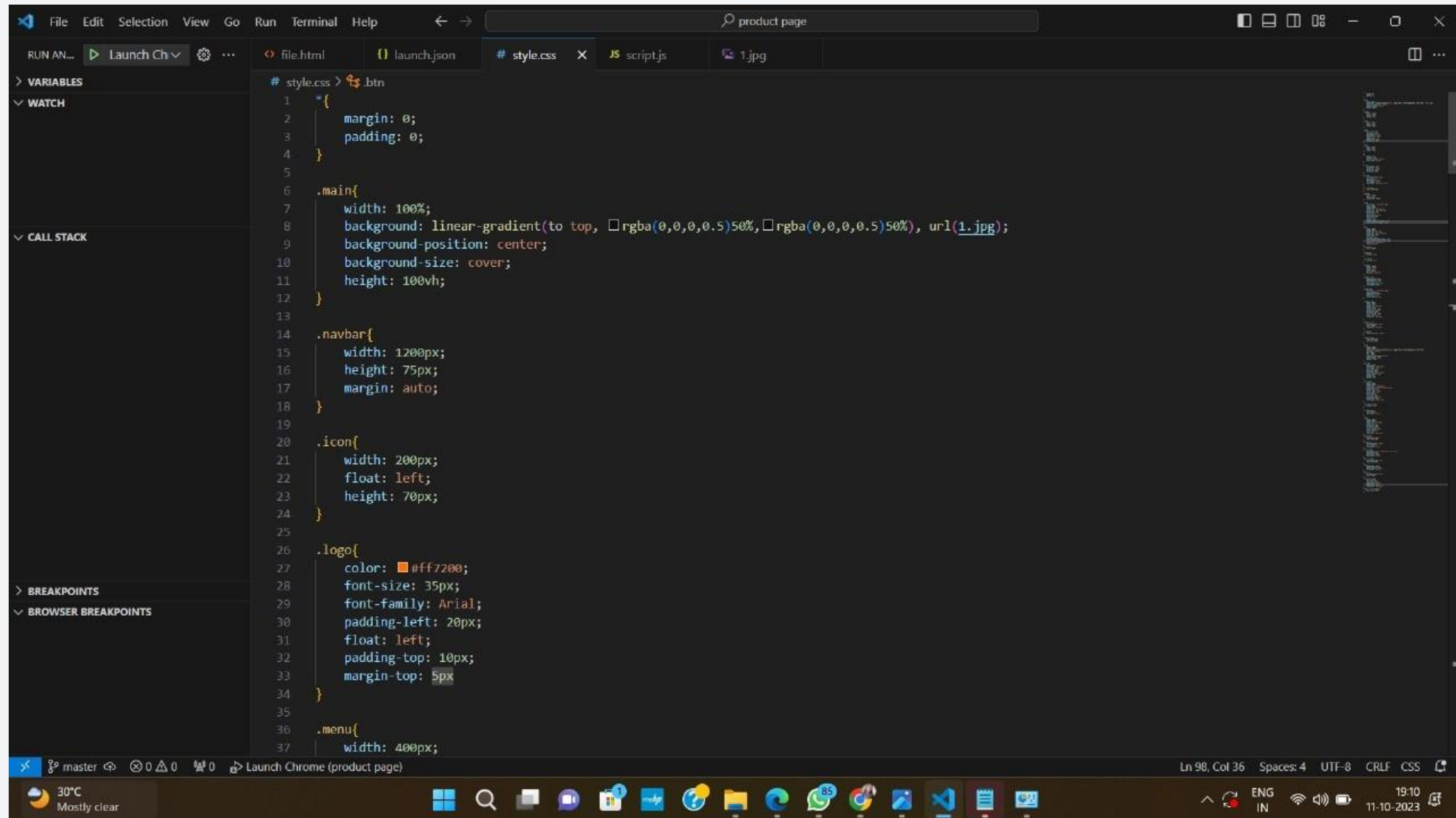
0 0 0

Launch Chrome (product page)

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

30°C Mostly clear

ENG IN 19:10 11-10-2023



FileEditSelectionViewGoRunTerminalHelp

product page

RUN AN...Launch Ch...file.htmllaunch.jsonstyle.cssscript.js1.jpg

> VARIABLES

> WATCH

> CALL STACK

> BREAKPOINTS

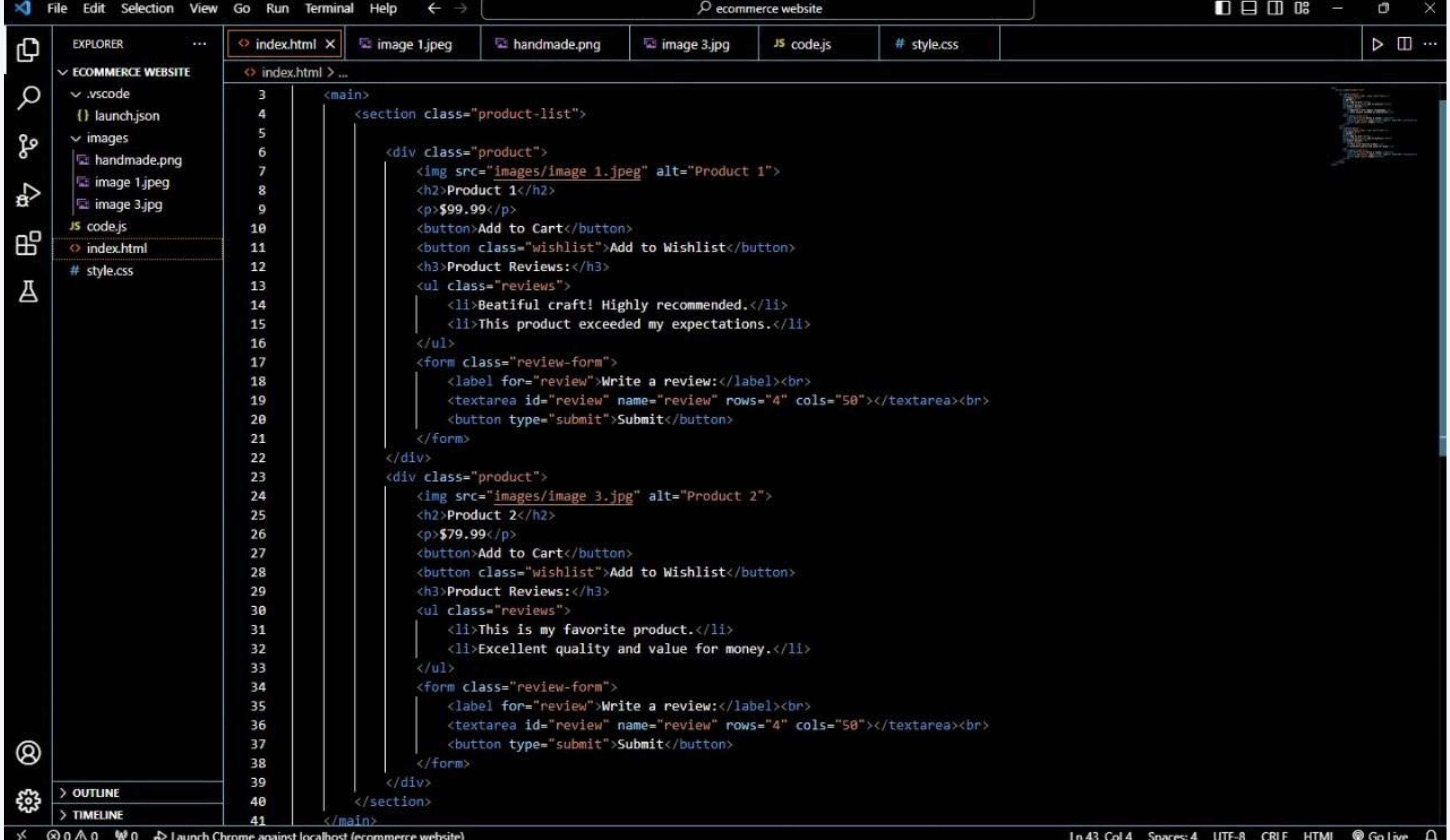
> BROWSER BREAKPOINTS

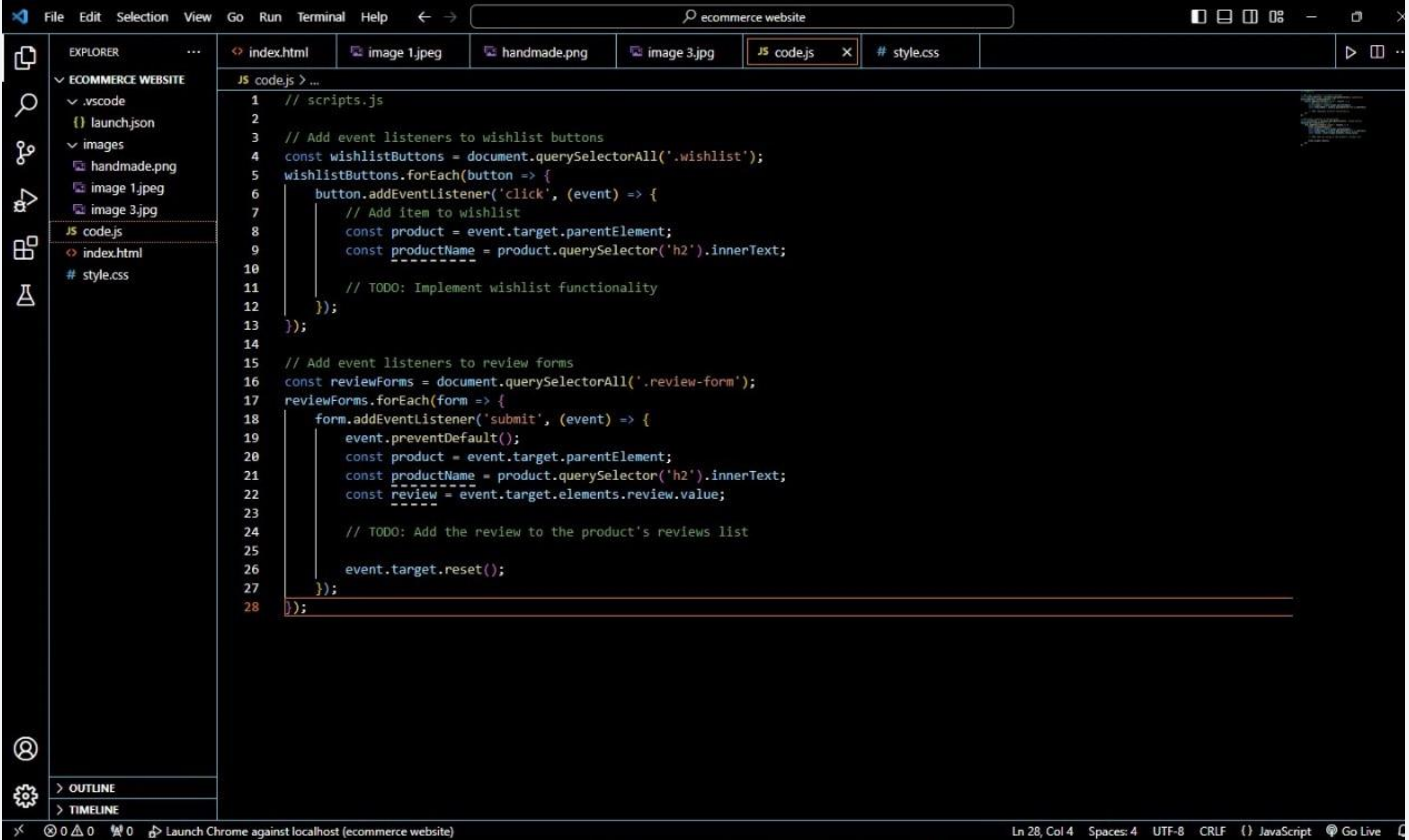
```
JS script.js <function>
1 (function(doc){
2   var scriptElm = doc.scripts[doc.scripts.length - 1];
3   var warn = ['[ionicons] Deprecated script, please remove: ' + scriptElm.outerHTML];
4
5   warn.push('To improve performance it is recommended to set the differential scripts in the head as follows:')
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);
```

Ln 20, Col 45Spaces: 4UTF-8CRLFJavaScript

30°CPartly cloudy

ENG IN19:1111-10-2023





FileEditSelectionViewGoRunTerminalHelp

ecommerce website

EXPLORER

ECOMMERCE WEBSITE

.vscode

launch.json

images

handmade.png

image 1.jpeg

image 3.jpg

code.js

index.html

style.css 1

OUTLINE

TIMELINE

index.html

image 1.jpeg

handmade.png

image 3.jpg

code.js

style.css 1

style.css > .product form

1main {

2padding: 20px;

3display: flex;

4flex-wrap: wrap;

5}

6

7.product-list {

8width: 100%;

9display: flex;

10flex-wrap: wrap;

11justify-content: space-between;

12}

13

14.product {

15width: calc(45% - 20px);

16margin-bottom: 20px;

17padding: 10px;

18background-color: #f8f8f8;

19}

20

21.product img {

22max-width: 100%;

23height: auto;

24}

25

26.product h2 {

27font-size: 18px;

28margin-top: 10px;

29margin-bottom: 5px;

30}

31

32.product p {

33font-weight: bold;

34margin-bottom: 10px;

35}

36

37.product button {

38margin-bottom: 10px;

39}

Ln 52, Col 2

Spaces: 4

UTF-8

CRLF

CSS

Go Live