| Market | Web Design Princi | iples | | |

 | | Text
888-555-5555-/a> | | | | | | Concept | Explanation | HTML/CSS Example | | |
|--|--------------------------|--|---|--
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--|---|---|--------------------|-------------------------------|---|--|-------------------|-----------------------------------|--|--|--------------------------------------|---|
| Mathematical Process | | | Use the same font and color scheme for all heading | ıs: |

 | | 888-555-55554/AP | Format Full | Name | | | | | rows and columns | . 2 | | 11 |
| Market | st | tyles) for consistency. | h1, h2 (font-family: Arial; color: navy;) | | Explanation

 | HTML/CSS E | xample | | | colors. | - Small icons or | | | | <caption>Table Titl</caption> | e | |
| Martin | Proximity Gr | roup related items together for better | <div class="contact-info">Phone:</div> | | using the style attribute

 | | | | | transparency.
- Supports | | | Colspan | Merge cells | Spa | nned Cell <td>></td> | > |
| Marches | Alignment Al | lign elements to create a clean, | | SS: | for a single page.

 | | | JPG Join | nt Photographic
erts Group | - Supports millio
of colors. | ons - Photographs o
images with gra | r complex dients. | Rowspan | | Spa | nned Cell <td></td> | |
| Mathematical Process | | , | ples) | | site-wide styling.

 | | stylesheet" href="styles.css"> | | | Uses lossy compression. | - High-quality in | ages. | Audio | with controls. | <audio controls=""><so
type="audio/mpeg"><</so
</audio> | urce src="aud
/audio> | io.mp3" |
| | Principle
Perceivable | Explanation | Example Lies all text for images of ma | | with the same class.

 | class="red": | >Red Text | PNG Port
Grap | table Network | - Supports millio
of colors. | ons - Images requiri
transparency. | | | with controls. | type="video/mp4"> </td <td>urce src="vid
video></td> <td>eo.mp4"</td> | urce src="vid
video> | eo.mp4" |
| | | users can perceive (see or hear). | <pre>src="image.jpg" alt="Descriptive text"></pre> | | using its ID.

 | <di< td=""><td>v id="header">Header</td><td></td><td></td><td>compression.
- Supports</td><td> High-quality gr
sharp edges. </td><td>aphics with</td><td>YouTube
Embed</td><td>videos using</td><td>src="https://www.vo</td><td>utube.com/emb</td><td>ed/VIDEO_ID</td></di<> | v id="header">Header | | | compression.
- Supports | High-quality gr
sharp edges. | aphics with | YouTube
Embed | videos using | src="https://www.vo | utube.com/emb | ed/VIDEO_ID |
| March Marc | Operable | interact with the interface. | href="#main">Skip to Main Content | Selector | specific container.

 | | | | | transparency. | | | | | | element. The | y are prefixed with a colon (:). |
| Table | Robust | and easy to understand. | | | elements.

 | | | | | | HTMI /CSS Evample | | :hover Appl
:focus Appl | lies styles when the
lies styles when an | user hovers over an eleme
element receives focus (e. | a., input fields). | input:focus { border: 2px solid blue: } |
| Market M | | | | opun Element | text.

 | | - color. rec, -initing | | Space outside | | |) or h1 (| :visited Ap
:first-child | oplies styles to visite
Applies styles to the | ed links. a:visited { color:
re first child of a parent ele | purple; }
ment. li:first-ch | ild { font-weight: bold; } |
| March Marc | Description Disp | plays terms and their <d1></d1> | <dt>Term</dt> <dd>Definition</dd> | Concept | Explanation

 | HTML/CSS Example | | Padding | Space betwee | n the content and | div (padding: 10p | x;) or div (| :nth-child () | Applies styles to the
Applies styles to | last child of a parent eleme
elements based on their po | ent. Edast-child
sition in a pare | { color: blue; }
ht element. li:nth-child(2) { background: |
| Marked M | Special Use | e entities to display reserved &cop | y; (©), < (<), > (>), & (&), () | | Display images with optional dimensions and

 | <pre><img alt="Description" pre="" src="image.jpg" widtl<=""/></pre> | h="100" | Border | Line around the | ne element's | | | | es styles to elemen | s that do not match a selec | tor. p:not(.sp | ecial) { color: gray; } |
| Mary | Anchor Tag Cre | eates hyperlinks. <a h<="" td=""><td>ref="http://example.com"</td><td></td><td>Sat an imana as the</td><td>body (background-image</td><td>e:</td><td>Rounded
Corners</td><td>Create rounde elements.</td><td>ed edges for</td><td>div (border-radiu</td><td>s: 18px; }</td><td></td><td></td><td></td><td></td><td>-1</td> | ref="http://example.com" | | Sat an imana as the

 | body (background-image | e: | Rounded
Corners | Create rounde elements. | ed edges for | div (border-radiu | s: 18px; } | | | | | -1 |
| Martin | tab. | | | |

 | | | Box Shadow | | | | 5px 5px 5px | | order they are | coded. | | |
| Market M | Telephone Initi | iates a phone call on <a h<="" td=""><td></td><td>illiage Link</td><td>hyperlink.</td><td>src="small.ipg"</td><td>-9</td><td></td><td></td><td></td><td>gray;)</td><td></td><td></td><td>another eleme</td><td>of the browser or
nt.</td><td></td><td></td> | | illiage Link | hyperlink.

 | src="small.ipg" | -9 | | | | gray;) | | | another eleme | of the browser or
nt. | | |
| Manual | | | | Favicon |

 | href="favicon.ico" | | | element. | | | | Overflow | Configures dis | play of elements; div | | |
| March Marc | Telephone & Text | | | Image Map |

 | coords="8.8.188.188" | shape="rect" | Gradient | | iling or colors as a | linear-gradient(to
white, blue); } | bottom, | Property | | efore container | | |
| Martin | - | - | | |

 | | | | | | | | | | | | |
| Mathematical Math | Basic E
Two-Column | 58% | ; } #right (float: | 4. :hover:/
5. :active: | Applies when the user hovers on
Applies when the hyperlink is

 | over the hyperlink with the n
being clicked or activated. | nouse. | if Statement | if (co | | | | console log(st
// Example 4: | tr.substring(12, 7)); //
Negative startindex | Output: "World"
(treated as 0) | | |
| Mary | Display C
Property d | | | Java Script is a
interpretation ha | n interpreted language not a c

 | ompiled language JavaScri | pt is interpreted when the code is run. The | else if Statem | nent else | , , , | | | // Example 1:
let result1 = to | tr.substring(-5, 5)); //
: Basic usage
ext.slice(0, 5); // Extra | Output: "Hello" | dusive) | |
| Mary | CSS S
Pseudo-classe | a:h | over { text-decoration: | Add inter <scriptty <="" script=""></scriptty> | activity (dynamic content, anir
pe="text/javascript">// JavaSc
· Or <script he<br="" language="JavaSc</td><td>nations). Collect user data :
ript code</td><td>(forms, prompts). Validate user input.</td><td>switch Stater</td><td>ment switc</td><td>ch (value) { case 'x': // co</td><td>ode; break; default: // code;</td><td></td><td>console.log(re
// Example 2:
let result2 = to</td><td>esult1); // Output: ">: Negative start index
ext.slice(-6); // Extract</td><td>lo"
s from index 7 (length - 6) to</td><td></td><td></td></tr><tr><td> Mathematical Process</td><td></td><td></td><td></td><td>Data types -</td><td colspan=3>Java script is a weekly typed language Data types -</td><td>Operators</td><td></td><td></td><td></td><td></td><td colspan=5>console log(result2); // Output: "World!" // Example 3: Negative start and end indices let result3 = text.slice(-6, -1); // Extracts from index 7 to index 11</td></tr><tr><td> Mart</td><td></td><td>Single image file containing .10</td><td>on { background:
.("sprite.png") -18nv</td><td>let age = 30; // f
let isStudent = t</td><td>Number
rue; // Boolean</td><td></td><td></td><td>for Loop</td><td>for (li</td><td>et i = 0; i < 3; i++) { // co</td><td></td><td></td><td colspan=6>console.log(result3); // Output: "World"
// Example 4: Start index > end index</td></tr><tr><td> March Marc</td><td>n</td><td>-28</td><td>ipx; }</td><td>let y = null; // No
let bigNum = 12</td><td>ill
:345678901234567890n: // Bio</td><td>gint</td><td></td><td></td><td></td><td></td><td>1)</td><td></td><td>console.log(re
Topic</td><td>esult4); // Output: ** Descrip</td><td>tion</td><td></td><td></td></tr><tr><td> March Marc</td><td>Vertical Navigation</td><td>on</td><td></td><td>let id = Symbol(
let person = { na</td><td>id"); // Symbol
ame: "John", age: 30); // Obie</td><td>ct</td><td></td><td></td><td></td><td></td><td>1);</td><td></td><td>What are Ja
Objects?</td><td>under a</td><td>single name. Used to gath</td><td>ods grouped
er everything</td><td>var person = { name: "John", age: 30 };</td></tr><tr><td> </td><td> <a href="index <a href="me" </td><td>x.htmi">Homeu.htmi">Menu</td><td></td><td>function greet()
let today = new</td><td>{ console.log("Hello"); } // Fun
Date(); // Date</td><td>ction</td><td></td><td>continue Stat</td><td>ement conti</td><td>inue; (skips current it</td><td></td><td></td><td>Creating Ja</td><td>avaScript Use the</td><td>new keyword and a constri</td><td>actor function</td><td>var myAmay = new Amay();</td></tr><tr><td> Mary 1900</td><td> </nav> nav ul {</td><td></td><td></td><td></td><td></td><td>const</td><td></td><td>Global Varia</td><td>ible let gi</td><td>iobalVar = "I'm globall";</td><td></td><td></td><td></td><td></td><td></td><td>bers. The</td><td>var myNumber = 23;</td></tr><tr><td> Mary Control Mary</td><td>list-style-type: none
hav a (</td><td>=:</td><td></td><td>Scope</td><td>Function-scoped or Block</td><td></td><td>oped</td><td>Return State</td><td>ement retur</td><td>n value;</td><td></td><td></td><td></td><td>variable
Data Variable</td><td>holds the actual value.
s hold a reference to the n</td><td>emory</td><td>var myArray = new Array("Paul",</td></tr><tr><td> Mary Mary </td><td>text-decoration: nor</td><td></td><td></td><td>Hoisting</td><td></td><td></td><td></td><td>Undefined Va
Concatenation</td><td>ariables, Case S
ng, Equals (=) Ra</td><td>ensitivity, Incorrect</td><td>pt Mistakes
t Number of Closing
al To" (== or ===). Inco</td><td>Braces, Missing + Signs When</td><td></td><td>address
data.</td><td>where the data is stored,</td><td>not the actual</td><td>"Jeremy", "Nick");</td></tr><tr><td> The content</td><td>Horizontal Naviga</td><td>ation</td><td></td><td>nt</td><td></td><td>-</td><td></td><td>Using a Meth
Error Han</td><td>nod as a Propert
Idling in Jav</td><td>y and Vice Versa</td><td></td><td></td><td>Properties</td><td>name.</td><td></td><td></td><td></td></tr><tr><td># Part</td><td> <ii><a href="menu </td><td>x.html">Home u.html">Menu</td><td></td><td></td><td></td><td></td><td></td><td>1. Prever</td><td>nting Errors
Test your code</td><td>on multiple platform</td><td></td><td>to come Statementa Haine to</td><td>Methods</td><td>name.</td><td></td><td></td><td>, ,,</td></tr><tr><td> </td><td><us><us><us><us><us><us><us><us><us><us</td><td></td><td></td><td></td><td></td><td>r data.</td><td></td><td>let str = "Hello,</td><td>Statements Usin
World!";</td><td>ng finally Clauses</td><td>pected errors. Using</td><td>trycatch Statements Using throw</td><td>Objects</td><td></td><td></td><td></td><td></td></tr><tr><td> </td><td>nav li (</td><td></td><td></td><td>First cha E</td><td>aracter: Must be a letter, unde
camples: myVariable, _myVariable</td><td>, \$myVariable</td><td></td><td>console.log(str.
// Example 2: E</td><td>substr(7)); // Outpo</td><td>ut: "World!"
s starting from index 7</td><td></td><td></td><td>String Prop</td><td>characte</td><td>er has an index starting fro</td><td>n 0.</td><td></td></tr><tr><td> Mary Control</td><td>nav a (
text-decoration: nor
padding-right: 10px</td><td>ne;</td><td></td><td>Case-se Creating and P</td><td>nsitive: myVariable ≠ MyVariable.
opulating Arrays:</td><td></td><td>www.alt wigginds</td><td>// Example 3: N
console.log/str.</td><td>legative startIndex
substr(-6)): // Outo</td><td>(counts from the end</td><td>)</td><td></td><td>String Meth</td><td>nod: Returns</td><td></td><td>le for the</td><td></td></tr><tr><td> Part</td><td></td><td></td><td></td><td>Populati</td><td>cample: var myArray = new Array() ng:</td><td></td><td></td><td>// Example 1: E</td><td>substr(-6, 3)); // Or
extract from index 7</td><td>utput: "Wor"
7 to the end</td><td></td><td></td><td>String Meth</td><td>nod: Convert</td><td>s Unicode character codes</td><td>to characters</td><td>var myString =</td></tr><tr><td> March Marc</td><td>1. :link: Appli</td><td>lies to hyperlinks in their default, unvisit</td><td>ed state.
Ited by the user.</td><td></td><td></td><td>Joe", 3, "xyz");</td><td></td><td>console log/str</td><td>substring(7)): // Or</td><td>utnut: "World!"</td><td></td><td></td><td>String Meth</td><td></td><td></td><td>ing inside a</td><td></td></tr><tr><td> Part</td><td>String Method:</td><td>Finds the last index position of a s</td><td>substring inside var found = myString.lastIndexOt("u");</td><td>o A</td><td>s Attributes: Add directly to H</td><td></td><td>Hick(V>Click Mer/s></td><td></td><td></td><td></td><td></td><td><pre><select name="theDay"><option value="0">Montavolonting>= hoto=></pre></td><td>6. RegE</td><td></td><td>to create require</td><td>nns ueina</td><td>lenEvn("[a-z]"\</td></tr><tr><td> March Marc</td><td>lastIndexOf()
String Method:</td><td>a string. Copies part of a string based on s</td><td>eterting index var mySubString =</td><td>o Ar</td><td>amer= somepage.htm*onclick
s Properties: Assign functions
ocument.links[0].onclick =link\$</td><td>to event handlers.</td><td>arun() >CIICK Mé</8></td><td>Select</td><td>- size: Numb</td><td>er of visible options.</td><td>None</td><td>value="0">Monday</option></select> <select name="theDay" size="2"</td><td></td><td></td><td>to create regular expression</td><td>using new F</td><td>wgexp("[a-z]").</td></tr><tr><td> March Marc</td><td>substr()
String Method:
substring()</td><td></td><td>starting and var mySubString =</td><td></td><td></td><td></td><td><pre><form><input type="text" name="username"></pre></td><td>Select Even</td><td></td><td></td><td>nis.</td><td><select onchange="alert("Selection</td><td> New \ </td><td>Window: Opening ar</td><td>d manipulating a new win</td><td>dow with windo</td><td>v.open() and document.write().</td></tr><tr><td> March Marc</td><td>String Method:
toLowerCase()</td><td>Converts a string to lowercase.</td><td>var myString = "JAVASCRIPT":</td><td></td><td>select elements.</td><td></td><td><form action="/submit"</td><td>Option</td><td>- <option>: Ré</td><td>epresents an item in</td><td>the dropdown list.</td><td></td><td> String RegEr </td><td>Manipulation: Rep
xp: Using regular ex</td><td>lacing text with replace()</td><td>or splitting stri</td><td>ngs with split().</td></tr><tr><td> Marchannes</td><td>String Method:
toUpperCase()</td><td>Converts a string to uppercase.</td><td>var myString = "javascript"; myString =
myString.toUpperCase();</td><td>Form
Form</td><td>- action: URL to submit the fi</td><td>orm data.</td><td>method="POST"></form> <form action="/submit" method="POST"</td><td>Option</td><td>- text: Display</td><td>yed text.</td><td>ray.</td><td><pre><option value="1" selected>Tuesday</pre></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td> March Marc</td><td>Array Object</td><td>An object that can hold multiple its</td><td></td><td>Attributes</td><td>- method: HTTP method (GE
- name: Name of the form fo</td><td>T or POST).
r scripting.</td><td>name="myForm"></form></td><td>Form Event</td><td>- value: Value
- onsubmit: Tr</td><td>sent to the server.</td><td></td><td><pre><form onsubmit="alert(Form submitted*)*></pre></td><td>۰</td><td> JavaScript </td><td>provides the Date object to</td><td>work with date</td><td>s and times, including UTC (Coordinated</td></tr><tr><td> Windows Wind</td><td>Array Property:
length</td><td></td><td>n array. alert(myNumber.length);</td><td></td><td>- Via forms array: document.f</td><td>orms(0)</td><td>document.forms(0)</td><td></td><td>ds - submit(): Su</td><td>bmits the form progr</td><td>rammatically.</td><td></td><td>0</td><td>■ Example: vi
UTC Methods:</td><td>r localTime = new Date</td><td></td><td>ate object for the current local time.</td></tr><tr><td> March West West </td><td>Array Method:
concat()</td><td></td><td>myNumber.concat(myNumberA);</td><td>Elements</td><td>- <input type="submit">: Submit</td><td>ts the form.</td><td></td><td></td><td>s:</td><td></td><td></td><td></td><td></td><td>■ toUT
■ toLo</td><td>CString(): Converts the d</td><td>ate and time to
local date and</td><td>time as a string.</td></tr><tr><td> Part Part </td><td>Array Method:
slice()</td><td></td><td></td><td>Text Elements</td><td>- <input type="password">: Pas</td><td>sword input.</td><td><input type="text" name="username" value="Hello World"></td><td>0</td><td>Example: <frane</td><td>set rows="58%, *"></td><td><frame name="Upper</td><td>panes within a single browser window.</td><td></td><td>■ getT
■ toLo</td><td>imezoneOffset(): Returns
caleTimeString(): Return</td><td>the difference
s the local time</td><td>in minutes between local time and UTC. as a string.</td></tr><tr><td> Part Part </td><td></td><td></td><td></td><td></td><td>- size: Width of the text box.</td><td></td><td></td><td></td><td>Access frames u
window.pa</td><td>sing:
arent to access the</td><td>parent frameset.</td><td></td><td></td><td>■ toLo
■ toDa</td><td>caleDateString():Return</td><td>s the local date</td><td>as a string.</td></tr><tr><td> Second 1</td><td>Array Method:</td><td></td><td></td><td></td><td>- value: Default value.</td><td></td><td></td><td>2. Openin</td><td>frames.</td><td></td><td>window.parent.fram</td><td>es['UpperWindow'] to access specific</td><td>۰</td><td>■ Use setTim</td><td></td><td></td><td></td></tr><tr><td> Part Part </td><td></td><td></td><td>ects provided by the hrowser for socialise</td><td>Methods
Text Element</td><td></td><td></td><td></td><td>></td><td>Use window.oper
(e.g., width, heigh</td><td>n() to open a new w
nt).</td><td></td><td></td><td></td><td>alert after 3
Use clearT</td><td>seconds.</td><td></td><td></td></tr><tr><td> Weak Section Section</td><td>Purpose: A 2. Common B</td><td>llows interaction with browser features
Browser Objects</td><td>like windows, history, location, and more.</td><td>Event
Handlers</td><td>onkeyup.</td><td></td><td>chatana arminin Total</td><td></td><td>"width=258, hei
Add HTML to a n</td><td>ght=258");.
ew window using do</td><td>cument.write().</td><td></td><td>۰</td><td> Use setInt Example: vi </td><td>r myTimerID = setInter</td><td>on repeatedly a
val(() => myF</td><td>specified intervals.
unction(), 5000); calls myFunction()</td></tr><tr><td> May Control Control</td><td>Exam Propi</td><td>nple: window.alent("Hello");
erties: Browser name, version, screen s</td><td>size, etc.</td><td>Element</td><td></td><td>pur.</td><td>cols="40"></textarea> <textarea name="myTextArea" rows="5"</td><td>3. Windo</td><td>Communicate be
w Manipulation:</td><td>tween windows usin</td><td>ng window.opener to a</td><td>ccess the original window.</td><td>, Vo.</td><td>every 5 sec
Use clearI</td><td>onds.</td><td></td><td></td></tr><tr><td> Part Part </td><td>History Obj Propo Meth</td><td>ject: Tracks visited pages (history stact
erties: length (number of pages in history
lods: back(), forward(), go().</td><td>k).
y).</td><td>Attributes</td><td> cols: Number of columns. wrap: Controls line wrapping </td><td></td><td>cols="40" wrap="soft"></textarea></td><td></td><td>■ resizeTo(
moveBy(de</td><td>(width, height), ma</td><td></td><td>y(deltaWidth, deltaHeight),</td><td>0</td><td>Date Object: var :
UTC Conversion: 1</td><td>ocalTime.toUTCString()</td><td>converts the d</td><td>ite to UTC.</td></tr><tr><td> Part Part </td><td>Location O Meth</td><td>bject: Contains current page's URL, se
rod: replace() (replaces current page in h</td><td>istory).</td><td>Handlers</td><td></td><td></td><td></td><td></td><td>Methods like sp1
Example: var ny</td><td>NewString = "Janu</td><td>earch(), and match() a
mary".replace("Janua</td><td>are used for string manipulation.
ary", "February");.</td><td>0</td><td></td><td>et:'imeout(() -> alert(</td><td>lime is Up!"</td><td>), seee); triggers an alert after 3</td></tr><tr><td> Policy Control (1998) Control (199</td><td>Prope Screen Obj</td><td>erties: appName, userAgent.
ject: Contains display properties (e.g.,</td><td></td><td>Radio Buttons</td><td>- <input type="radio">: Radio b</td><td></td><td>value="DVD" checked></td><td>5. Regula</td><td>r Expressions (R
Used for pattern</td><td>egExp):
matching, splitting, a</td><td>and replacing strings.</td><td></td><td>What are</td><td>Text files st</td><td>ored on a user's computer</td><td>Example</td><td></td></tr><tr><td>Figure 2. A Concess this process of a principle of the control of</td><td> Propr </td><td>erties: bgColor, images[], links[].</td><td></td><td>io Event</td><td>a - onciox, onfocus, onblur.</td><td></td><td> year system CHROSDOX
onclick="alert/"(Clicked?)"></td><td></td><td>Attributes like g (
Special character</td><td>'global) and 1 (case-
rs (e.g., \d, \b) and g</td><td>insensitive) can be app
grouping (()) are used</td><td>olied.
to define complex patterns.</td><td>Cookies?</td><td>to personali</td><td>ze web experiences (e.g.,</td><td></td><td></td></tr><tr><td> Part Section Part Part Section Part Section</td><td>ot- p-</td><td></td><td></td><td></td><td>■ Evened</td><td>t notElegrander (Co.</td><td>201")</td><td></td><td></td><td></td><td></td><td></td><td>0 1000</td><td></td><td></td><td></td><td></td></tr><tr><td> Name to tender for the count of the count</td><td>Six Parts of a
Cookie String</td><td>A cookie string consists of six parts:</td><td></td><td></td><td> element: Represents an H Example: var H1E </td><td>HTML element.
Lement = document.getEl</td><td>ementById("Heading1").</td><td>2. Grid Sy</td><td>aprs.s.erjarbootstrap.
ystem</td><td>min.js"><\script></td><td></td><td></td><td></td><td>e and Used to group
captions.</td><td><img src="lig
<figcaption>i</td><td>hthouse.jpg" alt="l
sland Lighthouse<</td><td>.ighthouse*>
figcaption></td></tr><tr><td> Second continue to the conti</td><td></td><td></td><td></td><td>_ **</td><td> node: Represents any node Example: var PE1 </td><td>le in the DOM (element, text</td><td>t, etc.).</td><td>Bootstrap
Basic Gri
<diyolass=</td><td>uses a 12-column gr
d Structure:
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• Exam</td><td>s child nodes.
nple: <body> is a child of <html>.</td><td></td><td>1. Bootstrap
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Cell = lastRow.getElementsByTagName Name = lastRookCell.innerText ://Rook :</td><td>("td")[1]</td><td></td><td>) <!- Name -</td><td>Text Field></td><td></td><td></td><td>const movies (title:</td><td>= ["Parasite", language: "Korean"], "3 idiots", language: "Hindi")</td><td></td><td></td></tr><tr><td>margin-left: auto; margin-right: auto; }</td><td>var lastindex</td><td>= parseint(lastBookName.split(" ")[1]) ment createFlementi"(")</td><td></td><td></td><td><div cla <label 1 <input 1</td><td>iss="form-control"> for="name">Full Name" type="text" name="nam</td><td>:</label> e" id="name" placeholder="Full Name" require</td><td>d></td><td>const getMovi</td><td>vie = {title: "A beautiful Mind", language: "En les = () => {</td><td>plish");</td><td></td></tr><tr><td>gallery (width: 150px; float: left,</td><td>var td1 = do: td1.innerHTB var td2 = do:</td><td>cument createElement("1d"); ML = '<input type="checkbox" onclick="s cument createElement("1d"); ML = "Book " + (lastIndex + 1);</td><td>selectRecord(this)*/>';</td><td></td><td><div ola</td><td>iss="error" id="error-na Emaild - Email Field</td><td>me">Please enter correct full name</div></td><td></td><td>for (le consc)</td><td>t movie of movies) { ple.log("getMovies: " + movie.title)</td><td></td><td></td></tr><tr><td>padding: 20pc; 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box-shadow-10px-10px grey; box-shadow-10px points; box-shadow-10px points; box-shadow-10px-10px grey;</td><td></td><td></td><td>0]+\[a-zA-Z][2,]\$/;</td><td></td><td><input I</td><td>type="text" name="phor iss="error" id="error-ph</td><td>ione Number*:</label> neNumber* id="phoneNumber" placeholder="x oneNumber">Please enter correct phone number</td><td>no-xxxx-xxxxx" required /> xxxx-xxxxx"</td><td>), 100))</td><td></td><td></td><td></td></tr><tr><td>desc { padding: 10px;</td><td>const feedbackForm const name = docum const emaild = docu</td><td>"(Tr. 1, (a-2) 2-2) dd/sp: = document getElementByld("teedback ent getElementByld("name"); ment getElementByld("emailid"); = document getElementByld("phoneNu se, isEmailID/laid = false, isPhoneNum</td><td>-form");</td><td></td><td>Jquery</td><td></td><td></td><td></td><td>const init = as getMi await</td><td>ync () => { zvies(); addMovie(newMovie, true);</td><td></td><td></td></tr><tr><td>tect-align: center; } avisited { color-violet;</td><td>const phoneNumber let isNameValid = fal- // Add event listener</td><td>= document getElementByld("phoneNu se, isEmailDValid = false, isPhoneNuml for Form Elements</td><td>mber"); berValid = false;</td><td></td><td>consist constitut</td><td>os://code.jquery.com/jqu sha256-/JqT3SQfawRc</td><td>uery-3.7.1.min.ja" w/BIHPThkBvs0OEvtFFmqPF/IYI/Cxo=" crosso</td><td>origin="anonymous">< script></td><td>getMi</td><td>ovies();</td><td></td><td></td></tr><tr><td>a:hover {</td><td>feedbackForm.addE name.addEventListe emailId.addEventList</td><td>for Form Elements ventListener("submit", submitForm); ner("input", validateFormControls); tener("input", validateFormControls);</td><td></td><td></td><td>Sample iquery</td><td></td><td></td><td></td><td></td><td>ole.log("%cDocument is ready to access HTF</td><td>fL elements in JS Code", "color:</td><td>Purple;");</td></tr><tr><td>color: green;</td><td>phoneNumber.addEv // Validation Function function validateForm // validate fie</td><td></td><td>ols);</td><td></td><td>S(document).re S("#mylr</td><td>eady(function () { iput").on("keyup", functi</td><td>ion () {</td><td></td><td>// Use // // E \$(".fit</td><td>class - highlight and red xercise 1 - Write code to filter odd and even er").click/() => { selectedRadio = \$("input[name='oddeven"]:</td><td>element in list</td><td></td></tr><tr><td><pre><head> <box> <box> </pre></td><td>// toggre disp</td><td>say of error message</td><td></td><td></td><td>var valu S/*#mv</td><td>ue = S(this).val().toLowe Table tr*).filter(function : owText = S(this).text().to).toggle(rowText.indexC</td><td>rCase();</td><td></td><td>if (sei</td><td>ectedRadio === "even") {</td><td>hecked").val();</td><td></td></tr><tr><td>- hadder ht-simage Galery Demo-<ht>- shadder disderie</td><td>const value a const targeti const errorFi</td><td>= event.target.value; d = event.target.id; eldid = 'error-\$(targetid)'; // template lite eld = document.getElementByld(errorFi</td><td>eral or use simple *error-</td><td>" + event.target.id;</td><td>S(this))))</td><td>).toggle(rowText.indexC</td><td>0f(value) > -1)</td><td></td><td>.adı</td><td>i) noveClass('highlight') index => index % 2 === 0) iClass('highlight'); if (selectedRadio === "odd") {</td><td></td><td></td></tr><tr><td></td><td>il(targetid == errorField.st)</td><td>ed = document.gest.annentbytojenori *name") { /le.display = value.trim().match(regExNa = value.trim().match(regExName);</td><td>ame) ? "none" : "block";</td><td></td><td><pre> <script src="scr clink min*enter </pre></td><td>ipt.js"></script> - In he iheet" href="styles.css":</td><td>and or body section</td><td></td><td>S("ul I</td><td>if (seected-radio === "odd") { if) noveClass("highlight") index => index % 2 !== 0)</td><td></td><td></td></tr><tr><td>ca href="magestrobat prog target=" julinit=" - ding ser="magestrobate prog target=" nobat"> - ding ser="magestrobate prog "at=" nobat"> - div class="fact=" f-bottal=" div> - ad-Olass="fact=" f-bottal=" div> - ad-Olass="fact=" f-bottal=" div> - ad-Olass="fact=" f-bottal=" div> - ad-Olass="fact=" fact=" div> - ad-Olass="fact=" fact=" div> - ad-Olass="fact=" fact=" div> - ad-Olass="fact=" fact=" fact=" div> - ad-Olass="fact=" fact=" fact=" div> - ad-Olass="fact=" fact=" fact="</td><td>const candidate =i</td><td>chain(users)</td><td></td><td></td><td>}</td><td>net into agreezas</td><td>- III Tream decision</td><td></td><td>selec</td><td>tList.addEventListener('change', handleListC</td><td></td><td></td></tr><tr><td>console log(selectedRadio);)) // Exercise 2 - Write code to reset - remove highlight and red class</td><td>.map('user') / .sort() // Sort .value(); // Ro</td><td>If Get an array of user names the user names alphabetically strieve the final value from the chain and Sorted User Names:", candidate);</td><td></td><td></td><td>padding } a:hove:</td><td></td><td></td><td></td><td>const const</td><td>submitBtn = document.getElementByld("sub firstName = document.getElementByld("first lastName = document.getElementByld(last email = document.getElementByld('email'd'</td><td>mitBtn'); Name'); Name');</td><td></td></tr><tr><td>S(' reset') cick(j) >> { S('ul ir') .nemoveClass('highlight');</td><td></td><td></td><td></td><td></td><td>color: S } &-conto</td><td>light-color; int {</td><td></td><td></td><td>const const</td><td>email = document.getElementByld('emaild' phone = document.getElementByld('phonel zipcode = document.getElementByld('zipco</td><td>(lumber'); de');</td><td></td></tr><tr><td>))):</td><td>const p1 = new Prom setTimeout((resolve(20);), 200);</td><td>nise((resolve, reject) => {) => {</td><td></td><td></td><td>display justify-c align-its</td><td>content: center; ems: center;</td><td></td><td></td><td>const const</td><td>prione = document, get: Elements/inc/prionet zipoode = document, getElements/ind/zipco comments = document getElements/yid/cor address2 = document getElements/yid/add address2Counter = document getElements dataTable = document.getElements/id/data</td><td>nments"); ress2"); yld ('address2Counter');</td><td></td></tr><tr><td>dass Calculator (constructor() (</td><td>)); const p2 = new Prom</td><td>nise((resolve, reject) => {</td><td></td><td></td><td>height: } img {</td><td>100%;</td><td></td><td></td><td></td><td></td><td>(14DM*);</td><td></td></tr><tr><td>#fix value = 0; } add(ncm) { #fix value = nmx:</td><td>setTimeout((reject(10);), 100);</td><td>) ⇒ (</td><td></td><td></td><td>width: 5 } h1 { font-siz</td><td></td><td></td><td></td><td>pnone</td><td>case inpus on key evens ame. addEventl. istener("input", validateField); andEventl. istener("input", validateField); addEventl. istener("input", validateField); file addEventl. istener("input", validateField); file addEventl. istener("input", validateField);</td><td></td><td></td></tr><tr><td>this value *= num; return this, 'Return the current object to support chaining) subtract(num) {</td><td>setTimeout()</td><td>nise((resolve, reject) => {) => {</td><td></td><td></td><td>font-siz line-hei)</td><td></td><td></td><td></td><td>comn</td><td>nents.addEventListener('input', validateField) tress 2 live character counter</td><td>erCount!</td><td></td></tr><tr><td>subtract(num) { this value = num; return this; # Return the current object to support chaining }</td><td>resolve(30);), 300);)); // Promise.all([p1, p2</td><td>. 030)</td><td></td><td></td><td>P { margin }</td><td>20рх 0;</td><td></td><td></td><td>addre // Ene</td><td>ss2.addEventListener('input', updateCharac ible/Disable submit button</td><td>accounty,</td><td></td></tr><tr><td>) matiply(num) { this value *= num; return this, if Return the current object to support chaining</td><td>// .then((succe // .catch(error =</td><td>ss) => console.log(success)) => console.error("i got an error", error)) console.log("Elogible it is questit"));</td><td></td><td></td><td>) %btn (</td><td></td><td></td><td></td><td></td><td>ne number input mask e.addEventListener("input", applyPhoneMask</td><td>:</td><td></td></tr><tr><td>) divide(num) { this value /= num:</td><td>Promise race([p1, p2 .then((succe .catch(error</td><td>; p3[) ss) => console.log(success)) => console.error("l got an error", error))</td><td></td><td></td><td>display border- narish-</td><td>inline-block; radius: 5px; g: 8px 20px;</td><td></td><td></td><td>function valida const</td><td>steField(e) { field = e.target; field(d = field.id;</td><td></td><td></td></tr><tr><td>return this; // Return the current object to support chaining</td><td>finally(() =></td><td>console.error(") got an error", error)) console.log("Finally it is over!!!"));</td><td></td><td></td><td></td><td>g: spx 20px; : 3px; r { mr: scale(:98);</td><td></td><td></td><td></td><td></td><td>S(SeldId)Error'); stem\edu\$/;</td><td></td></tr><tr><td>geffectif) (return this value; # Final result after chaining operations)</td><td>@import 'utilities'; @import 'confio':</td><td></td><td></td><td></td><td>} .btn-primary {</td><td></td><td></td><td></td><td></td><td>regexPhone = /*\('\d(3\)\) \(\d(3\)-\d(4\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</td><td></td><td></td></tr><tr><td>if const calculator = new Calculator(); if calculator ado(10); if ca</td><td>@import 'config'; @import 'mobile'; @import 'buttons'; " {</td><td></td><td></td><td></td><td>@exter @inclu</td><td>de set-background(light</td><td>ten(Sprimary-color, 10));</td><td></td><td>case isVali /*[a-zA-Z\s]+\$</td><td>'firstName': d = field.value.trim() !== " && field.value.trim l/.test(field.value);</td><td>).length >= 3 && field.value.trim</td><td>).length <= 20 &&</td></tr><tr><td>ar canculator multiply(4); if calculator divide(2); if calculator divide(2);</td><td>box-sizing: b margin: 0; padding: 0;</td><td>order-bax;</td><td></td><td></td><td>btn-secondary @exter @inclu</td><td>{ nd %btn; de set-background(\$sec</td><td>condary-color);</td><td></td><td>oreas oreas</td><td>lastName*</td><td></td><td>).length <= 20 && /*[a-zA-Z]+\$/.test(field.value)</td></tr><tr><td># console log(calculator get Result()); if 'Chaining methods' const result = new Calculator()</td><td>} body { background-</td><td>color: \$secondary-color;</td><td></td><td></td><td>}</td><td></td><td></td><td></td><td>break case isVali</td><td>; 'emailid': d = regexEmail.test(field.value);</td><td></td><td></td></tr><tr><td>.add(10) .subtract(2) .multp)(4)</td><td>font-family: \$ line-height: 1 }</td><td>font-stack; .6;</td><td></td><td></td><td>@media (max-i showo height:</td><td>ase { 400px;</td><td></td><td></td><td>case isVali</td><td>; 'phoneNumber': d = regexPhone.test(field.value);</td><td></td><td></td></tr><tr><td>.divisio(2) .getResutt(); console.log("Result", result); // Output: Result: 16</td><td>height: 600p</td><td>t-background (Sprimary-color); x;</td><td></td><td></td><td>&-come</td><td>ent { gn: center;</td><td></td><td></td><td>break case isVali break</td><td>; zipcode': d = regexZipcode.test(field.value);</td><td></td><td></td></tr><tr><td>control (see 1 (most), in Cologo recount, re (later "Mext", lage", 25), (later "Box", lage", 30), (later "Charlet", lage", 35), (later "Charlet", lage", 35),</td><td>nav { display: flex; justify-conter</td><td>nt: space-between;</td><td></td><td></td><td>img { display</td><td>none;</td><td></td><td></td><td>case isVali</td><td>comments": d = field.value.trim() !== ";</td><td></td><td></td></tr><tr><td>(user: Tunane, agert 36), (user: Tunane, agert 36), (user: Teve, 'agert 25)</td><td>align-items: () ul { display: flex;</td><td></td><td></td><td></td><td>)</td><td></td><td></td><td></td><td>break defau break</td><td>it:</td><td></td><td></td></tr><tr><td>Using Lodash chain method to fiter, map, and sort field classList remove('input-error');</td><td>list-style-type</td><td>e: none; onfirmPassword(password, confirmPass wordError').text("Passwords do not mab</td><td>sword)) (</td><td></td><td></td><td>= document.getElemen ator === "divide" && nu</td><td></td><td></td><td>if (is/</td><td>alid) { on resetStopwatch() {</td><td></td><td></td></tr><tr><td>field classList.add("input-valid"); errorElement.classList.add("hidden");</td><td>isValid a fals</td><td>er .</td><td>ch.');</td><td></td><td>\$("#numbe return;</td><td>er2Error").text("Cannot i</td><td>divide by zero.");</td><td></td><td>stopS hours</td><td>topwatch();</td><td></td><td></td></tr><tr><td> Nation </td><td>)</td><td>asswordError").text(");</td><td></td><td></td><td></td><td>perations = { , b) => a + b, t: (a, b) => a - b,</td><td></td><td></td><td>secon updat }</td><td>ids = 0; eTimeDisplay();</td><td></td><td></td></tr><tr><td>)</td><td>)</td><td>on').prop('disabled', lisValid);</td><td></td><td></td><td>divide:</td><td>: (a, b) => a * b, (a, b) => a / b</td><td></td><td></td><td>// Eve \$("#si await</td><td>nt listeners for buttons lartBtn").click(async function () { startStopwatch(); // Use await to handle the</td><td>asynchronous start</td><td></td></tr><tr><td>S(document).ready(function() (function validateEmail(email) (</td><td>S(#email, #u validateInput)):</td><td>sername, #password, #confirmPasswor s();</td><td>rd').on('input', function() {</td><td></td><td>); // Event listener</td><td></td><td></td><td></td><td>}): \$("#si</td><td>topBtn*).click(function () { topwatch();</td><td></td><td></td></tr><tr><td>const emailPattern = /*[a-zA-Z0-0_%+-]+@northeasternil.edu\$/; return emailPattern.test(email); }</td><td>\$(#loginForr event.prever</td><td>n').submit(function(event) { rtDefault();</td><td></td><td></td><td>\$("#addButton" \$("#subtractBut \$("#multiplyBut</td><td>).click(() => performCali ton*).click(() => perform ton*).click(() => perform</td><td>culation("add")); nCalculation("subtract")); iCalculation("multiply"));</td><td></td><td>)): S("#re reset!</td><td>ssetBtn*).click(function () { stopwatch();</td><td></td><td></td></tr><tr><td>function validateLisemame(username) { const usernamePattern = /*[a_zA,Z]+Si/;</td><td>localStorage alerti*Login s</td><td>me = \$(#username').val(); // Get the en .setItem(ToggedinUser', username); // S uccessfull');</td><td>tore it in localStorage</td><td></td><td>No.</td><td>n").click(() => performC ady(function () {</td><td>alculation("divide"));</td><td></td><td>)); // Disa \$("#datePic</td><td>able manual editing of the date picker (ker").on("input", function () {).prop("disabled", true);</td><td></td><td></td></tr><tr><td>return usemamePattern test(usemame);)</td><td>window.locat }): }):</td><td>ion.hnef = "calculator.html"; // Redirect to</td><td>the calculator page afte</td><td>r successful login</td><td>let hour</td><td>'s = 0, minutes = 0, sec val = null</td><td>onds = 0;</td><td></td><td>)); // teats</td><td>alize the date nicker with the current date</td><td>officers.</td><td></td></tr><tr><td>function validatePasswordpassword { return password length >= 6 && password length <= 20; }</td><td>\$(document) ready(fi</td><td>inction() {</td><td></td><td></td><td>// Func function</td><td>nning = false; sion to update the time of updateTimeDisplay() { eDisplay*).text(</td><td>display</td><td></td><td>// Initi updat</td><td>atePicker*).val(new Date().toISOString().spli alize the time display eTimeDisplay();</td><td>(т дод).</td><td></td></tr><tr><td>function validateConfirmPassword(password, confirmPassword) { return password === confirmPassword; }</td><td>if (username) (</td><td>ocalStorage.getftem("loggedinUser"); // C nlay").text("\$(username)");</td><td></td><td></td><td>S(Strin</td><td>g(hours).padStart(2, '0'</td><td>)}-\${String(minutes).padStart/2, '0'))-\${String(si</td><td>econds).padStart(2, '0'))'</td><td><pre>// </pre> <pre>// </pre> <pre>/ <pre>// </pre> <pre>// </pre> <pre>// </pre> <pre>// </pre> <pre>// </pre> <pre>// <pr</td><td>htmi></td><td></td><td></td></tr><tr><td>function validateInputs() { most email = \$\frac{1}{2}\text{monst} \cdot \c</td><td></td><td>ion.href = "login.html"; // Redirect if not l</td><td>logged in</td><td></td><td></td><td></td><td>peration (e.g., fetching data or waiting) - setTimeout(resolve, ms));</td><td></td><td><head></td><td>a charset="UTF-8"></td><td>idth initial scales 10°></td><td></td></tr><tr><td>const email = (\$(eman() val(); const useman = \$(\$(useman(e) val(); const password = \$(\$(useman(e) val(); const confirm@assword = \$((useman() val(); confirm@assword = \$((useman() val(); confirm@a</td><td>const validateNumbe let value = \$i \$(errorid).tex</td><td>r = (inputid, errorld) => { [inputid).val().trim();</td><td></td><td></td><td>3</td><td>ion to start the stopwat unction startStopwatch</td><td></td><td></td><td><tities <style</td><td>a name= viewport content= won=oevice-w -Simple HTML Layout</td><td></td><td></td></tr><tr><td>let isValid = true;</td><td>if (value ===</td><td>") { d("This field cannot be empty."):</td><td></td><td></td><td></td><td></td><td></td><td></td><td></style></titie></titie></iri>												
if (validateEmail(email)) { \$("emailError') text(r)*lease enter a valid Northeastern email address."); is/biblid = false;) if (\!^-?\d+(\.\ \$(errorld).tex	d+)?\$/.test(value)) { t("Only numbers are allowed.");				ing = true; = setInterval(() => { s++; nds === 60) { seconds = 0;			<hea <h1>l <hea< td=""><td>My Website</td></hea<></h1> der></hea 	My Website		
) ette (\$(*tennalError') text("); }	return false;	alue)) { t("Invalid number.");			1	minutes++; tes === 60) { minutes = 0;			<nav< td=""><td>href="#">Home< a>< ii> href="#">About< a>< ii></td><td></td><td></td></nav<>	href="#">Home< a>< ii> href="#">About< a>< ii>		
If (validateLisemame(username)) { \$(*BusernameError').text(*Username should not contain special characters or numbers.*);	return false;	n(*invalid number.*);			,	hours++;			4Þ4	a href="#">About a href="#">Services a href="#">Contact		
is vivilid = failer;) ette (\$(#usernameError').text(");	return true;); \$("#number1, #numb	ner2").on("input", function () {			update), 1000 // Simu	TimeDisplay();); late an asynchronous o	peration		vinav div o	> plass="container">		
) If (vialidatePassword(password)) { \$(#passwordEmo*), sted*Password should be between 6 and 20 characters.");)); // Single arrow functi	(this.id)", "#\$(this.id)Error"); on for all operations				elay(100); // Wait for 10 s.log("Stopwatch started			<asid <a="" <asid="">h2>5</asid>	e> lidebar his is the sidebar content		
\$(*passwordError).sed(*password should be between 6 and 20 characters."); is/bials = false; else { \$(*passwordError).sed(*); }	const performCalcula let num1Valii let num2Valii	tion = (operator) => { 5 = validateNumber("#number1", "#num 5 = validateNumber("#number2", "#num	ber1Error*); ber2Error*); me invalid		function	sion to stop the stopwati n stopStopwatch() {	ch		<mair <h2>l</h2></mair 	te> 1> Main Content his is the main content area.		
)``		d hum2Valid) return; // Stop if inputs a arseFloat(\$("#number1").val()); arseFloat(\$("#number2").val());				terval(interval); ing = false; tion to reset the stopwal	toh		Imale of the control o	n>		
<	Other Form Elements				CSS Image G	allery	Creates an interactive image gallery using CSS.	html a href="photo1.jpg"></img 	Use Case	Minor adjustments to Positioning an element's position specific cont or as a reference for	ainer or context. s	ements that need to stay in the ime place on the screen (e.g., icky headers).
Midtern q	<label></label>	Associates a text label with a form control.	label for="email"> <input is<="" li="" type="text"/>	Email' <label> d="email"></label>						or as a reference for absolutely positioned children.	\$	y
function createStyledButton() (// Create a button element	<feldset></feldset>	Groups related form controls visually.	<fieldset> <legend>Contact in </legend></fieldset>					sapan-ming him him him diden width="40" hight="300" aller Golden Gate Bridge">-chr-Golden Gate Bridge-(span>-cla>-cli>- css #gallery span { position: absolute; left: -1000px; } #gallery a hover span {				
const button = document_createElement("button"); # Set button text button text button text # Set button text	HTML5 Form	Adds a caption to a <fieldset>.</fieldset>	legend>Personal	Details				position: absolute; top: 1-bpx; left: 320px; }	Example	position: top: 50px	(position: absolute; c; left: 100px; } f	ss .navbar { position: ixed; top: 0; left: 0; }
Colons (account of the Colons) Apply styles of the Colons (account of the Colons) Apply styles observed the Colons (account of the Colons) Apply colons - "white"; button style colons - "white"; button style colons - "white"; button style colons - "mone";	Features Email Text Box	Validates email format.	<input <br="" type="email"/> id="email" required	"name="email" >-	CSS Drop-Dov	vn Menu	Creates a dropdown menu using CSS positioning.	css nav { position: relative; } nav ul ul { display: none; position: absolute; } nav ul li:hower > ul { display: block; }		relative; top: 18px; left: 28px;)		
		Validates URL format.	<input na<br="" type="urf"/> id="website">	ame="website"	HTML5 Web S	torage	Stores data on the client side using localStorage and sessionStorage.	localStorage.setItem("name", "John"); sessionStorage.setItem("session".	Feature	Promises	async Functions	await Keyword
button style borderRadius = "Opur"; button style fortisize = "Tepur"; button style cursor = "portiner";	Вак	Accepts telephone numbers.	<input na<br="" type="tel"/> id="phone">		localStorage		Stores data without an expiration date.	"12345"); localStorage.getitem("name"); localStorage.removeitem("name");	Definition	An object representing the eventual result of an asynchronous operation.	A function that automatically returns a Promise.	A keyword used inside async functions to pause execution
button, style_transition = "background-color 0.3s ease"; # Add hover effect: button addSteverEustener("mouseover", function() {		Accepts search terms. Provides autocomplete options for text	<input query"="" type="seard
id="/> t <input i<="" td="" type="text"/> <td></td> <td>sessionStorag</td> <td>0</td> <td>Stores data only for the duration of the brows session.</td> <td></td> <td></td> <td></td> <td></td> <td>until a Promise resolves.</td>		sessionStorag	0	Stores data only for the duration of the brows session.					until a Promise resolves.
button style: background:Color = "orange";]);	Desert Cofffol	Provides autocomplete options for text input.	t <input ii<br="" type="text"/> <datalist id="colors
<option value=" red<br=""></datalist>		JavaScript for	Web Storage	session. Used to interact with localStorage and sessionStorage.	invaccint localStorage cettlem/"key"	Syntax	javascript new Promise((resolve, reject) => {	javascript async function myFunction()	javascript const result { = await myPromise;
button_addEventLishener("mouseout", function() { button.style_backgroundColor = "green", });	Slider Control	Allows selection of a value from a rang		"name="volume" "max="100">				"value"); let data = localStorage.getitem("key");	Return Value)); Resolves to a value or rejects with an)	Returns the resolved value of the Promise.
# Append button to body document body appendChild(button);	Spinner Control	Allows selection of a number.	<input id<br="" quantity"="" type="numb
name="/> min="1" max="10">	er" ="quantity"	Feature	Relative Positioning		Fixed Positioning		error. Uses .catch() or chained .then() for errors.		
Call the function to create the button create(StyledButton();		Allows selection of a date.	<pre>min="1" max="10"> <input id="dob" type="date"/></pre>		Definition	Positioned relative t its normal position i the document flow.	to Positioned relative to the nearest in positioned ancestor (or the viewport if none).	Positioned relative to the viewport (browser window).	Execution	Asynchronous, requires chaining	Asynchronous, but code look	Pauses execution of the async
Bootstap 4's grid system is a flexhor-based, 12-column layout that ensures responsive design across different coreen sizes using breakpoints (so, so, so, st, ip, s, i). Containers (constainers, constainers-failed water prival purposes; crew) within had columns (containers). Counters on the out-of-control prival priv	Color-well Control	Allows selection of a color.	<input <br="" type="color"/> id="favcolor">	name="favcolor"					Flow	.then() and .catch().	synchronous due to await.	function until the Promise resolves.
Columns can be auth-sized, custom-sized, offset, or nested for flexible layouts. The grid adapts dynamically based on screen width, with flexbox utilities (slign-sixems-, justify-content-) enabling precise alignment and spacing, making it a mobile-first, adaptive syste for modern web development.	M Helper Applications	Programs that hand .wax, .mpg) in a sep	le specific file types (e.g. arate window.	A media player opening a .mpg file outside the browser.	Document Flow	Remains in the document flow. Oth elements behave as	Removed from the document flow. Other elements act as if it doesn't exist.	 Removed from the document flow. Other elements act as if it doesn't exist. 	Use Case	Handling single asynchronous operations.	Simplifies working with Promises and multiple asynchronous operations.	Simplifies sequential asynchronous operations.
The breakpoints include Extra Small (, col-, < 576px), Small (, col-se-*, ≥ 576px), Medium (, col-sd-*, ≥ 768px), Large (, col-sl-*, ≥ 768px), Large (, col-sl-*, ≥ 7400px)	Plug-ins	Programs that run w	vithin the browser to	Adobe Flash Player for playing .swf files		it's in its original position.		-	B	invaceriet	asynchronous operations.	javascript const data =
Forms:	HTML5 <embed/> E	integrate media dire lement Embeds external co		in the browser.	Reference Poin	t Its original position the document flow.	in Nearest positioned ancestor (parent wit position: relative, absolute,	h The viewport (browser window).	Example	javascript fetch(url).then(response => response.json()).catch(error	javascript async function fetchData() return await	pavascript const data = await fetchData();
Overview of Forms are used to accept information and Search forms, order forms, provide interactivity on websites newsitete rign-up forms, survey forms, etc.	minuth <embed/> E	lement Embeds external co directly into a web p	age.	<pre><embed height="100" src="fall5.swf" type="application/x-shockwave-flash" width="640"/></pre>			fixed).			-> console.error(error));	fetch(url); }	
Two Components of Forms of Forms of Forms 2. Server-Side Processing: Handle forms data (e.g., south earnall, updatus	CSS3 Transform Pr	operty Allows rotation, scall elements.	ling, skewing, or moving	transform: rotate(3deg); transform: scale(2);	Scrolling Behavior	Moves with the pag when scrolled.	 Moves with the page if inside a positioned ancestor; otherwise, stays with the viewport. 	Stays fixed in the same place on the screen, even when the page is scrolled.				
data (e.g., sends email, updates database).	CSS3 Transition Pro		property values over a	nav a:hover { background-color: #eaeaea; transition: background-color 2s linear; }			-					
				ZX EFFORT, }								