Assignment:

Update the Doctype:

In sure you html document start with with HTML doctype to leverage HTML features.

<!DOCTYPE html>

Use New Semantic Elements:

Replace generic <div> and <span> tags tags with HTML semantic element to improve readability.

<header> for header

<nav> for section

<article> for self contained.

<aside> for side content

<main> Primary content

Update forms with New Input:

HTML3 introduce new input type that enhance use experience

<input type = "email> email address

<input type = "url > for URL

<input type = "data> for data

<input type = "number> for numeric input

Add term Attributes

Add term Attributes : new attributes to improve form functionality

Implement new form element : Take advantage of new form element

<datalist> to Provide option on <input>

Improve Accessibility

ARIA . Roles and Attributes : use ARIA rol & and attribute to improve

Example for Transitional form.

```
<form action = '/submit'
  method = "post" >
  <div>
    <label>
      for = 'username' > username : <label>
    id = 'username' name' username'
  </div>
  <div>
    <input type = 'submit' >
    value = 'submit' >
  </div>
</form>
```

color : white ;
cursor : pointer;

```
</script>
</body>
</html>

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport">
```

content : width device-width

```
<style>
  margin 0;
  padding;
```

```
<div class="main">fixed width
  content </div>
```

```
</body>
</html>
```

```
2 | DOCTYPE html>
2 html | lang : "en">
< head>
    <meta charset : "UTF-8">
    <meta vam = "viewport".
        scale = 1.0">
<title> wba registration from </title>
<style>
    body
        font = family ; Aria;
        don't = serif ;

Serif - serif

        may - width : 100%;
        margin : auto;

        display : flex;
        flex direction;

column ;

        label font
        .. margin = 10px 0 5px ;

input text area
    padding: 5px
    margin bottom : 10px ;
    border : 1px solid # ccc;

button {
```

border box;
y
@ medical max width:
container

y
y

.div class = "container">
.div class = "item"> Content 4...

</div>
</body>
</html>

<!DOCTYPE html>
<html lang = "en">
<head>

<meta charset = "utf-8">

<meta name = "viewport"
content ' width = device-width, initial...

</head>
<style>
</style>

<body>
zol4 = "Example Image">
</body>
</html>
</head> pimat hreg

webpage Design (Assignment)-2
Product Listing

Sample HTML Layout that it
includes Product image, descriptions and
Pricing laid out with table and
lists where appropriate.

HTML Structure

```
<|DOCTYPE HTML>
< html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport".
    <title> Product Listening </title>
</head>
<h1> Product </h1> <string> </h1>
<nav>
    <h1>
        <li> <a
        <li> a Home </a> <|+
href: do home > Contact <la></li>
        <li> a
    </ul>
    </nav>
</header>
    <footer>
        <p> & copy; 2024 my
    </footer>
</body>
</html>
```

(4)

Java Script (script w).

```
document. add event < listence (
    loader (1 est
    console. log ( document load and
                   passed);
y);
```

fluid Grids

Percentage - based width

```
<! DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "otf - 8">
    <meta name = "view point">
Content = " width = davice width :
          initial scale = 1.0">
<title> Responsive layout with fluid
<style>
    body {
        margin: 0;
        font - family : Arial;
    }
    .box {
        @ media (max - width : 768 px)
        container {
```

```
import
    Java x . servlet . exception ;
import
    Java . servlet . annotation . webservlet
import
    Java x . servlet . http . Http servlet .
import
    Java x . servlet . http . httpservlet Respo
import .
    Java . servlet . http . http servlet Requ
import Java x . servlet . http . http session
import Java . io . Io . exception ;
import Java . io . Print writer ;

Public class Tracking session servlet
                HTTP servlet {

dooet ,
throws servlet Exce ption .

IoException L
    response : set Contort type
    http session  session = Request

Integer access count = ( Integer )
session . get . Attribute (" accessbount ")
```

grid-template - columns : 1 fr;
3
4

```
<div class = "container">
    <div class = "item" > content </div>
    <div class : item" > content </div>
</div>
</body>
</html>
```

flexible Images

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport"
    content = "width = device - width, initial-
    scale = 1.0">
    <style>
    </style>
</head>
<body>
    <image src = "sample.jpg"
    alt = "example image">
</body>
</html>
```

ID = "+ Session Idt : <IP>");
Time : "+ now
Access : "+ access count "+ % 10>"5
out . Println ["% 2 /body> < /html>"];
y
y

Output

<P> Session Id : 1234567890abc<IP>
<P> Creation Time : mon Sep 10 15:20:20
2024 <IP>
<P> Last accessed time : mon Sep 10
<P> number of access : 6 < IP>.
y

Scenario using JSP

In a web application, you ha
a requirement to display a list of
product with varying categories.

Solution using JSP

import Java x . Servlet . Servlet . Exception
import Java y . Servlet . annotation .
import Java x . Servlet . http . Servlet .
import Java . Io . IO . Exception
import Java . util . map
import Java . util . HashMap
import Java . util . block map)

① Configure Data Source context xml

< context >

    < Resource name = "Jbbc I my Data source"

type = " Java x . 3c1 DataSource"

                  max total = 20

                  max . Idle = "10"

max wait millis = "10000"

username   = " dbuser"

Password   = " dbpassword"

direclass name = "cam . mysql cj . jbc .

< I context >

Collable Statement

import Java . sq1 . Collable statement

import Java sq2 . Connection,

import Java . sq1 . Types

Public class CollableStement Example {

String sq1 : "{call get Employee nam

                      { } , } } ;

try (Connection con = Database with List

             . Connectia ( );

Employee name . Cstml . get string (2

S. O. P (" Response : response)

y

y

output

Payment Response : Payment

for amount 100. 00 oɔD

```
if () user response){
    window.location.reload();
} else {
    Set time out (refresh page, 30000);
}
}  (30000);

</body>
</html>
```

output

The page will refresh in 20
seconds do you need more time?
(cancel)   (ok)

for Java:

```
import your.package.name.Payment;
import package.name.Payment
Public class payment client {
    Public static void main (
        Payment service = new payment se
        String response = port, Process Paym
```

Product List. Servlet extends HTTP
servlet { Protected void

Product (' Shirt ', ' Clothing ', 30 ...

Product-1 (' Shirt ' &p) forward requo

response

y
y

output

< Strong < Laptop </ Strong > = $ 1000.

< clothing > shirt : $ 20 available

< Home App > washing machine

To achieve this Setup HTML

Page Add Java Script Automatic

Refresh and confirm Dialog-

HTML and Java Script Code

< ! DOCTYPE html >

< html lang = ' en ' >

< head >

< meta charset : " UTF-8 " >

③

④