

Course Code: CSE3150

Course Title: Front End Full Stack Development

Lab sheet 1 - Module 1

Problem Statement:

Mr. Kiran Student of Presidency University wants to create an attractive web page for Presidency University using HTML and CSS with following specifications.

- Split the web page into two parts using frames, top section 20% and bottom section 80%.
- Place your college logo at the top of the page with menu's (About, Academic, Admission, Facilities, etc). Create hyperlink for all menus.
- Create a web page about the college linked at the bottom of the frame.
- Create a web page about the Academic linked at the bottom of the frame.
- Create a web page about the admission, list out the departments, click any department name that connects to the registration page and apply the position concept in CSS.
- Create a web page about the Facilities, list out the college facilities and display the images using floating concepts in CSS.
- Create a web page about the login page linked at the bottom of the frame.

Solution

Home.html

```
frameset rows="25%, *">
  <frame src="top.html" name="top">
  <frame src="bottom.html" noresize name="bottom" >
</frameset>
</frameset>
```

Top.html

```
<html>
  <head>
    <link rel="stylesheet" href="mystyle.css">
    <style>
      *  {
```

```
margin:0;
padding:0;
box-sizing: border-box;
}
body{
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #151925;
    font-family: sans-serif;
    font-weight: bold;
}
a
{
    position: relative;
    display: inline-block;
    padding: 25px 15px;
    margin: 20px 10px;
    color: #03e9f4;
    text-decoration: none;
    text-transform: uppercase;
    transition: 0.9s;
    /* letter-spacing: 2px; */
    overflow: hidden;
    margin-right: 20px;
}
a:hover
{
    background: #03e9f4;
    color: #050801;
    box-shadow: 0 0 5px #03e9f4, 0 0 25px #03e9f4, 0 0 50px #03e9f4, 0 0 200px #03e9f4;
    -webkit-box-reflect: below 1px linear-gradient(transparent, #0005);
}
a:nth-child(1)
{
    filter: hue-rotate(270deg);
}
a:nth-child(2)
{
    filter: hue-rotate(110deg);
}
```

```
a:nth-child(3)
{
    filter:hue-rotate(200deg);
}
a:nth-child(4)
{
    filter:hue-rotate(270deg);
}
a:nth-child(5)
{
    filter:hue-rotate(110deg);
}
a:nth-child(6)
{
    filter:hue-rotate(186deg);
}
a span
{
    position: absolute;
    display:block;
}
a span:nth-child(1)
{
    top:0;
    left:0;
    width:100%;
    height:2px;
    background: linear-gradient(90deg, transparent,#03e9f4);
    animation: animate1 1s linear infinite;
}
@keyframes animate1
{
    0%{left:-100%;}
    50%,100%{left:100%;}
}
a span:nth-child(2)
{
    top:-100%;
    right:0;
    width:2px;
    height:100%;
    background: linear-gradient(180deg, transparent,#03e9f4);
    animation: animate2 1s linear infinite;
    animation-delay: 0.25s;
```

```

}

@keyframes animate2
{
  0%{top:-100%}
  50%, 100%{top:100%;}
}

a span:nth-child(3)
{
  bottom:0;
  right:0;
  width:100%;
  height:2px;
  background: linear-gradient(270deg, transparent,#03e9f4);
  animation: animate3 1s linear infinite;
  animation-delay: 0.5s;
}

@keyframes animate3
{
  0%{right:-100%}
  50%, 100%{right:100%;}
}

a span:nth-child(4)
{
  bottom:-100%;
  left:0;
  width:2px;
  height:100%;
  background: linear-gradient(360deg, transparent,#03e9f4);
  animation: animate4 1s linear infinite;
  animation-delay: 0.75s;
  /* border-radius:20px; */
}

@keyframes animate4
{
  0%{bottom:-100%}
  50%, 100%{bottom:100%;}
}

</style>
</head>
<body>

  <imgsrc="pulogo.png" alt="PU Logo" style="background-color:white; padding:10px; border-radius: 10px; margin-top: 5px; margin-bottom: 5px; height:100px; border:3px solid lightgrey">

```

```
<a href="about.html" target="bottom">
    Home<span></span>
    <span></span>
    <span></span>
    <span></span>
</a>
<a href="academics.html" target="bottom">
    <span></span>
    <span></span>
    <span></span>
    <span></span>
    Academic
</a>
<a href="admission.html" target="bottom">
    <span></span>
    <span></span>
    <span></span>
    <span></span>
    Admissions
</a>
<a href="facilities.html" target="bottom">
    <span></span>
    <span></span>
    <span></span>
    <span></span>
    Facilities
</a>
<a href="login.html" target="bottom">
    <span></span>
    <span></span>
    <span></span>
    <span></span>
    Login
</a>
<a href="Register.html" target="bottom">
    <span></span>
    <span></span>
    <span></span>
    <span></span>
    Register
</a>
</body>
</html>
```

About.html

```
<html>
  <head>
    <style>
      body
      {
        background-color: rgb(193, 193, 189);
      }
    </style>
  </head>
<body>
  <h1> Over View</h1>
  <p><b>About the University</b></p>
  <imgsrc="pu.jpg">
</body>
</html>
```

Academics.html

```
<html>
<body>

  <h1 style="text-align:center"> WELCOME<br> TO <br>PRESIDENCY UNIVERSITY
</h1>

  </body>
</html>
```

Admission.html

```
<html>
<head>
  <link rel="stylesheet" href="mystyle.css">
  <style>
    body
    {
      background-color: rgba(189, 189, 188, 0.79);
    }
    .static
    {
      position:sticky;
      top:0;
      right:0;
    }
  </style>
</head>
<body>
```

```

display: inline;
float: right;
font-size: 25px;
border-radius: 15px;
padding: 10px;
background-color: aliceblue;
box-shadow: 0 0 25px black;
}
li
{
list-style: none;
margin: 8px 5px;
}
a
{
text-decoration: none;
color: rgb(50, 53, 51);
}
li:hover
{
border: 2px solid black;
display: inline-block;
padding: 8px;
color: azure;
border-radius: 20px;
background-color: rgb(37, 38, 43);
}
h1
{
/* border: 2px solid black; */
display: inline-block;
padding: 5px;
color: darkslateblue;
text-shadow: 2px 1px 2px rgb(120, 127, 131);
}

</style>
</head>
<body>
<div class="static">
<a href="register.html"> For Admission Click Here</a></div>
<h1>Admissions Open </h1>
<ul>
<a href="register.html"><li>School of Engineering</li></a>
<a href="register.html"><li>School of Law</li></a>
<a href="register.html"><li>School of Management</li></a>
<a href="register.html"><li>School of Commerce</li></a>
<a href="register.html"><li>School of Design</li></a>
</ul>
</body>

```

```
</html>
```

Facilities.html

```
<html>
<head>
<title>Facilities</title>
<style>
body
{
    background-color: rgb(211, 215, 211);
}
img
{
    float:right;
    height:200px;
    width:350px;
    border-radius: 20px;
    margin:110px 19px;
}
p
{
    margin:29px 23px;
    font-size: 24px;
    width:750px;
    text-align: justify;
}
h1
{
    font-family:'Courier New', Courier, monospace;
    font-size:30px;
    margin:25px 203px;
    border:2px solid black;
    display: inline-block;
    padding:5px;
    border-radius: 15px;
    background-color: lightgray;
}
#a2
{
    float: left;
    margin:160px 10px;
}
#P2
{
    /* border:2px solid black; */
    margin:10px 370px;
    width:650px;
}
```

```
#h2
{
    margin:10px 10px;
}
</style>
</head>
<body>

    <imgsrc="Library.jpg" alt="Library" class="image" id="a1">
    <h1>Library</h1>
    <p>
        The Presidency University reference and lending library is well-stocked with a vast collection of books, reports, journals and periodicals. The library also provides access to the best of business and management-related digital resources through its subscription to various databases consisting of scholarly and industry-relevant content. Students utilize these services for their classroom-related work and for further research into their areas of interest.
    </p>

    <imgsrc="classroom.jpg" alt="Library" class="image" id="a2">
    <h1 #id="H2">Classrooms</h1>
    <p id="P2">
        The Presidency University reference and lending library is well-stocked with a vast collection of books, reports, journals and periodicals. The library also provides access to the best of business and management-related digital resources through its subscription to various databases consisting of scholarly and industry-relevant content. Students utilize these services for their classroom-related work and for further research into their areas of interest.
    </p>
    <imgsrc="Library.jpg" alt="Library" class="image" id="a1">
    <h1>Library</h1>
    <p>
        The Presidency University reference and lending library is well-stocked with a vast collection of books, reports, journals and periodicals. The library also provides access to the best of business and management-related digital resources through its subscription to various databases consisting of scholarly and industry-relevant content. Students utilize these services for their classroom-related work and for further research into their areas of interest.
    </p>

    <imgsrc="classroom.jpg" alt="Library" class="image" id="a2">
    <h1 #id="H2">Classrooms</h1>
    <p id="P2">
        The Presidency University reference and lending library is well-stocked with a vast collection of books, reports, journals and periodicals. The library also provides access to the best of business and management-related digital resources through its subscription to various databases consisting of scholarly and industry-relevant content. Students utilize these services for their classroom-related work and for further research into their areas of interest.
    </p>
</body>
</html>
```

Login.html

```
<html>
<head>

    <title>Login_Page</title>
</head>
<body>
    <h1 >
        Login Page - // code here
    </h1>
</body>
</html>
```

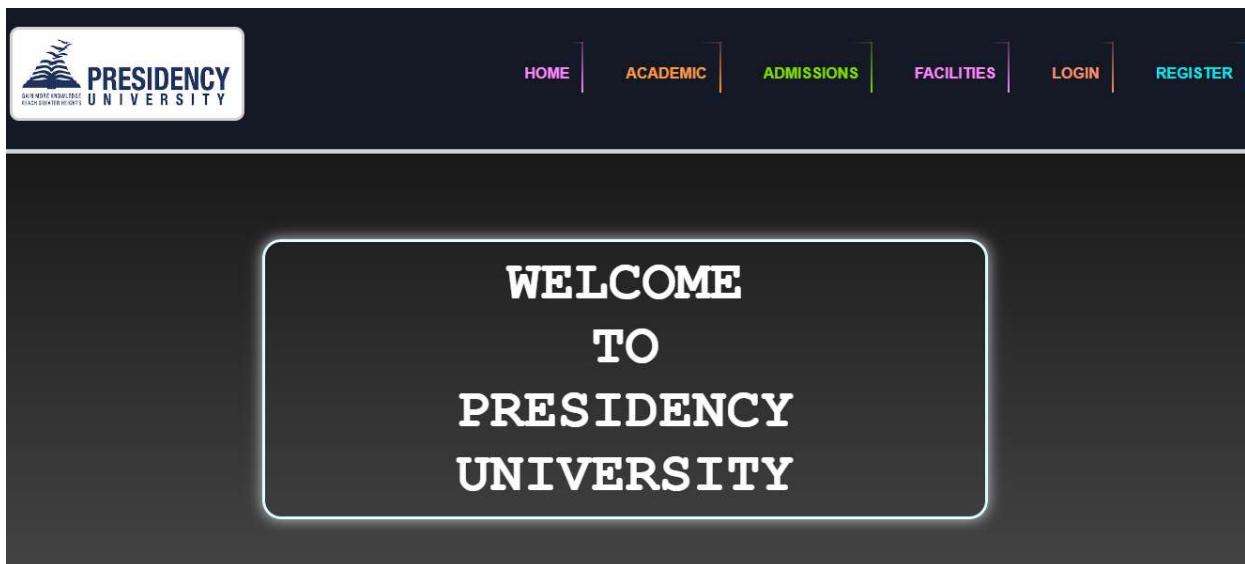
Registration .html

```
<html>
<head>

    <title>Login_Page</title>
</head>
<body>
    <h1 >
        RegistrationPage - // code here
    </h1>
</body>
</html>
```

Output:

Home page:



Admission page

Admissions Open

For Admission Click Here

School of Engineering
School of Law
School of Management
School of Commerce
School of Design
School of Engineering

Facilities Page

library

The Presidency University reference and lending library is well-stocked with a vast collection of books, reports, journals and periodicals. The library also provides access to the best of business and management-related digital resources through its subscription to various databases consisting of scholarly and industry-relevant content. Students utilize these services for their classroom-related work and for further research into their areas of interest.

Login page

HOME ACADEMIC ADMISSIONS FACILITIES LOGIN REGISTER

Log in

Name:

Enter Name:

Password:

Password

Submit Register

Registration page



The logo of Presidency University features a stylized book with wings, symbolizing knowledge and flight. Below the book, the text "PRESIDENCY UNIVERSITY" is written in a bold, sans-serif font, with "PRESIDENCY" in a larger, bolder weight than "UNIVERSITY". A small tagline "SUCH A WORLD PRESIDES" and "WHERE GREAT IDEAS FLY" is visible at the bottom.

HOME ACADEMIC ADMISSIONS FACILITIES LOGIN REGISTER

Student Registration Form

First Name:

Last Name:

Email:

Mobile:

Gender:

Male Female

Date Of Birth:

Address:

Course Code: CSE3150

Course Title: Front End Full Stack Development

Lab sheet 2 - Module 1-HTML Canvas

The purpose for designing a website is to entertain a user of that website. Designer designs the web site using various elements that catches the eyes of the viewers. It is not an easy task to design the website beautifully. It takes a lot of time and effort to design beautiful website. Many elements are considered while designing a website. Among those elements, canvas is also one of them. Therefore, the topic of discussion here is Awesome HTML5 Canvas Examples with Source Code.

Canvas is a graphical element that we can use in our website. The use of canvas is generally done to add up the graphics element in the website. The graphical element means, that can be some kind of effect or animations that we can use in games, movies or anywhere.

HTML5 element <canvas> gives you an easy and powerful way to draw graphics using JavaScript. It can be used to draw graphs, make photo compositions or do simple (and not so simple) animations.

Here is a simple <canvas> element which has only two specific attributes width and height plus all the core HTML5 attributes like id, name and class, etc.

Problem Statement:

The problem statement: To create a canvas drawing application that allows users to draw on the canvas by clicking and dragging the mouse. To achieve this, use HTML5 code that includes a canvas element with an event attribute that listens for mousedown, mousemove, and mouseup events. These events shoud trigger JavaScript functions that draw lines on the canvas based on the user's mouse movements. The canvas element can be styled using CSS to have a black border. Use article, section, attributes to enhance the web page.

Solution

```
<!DOCTYPE html>
<html>
<head>
<title>Canvas Example</title>
<style>
```

```
canvas {
    border: 1px solid black;
}
</style>
</head>
<body>
<header>
<h1>Canvas Example</h1>
<p>Draw on the canvas by clicking and dragging the mouse</p>
</header>
<article>
<h2>Canvas</h2>
<canvas id="myCanvas" width="400" height="400"
onmousedown="startDrawing(event)" onmousemove="drawLine(event)"
onmouseup="stopDrawing(event)"></canvas>
</article>
<script>
var canvas = document.getElementById("myCanvas");
var ctx = canvas.getContext("2d");
var isDrawing = false;
function startDrawing(event) {
    isDrawing = true;
    var x = event.clientX - canvas.offsetLeft;
    var y = event.clientY - canvas.offsetTop;
    ctx.beginPath();
    ctx.moveTo(x, y);
}
function drawLine(event) {
    if (isDrawing) {
        var x = event.clientX - canvas.offsetLeft;
        var y = event.clientY - canvas.offsetTop;
        ctx.lineTo(x, y);
        ctx.stroke();
    }
}
```

```
}
```

```
function stopDrawing(event) {
```

```
isDrawing = false;
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

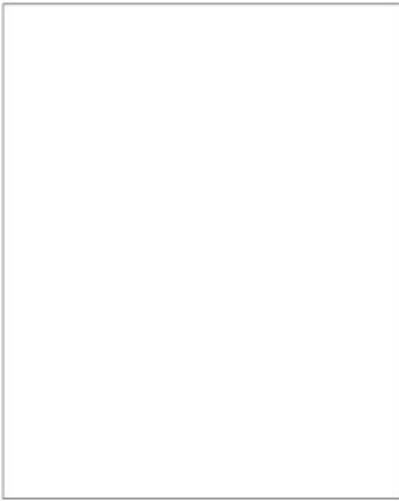
Output:



Canvas Example

Draw on the canvas by clicking and dragging the mouse

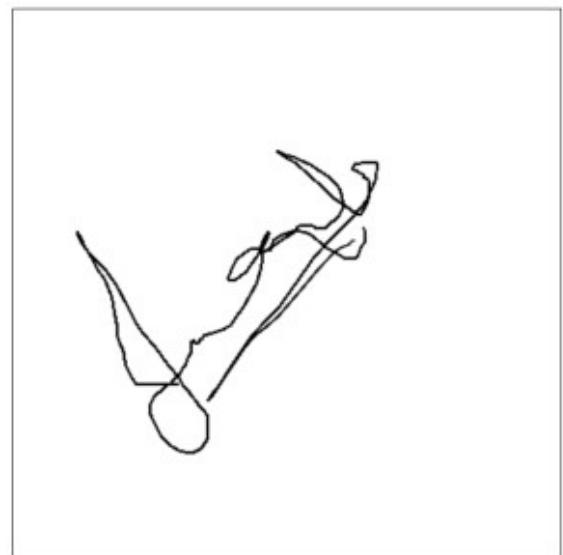
Canvas



Canvas Example

Draw on the canvas by clicking and dragging the mouse

Canvas



Course Code: CSE3150

Course Title: Front End Full Stack Development

Lab sheet 3 - Module 1

Problem Statement:

A company has recently launched a new website and wants to gather information from visitors using a sign-up form. They want to make sure the form is user-friendly, collects the necessary information, and is visually appealing. They also want to ensure the form is accessible on different devices and screens.

To achieve these goals, the company has decided to use Web form 2.0 controls. The form includes inputs for the user's name, date of birth, age, email, and website. The form is designed to be easy to use, with inline validation and conditional logic to show or hide fields based on user input. The company hopes that by using these controls, they will increase the number of sign-ups and improve the overall user experience on their website.

Solution

```
<form>
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required>

  <label for="dob">Date of Birth:</label>
  <input type="date" id="dob" name="dob" required>

  <label for="age">Age:</label>
  <input type="range" id="age" name="age" min="18" max="100">

  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required>

  <label for="website">Website:</label>
```

```
<input type="url" id="website" name="website">  
  
<button type="submit">Sign Up</button>  
</form>
```

Output:

Name:

Date of Birth: mm/dd/yyyy

Age:

Email:

Website:

Course Code: CSE3150

Course Title: Front End Full Stack Development

Lab sheet 4 - Module 1

Problem Statement: You have been tasked with designing a webpage for a new restaurant that will be opening soon. The webpage should showcase the restaurant's ambiance and cuisine using attractive visual elements.

Note: To create an appealing webpage for the restaurant, you can use various CSS3 features such as colors, text styles, transforms, and gradients. Here's a sample webpage design using these features:

Solution:

Code:index.htm

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="style.css">
  <title>My Restaurant</title>
</head>
<body>
  <header>
    <h1>Welcome to My Restaurant</h1>
    <nav>
      <a href="#h1">Home</a>
      <a href="#m1">Menu</a>
      <a href="#c1">Contact Us</a>
    </nav>
  </header>
```

```
<main>

<div id="grad2">

    <h2>About Us</h2></div>

    <p>My Restaurant is a new restaurant opening soon in your city. Our mission is to provide our customers with delicious food and excellent service in a comfortable and friendly environment.</p>

</div>

</main>

<h2 id="m1">MENU</h2>

<section>

    <div class="menu-item">

        <h3>pizza</h3>

        <p>If you're a vegetarian, you'll love Domino's Veg Extravaganza, Indi Tandoori Paneer, and Mexican Green Wave. For non-vegetarians, Non-Veg Supreme, Chicken Fiesta, and Indi Chicken Tikka top the list. Though these are the most loved Domino's pizzas along with the cheesy Margherita pizza, you should check out the Domino's menu to see what you like the most.</p>

    </div>

    <div class="menu-item">

        <h3>Burger</h3>

        <p>Nine Different Types of Burgers to Make</p>

    </div>

</section>
```

Turkey burger. ...

Portobello mushroom burger. ...

Veggie burger. ...

Wild salmon burger. ...

Bean burger. ...

Cheeseburger</p>

</div>

<div class="menu-item">

<h3>pasta</h3>

<p> here are some popular pasta dishes you might consider:

Spaghetti carbonara

Linguine with clam sauce

Fettuccine Alfredo

Penne alla vodka

Lasagna

Bucatini all'Amatriciana

Pappardelle with mushroom ragù

Rigatoni alla Norma

Spaghetti aglio e olio (garlic and oil)</p>

</div>

</section>

```
<section>
<div id="grad1">

<h1 id="c1"> contact us</h1>

</div>
<div id="rot">
<h1> feedback</h1></div>
</section>

<footer>
    <p>&copy; 2023 My Restaurant</p>
</footer>

</body>
</html>
```

Output : style.css

```
/* General styles */
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
}
#rot{
    transform: rotate(20deg);
```

```
}

#grad1 {
    height: 200px;
    background-color: red; /* For browsers that do not support gradients */
    background-image: linear-gradient(blue, yellow);
    background-image: conic-gradient(red, yellow, orange);
}

#grad2 {
    height: 200px;
    background-color: red; /* For browsers that do not support gradients */
    background-image: linear-gradient(black, red);
}

/* Header styles */
header {
    background-color: #333;
    color: white;
    padding: 20px;
}

nav a {
    color: white;
    text-decoration: none;
    margin-right: 20px;
}

nav a:hover {
    color: #ffcc00;
}
```

```
/* Main section styles */

main {
    background-color: #eee;
    padding: 50px;
    text-align: center;
}

main h2 {
    color: #333;
    font-size: 36px;
    margin-bottom: 20px;
}

main p {
    color: #666;
    font-size: 18px;
    line-height: 1.5;
    margin-bottom: 50px;
}

main img {
    max-width: 100%;
    height: auto;
    margin-top: 20px;
    box-shadow: 0px 0px 10px #333;
}

/* Menu section styles */

section {
```

```
display: flex;  
flex-wrap: wrap;  
justify-content: space-around;  
background-color: #fff;  
padding: 50px;  
}  
  
.menu-item {  
flex-basis: 30%;  
margin-bottom: 50px;  
box-shadow: 0px 0px 10px #999;  
padding: 20px;  
text-align: center;  
}  
  
.menu-item img {  
max-width: 100%;  
height: auto;  
margin-bottom: 20px;  
}  
  
.menu-item h3 {  
color: #333;  
font-size: 24px;  
margin-bottom: 10px;  
}  
  
.menu-item p {  
color: #666;  
font-size: 16px;  
line-height: 1.5;
```

```
}
```

```
/* Footer styles */
footer {
    background-color: #333;
    color: white;
    padding: 20px;
    text-align: center;
}
footer p {
    font-size: 14px;
    margin: 0;
}
```

```
/* Gradient styles */
header {
    background: linear-gradient(to bottom, #333 0%, #666 100%);
}
nav a:hover {
    background: linear-gradient(to bottom, #ffcc00 0%, #ff9900 100%);
}
section {
    background: radial-gradient(circle, #fff 0%, #eee 100%);
}
.menu-item:hover {
    background: linear-gradient(to bottom, #eee 0%, #fff 100%);
    transform: translateY(-5px);
```

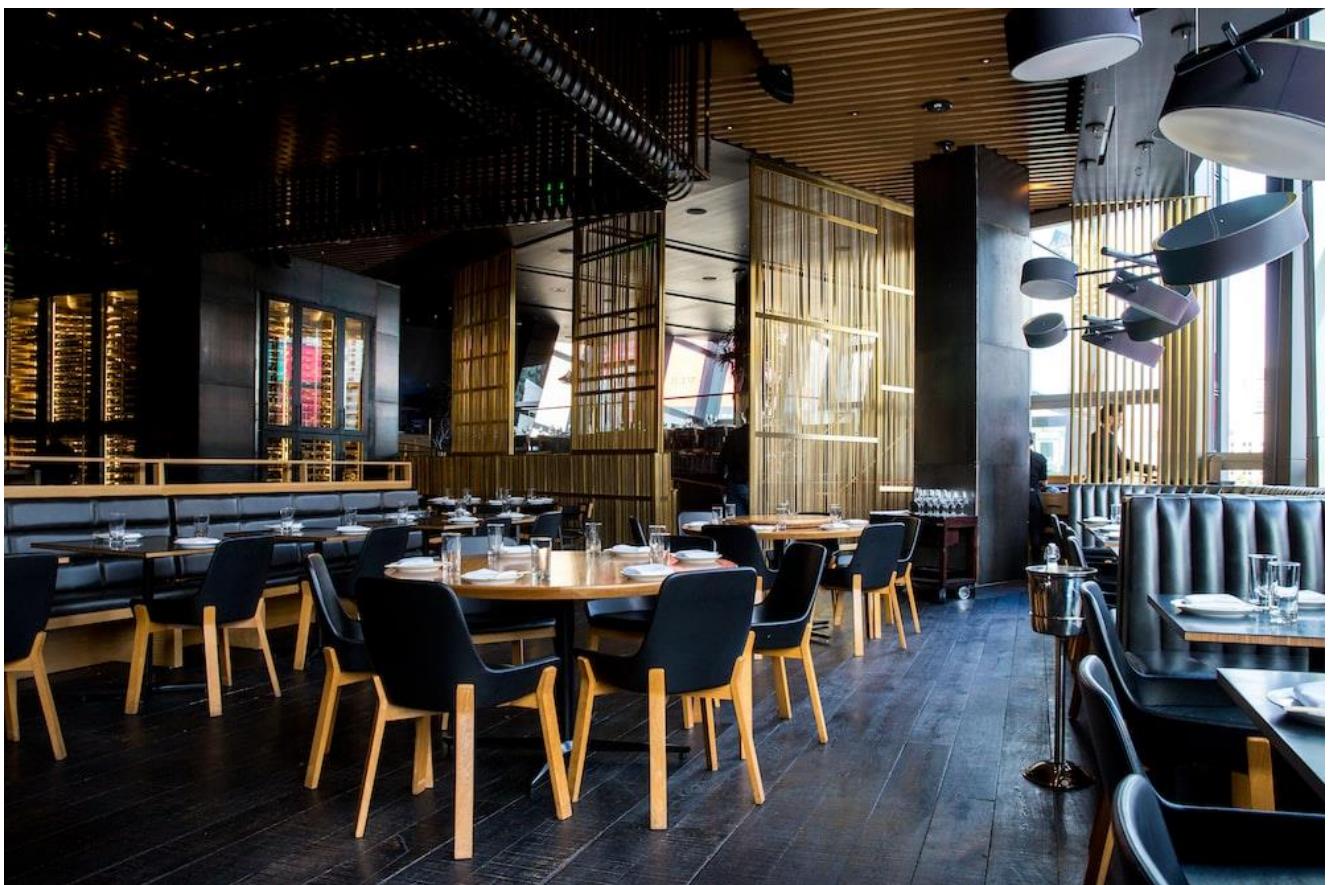
```
}
```

```
footer {
```

```
background: linear-gradient(to bottom, #666 0%, #333 100%);
```

```
}
```

Download :Restaurant image



Output:

A screenshot of a website for "My Restaurant". The header includes the text "Welcome to My Restaurant" and links for Home, Menu, and Contact Us. Below the header is a large redacted area where the restaurant's image would normally be displayed. The word "About Us" is visible above this redacted area. A small note at the bottom of the page states: "My Restaurant is a new restaurant opening soon in your city. Our mission is to provide our customers with delicious food and excellent service in a comfortable and friendly environment." Below this note is a small, partially visible image of the restaurant's interior.