# Chapter 2

# Enhancing Web Pages

## Activity 2.1: Implementing Styles on HTML Elements

### Problem Statement

Steve has developed the home page for ShowOnWheels. Now, he needs to enhance the look and feel of this home page. For this, he needs to apply the following styles:

* The Web page should contain the background image.
* The logo of ShowOnWheels should appear at top of the Web page.
* The links should appear horizontally.
* The links should be displayed in white color at the time of activation.
* The links should appear in pink color when the mouse is moved over them.
* The paragraph text should appear in different font styles.
* The list should appear with filled circles before the list items.

Help Steve to perform the preceding tasks.

**Prerequisite**: You need to use the **ShowOnWheels** file to perform this activity. In addition, you need the **background.gif** file. Ask your faculty to provide you the same.

### Solution

To implement styles on a Web page, you need to perform the following tasks:

1. Create an external style sheet.
2. Link the style sheet in the home.html file.
3. View the home page.

#### Task 1: Creating an External Style Sheet

To create an external style sheet, you need to perform the following steps:

1. Open **Notepad** and type the following code snippet in it:

h3 {

color: darkgreen;

font-family: algerian;

position: absolute;

right: 130px;

top: 320px;

}

aside p {

text-align: center;

background-color: darkgreen;

color: white;

font-size: 15px;

}

The preceding code snippet specifies the styles to be applied on the <H3> and <ASIDE> tags.

1. Add the following code snippet after the font-size: 15px; } line of code:

body {

background-color: #D51165;

background-image: url('background.gif');

background-repeat: repeat-x;

}

details {

color: darkgreen;

font-family: algerian;

font-size: 15px;

}

h1 {

font-family: algerian;

color: darkgreen;

font-size: 20px;

position: absolute;

top: 0px;

right: 50px;

}

The preceding code snippet adds an image to the background. In addition, it applies styles on the <DETAILS> and <H1> tags.

1. Add the following code snippet after the right: 50px; } line of code:

article p{

color: black;

font-size: 15px;

font-family: arial;

width: 550px;

}

h5{

  font-family: arial;

  color: white;

  font-size: 16px;

  float:right;

}

h2 {

color: darkgreen;

font-family: algerian;

position: relative;

top: 0px;

right: 0px;

left: 500px;

}

The preceding code snippet defines the styles to be applied on the <ARTICLE>, <H5>, and <H2> tags.

1. Add the following code snippet after the left: 500px; } line of code:

details ul {

color: #D51165;

font-size: 15px;

}

h4 {

color: darkgreen;

font-family: algerian;

}

video {

position: absolute;

right: 50px;

top: 380px;

}

The preceding code snippet applies styles on the <DETAILS>, <H4>, and <VIDEO> tags by changing their font color, style, and size.

1. Add the following code snippet after the top: 380px; } line of code:

#mainDivContainer H4 {

color: darkgreen;

font-size: 24px;

}

.auto-style1 {

color: #FFFFFF;

font-style: italic;

}

#callus {

height: 80px;

width: 50px;

float:right;

}

The preceding code snippet creates the # mainDivContainer and #callus ID selectors, and the auto-style1 class to apply different styles on the content of the Web page.

1. Add the following code snippet after the float:right; } line of code:

NAV a:hover{

color: pink;

}

NAV A{

text-decoration: none;

color:white;

}

In the preceding code snippet, the :hover selector is used to apply the pink color to the links when the mouse is moved over them.

1. Save the file with the name, **homestylesheet.css** in the **ExternalStylesheet** folder at the location **D:/HTML/ShowOnWheels**.

You need to create the ***ExternalStylesheet*** folder in the ***ShowOnWheels*** folder to complete this activity. In addition, you need to save the ***background.gif*** file that is provided as an input in the ***ExternalStylesheet*** folder.

#### Task 2: Linking the Style Sheet in the home.html File

To link the external style sheet in the **home.html** file, you need to perform the following steps:

1. Open the **home.html** file in Notepad.
2. Add the following code snippet after the </TITLE> tag:

<LINK type="text/css" rel="stylesheet" href="ExternalStylesheet/homestylesheet.css" />

The preceding code snippet links the homestylesheet.css style sheet with the **home.html** file by using the HREF attribute of the <LINK> tag.

1. Save the **home.html** file.

#### Task 3: Viewing the Home Page

To view the home page, you need to perform the following steps:

1. Open Google Chrome.
2. Type **D:\HTML\ShowOnWheels\home.html** in the address bar.
3. Press the **Enter** key. The home page will be displayed, as shown in the following figure.

*The Home Page of ShowOnWheels*

1. Close the Web browser.

## Activity 2.2: Applying Transitions, Animations, and Transformations

### Problem Statement

Steve has applied the styles to enhance the look and feel of the home page of ShowOnWheels. Now, he wants to apply certain animations on the Web page to make the website appealing. For this, Steve decides to change the color of the following text:

HURRY UP!

Help Steve to implement the preceding style.

**Prerequisite**: To perform this activity, you need to use the solution file of Activity 2.1. Ask your faculty to provide you the same.

### Solution

To implement the animation in the home page, you need to perform the following tasks:

1. Create the ID selectors for animation in the homestylesheet.css file.
2. Embed the animation in the home.html file.
3. View the home.html file.

#### Task 1: Creating the ID Selectors for Animation in the homestylesheet.css File

To create the ID selectors, you need to perform the following steps:

1. Open the **homestylesheet.css** file.
2. Add the following code snippet at the end of the **homestylesheet.css** file:

@keyframes multicolor

{

0% {color:darkgreen;}

40% {color:hotpink;}

60%{color:darkgreen;}

80% {color:hotpink;}

}

@-webkit-keyframes multicolor /\* Chrome \*/

{

0% {color:darkgeen;}

40% {color:hotpink;}

60%{color:darkgreen;}

80% {color:hotpink;}

}

.auto-style2{

font-size:40px;

animation:multicolor 5s infinite;

-webkit-animation:multicolor 5s infinite; /\*Chrome \*/

}

The preceding code snippet creates the @keyframes ID selector and auto-style2 class to change the color of the required text.

1. Save the **homestylesheet.css** file.

#### Task 2: Embedding the Animation in the home.html File

To embed the animation in the **home.html** file, you need to perform the following steps:

1. Open the **home.html** file.
2. Replace the Hurry Up! Heavy Discounts on weekends....</H1> line of code with the following code snippet:

<SPAN class="auto-style2"> Hurry Up!</SPAN> Heavy Discounts on weekends....</H1>

The preceding code snippet applies the auto-style2 style to the text, Hurry Up!.

1. Save the **home.html** file.

#### Task 3. Viewing the home.html File

To view the **home.html** file, you need to perform the following steps:

1. Open Google Chrome.
2. Type **D:\HTML\ShowOnWheels\home.html** in the address bar.
3. Press the **Enter** key.

The color of the HURRY UP! text gets changed in the home page, as shown in the following figure.

*The Home Page Showing the HURRY UP! Text in Different Color*

1. Close the Web browser.

# Exercises

### Exercise 1

The home page of the website of the SkyLight University has been created. However, the management does not find the website attractive. Therefore, the development team is informed about the requirement of enhancing the look and feel of the Web page. You have been assigned the task of creating a style sheet that needs to be applied on the Web pages. For this, you have decided to create the following styles in the style sheet:

* The logo should appear at the top of the Web page.
* The links should be displayed at the top-right corner of the home page.
* The text should appear in blue color with the font size, 15 on the home page.
* A background image needs to be applied on the home page.
* The list of colleges should appear in the font size, 15, with the font style, Script MT Bold.
* The heading ‘Our College Campus’ should appear in the font size, 20, with the font style, Script MT Bold.

The home page should appear, as shown in the following figure.

*The Home Page of the SkyLight University*

**Prerequisite**: To perform this exercise, you need to use the solution file created for Exercise 1 of Chapter 1. In addition, you need the **background.gif** file. Ask your faculty to provide you the same.

### Exercise 2

The home page of the FoodHub website has been created. However, the management finds that the look and feel of the Web page is not appealing to the users. Therefore, the organization has decided to apply style sheets to the Web pages. Now, you have been assigned the task to apply style sheets, as per the following guidelines:

* The logo should appear at the top of the page.
* The images should be displayed at the bottom of the page. They should appear as navigation links on the website.
* A background image needs to be applied horizontally along with the background color, #aacf43.
* The list of cuisines should appear in the font size, 15, with the font style, Script MT Bold.
* The heading ‘Come with your family or friends to cater brilliant tastes’ should appear in the font size, 20, with the font style, Script MT Bold.
* The text should appear in green color on the home page.

The home page should appear, as shown in the following figure.

*The Home Page of the FoodHub Website*

**Prerequisite**: To perform this exercise, you need to use the solution file created for Exercise 2 of Chapter 1. In addition, you need the **background.gif** image. Ask your faculty to provide you the same.

### Exercise 3

After applying styles on the home page of the FoodHub website, you need to perform the following transformations on the Web page:

* The links should appear in such a way that they get scaled whenever the user moves the mouse pointer on them.
* The paragraphs should appear in such a way that they get bold whenever the user moves the mouse pointer to them.

The home page should appear, as shown in the following figure.

*The Home Page of the FoodHub Website*

**Prerequisite**: To perform this exercise, you need to use the solution file created for Exercise 2 of Chapter 2. Ask your faculty to provide you the same.

### Exercise 4

### Exercise 5