Debug: It's Pizzalicious

Web Development

Time: 60 mins

Introduction

In this class, the student/s will debug the pizza website. The student should ideally figure out all of the errors within the HTML and CSS files and fix them.

HTML Tags & CSS Properties Re-Introduced

- style   Sets the inline styling for a particular tag.

- text-align

                                                        Aligns the text.

- font-family   Assigns a font family to the text.

- width   Set the width of the element

- color   Sets the color of the text.

- <div></div>   Creates the sections on the webpage.

- <link rel="stylesheet" href="style.css">   Links the CSS to the index.html file.

- background-image: url("")   Adds a background image mentioned within the url.

- display   Displays content in a single line.

- <h2></h2>   Defines a level-two heading, which is used to organize and structure the content on a webpage.

- padding-top   Adds padding to the top of the element.

- background-size: Allows to adjust the background size.

- float   Specify how an element should be positioned, within a page layout. It allows elements to be placed horizontally, allowing text and other elements to wrap around them.

- margin-right   Adds a margin to the right of the element.

- padding-left   Adds padding to the left of the element.

- visibility   Used to control whether an element is visible or hidden on a webpage.

- display   Adds padding to the top of the element.

- align-items   Aligns the items.

- justify-content   Used to align a container's items along the horizontal axis.

Vocabulary

- **Inspect Element:** This a debugging technique commonly used by developers wherein they right-click on an element and select inspect. A window opens up, wherein they can play around with the values and the styling so that they can find the best combination of values.

Learning Objectives

Student/s should be able to:
- ***Explain*** the various steps used to debug the pizza website.
- ***Implement*** debugging using inspect element.

Activities

1. **Class Narrative:** *(2 mins)*
   - Brief the student/s that their school is organizing a techfest and the pizza outlet that is sponsoring the techfest has issues with its website. It is out of order. The student/s must help the company out so that yummy pizzas can reach the tummies of potential customers.

2. **Concept Introduction Activity:** *(5 mins)*
   - Let the student explore the final outcome of the class.
   - Brief the student/s that they will have to debug the webpage to ensure that it is working properly.

3. **Activity 1: Debug the Welcome Section** *(10 mins)*

   Student Activity: *(5 mins)*
   - Guide the student/s to debug the welcome section of the website.
   - Ask student/s to first check whether the CSS file has been linked properly or not to the HTML file.

- Ask the student/s to check for errors in the CSS file.
- Ask the student/s to check for errors in the HTML file.

4. **Activity 2: Debug the Product Section** *(5 mins)*

   Teacher Activity: *(2.5 mins)*
   - Explain the need to use inspect element in the browser.
   - Demonstrate inspect element usage by debugging an image.
   - Explain Debugging:
     Debugging is the process of finding and fixing errors in a computer program. Inspect Element is a tool that allows you to see the behind-the-scenes code of a website, which can help you figure out what's causing an error on the site.

     Here's an example of how you might use Inspect Element to debug a website:
     1. Open a website in a web browser and find the page that has the error.
     2. Right-click on the page and select "Inspect Element" from the menu that appears.
     3. This will open a new window that shows the HTML, CSS, and JavaScript code for the page.
     4. Look through the code and try to find any lines that are highlighted in red. These lines of code are often the ones causing the error.
     5. Once you've found the error, you can try to fix it by editing the code in the Inspect Element window. For example, if there's a typo in a piece of code, you can fix it by correcting the spelling.

     Overall, debugging using Inspect Element can be a useful tool for finding and fixing errors on a website. It's not always easy, but with practice and persistence, you can learn to use it effectively.
   - Note: To use inspect element, the student needs to use the Chrome browser. In case the student does not have it, see whether you can download it. If not, then do the student activity without the inspect element debug.

   Student Activity: *(2.5 mins)*
   - Guide the student/s to debug the different styles in the CSS file using inspect element.

5. **Activity 3: Debug the Customize Pizza and Footer Section** *(15 mins)*

   Student Activity: *(10 mins)*
   - Guide the student/s to debug the footer section of the website.
   - Ask the student/s to check for errors in the CSS file.
   - Ask the student/s to check for errors in the HTML file.
6. **Introduce the Post class project:** *(2 min)*
   - Debug the Pixie Website.
   - Modify the CSS and HTML file to add styling to the erroneous Pixie website.

7. **Test and Summarize the class learnings:** *(5 mins)*
   - Check for understanding through quizzes and summarize learning after respective activities.
   - Summarize the overall class learning towards the end of the class.

8. **Additional activities:**

- **Fix the bug:** Fix the bugs in the code, so that different stylings can be displayed properly as well as new ones can be added.
- **Add Coupon Animation:** animate the coupons present in the footer of the page.

9. **State the Next Class Objective:** *(1 min)*
   - We make this pizza website responsive.

U.S. Standards:

Links Table		
Activity	**Activity Name**	**Link**
Class Presentation	Debugging: It's Pizzalicious!	https://s3-whjr-curriculum-uploads.whjr.online/5b0ad07b-7a85-4a25-a204-73618f8fdcb9.html
Explore Activity	Debugging: It's Pizzalicious!: Explore Activity	https://tynker.me/code/view/635a4f6e4d7b3377c93df9b2/
Student Activity 1	Debug the Welcome Section	https://tynker.com/code/project/63591bcaf1a6900754721032
Teacher Reference: Student Activity 1 Solution	Debug: Welcome Section	https://tynker.com/code/project/635917f184b4134bcf0e08a2
Teacher Activity 2	Debug the Product Section	https://tynker.com/code/project/639327429258db6f807a3102
Teacher Activity 2 Solution	Debug the Product Section	https://tynker.com/code/project/639326e69872e51cb77e87b2
Student Activity 2	Debug the Product Section	https://tynker.com/code/project/635a1374cb7eb91e2a00a2a2
Teacher Reference: Student Activity 2 Solution	Debug the Product Section	https://tynker.com/code/project/63592585232e571fda565562
Student Activity 3	Debug the Customize Pizza and Footer Section	https://tynker.com/code/project/635a183919b54d36a70a0952
Teacher Reference: Student Activity 3 Solution	Debug the Customize Pizza and Footer Section	https://tynker.com/code/project/635a15c7a98ec621d8640192
Student's Additional Activity 1	Fix the bug	https://tynker.com/code/project/6371e94c30360f65046c7cf2
Teacher Reference: Student's Additional Activity 1 Solution	Fix the bug	https://tynker.com/code/project/6371ec070ec5734dad1c2352
Student's Additional Activity 2	Add Coupon Animation	https://tynker.com/code/project/63611504a3a3b1578e16fe63

Teacher Reference: Student's Additional Activity 2 Solution	Add Coupon Animation	https://tynker.com/code/project/63610e449c2735604d3302b2
Post Class Project	Debug the Pixie Website	https://tynker.com/code/project/636e4065b599a5624d5aa922
Teacher Reference: Post Class Project Solution	Debug the Pixie Website	https://tynker.com/code/project/636e2deb3210096a125d4f02