Image Slider and Cards

Web Development

Time: 60 mins

Introduction

In this class, the student/s will learn to create a slideshow of images using CSS. Student/s will also change the layout of the events section into a card display and highlight the card as the mouse hovers over it using a pseudo class selector.

HTML Tags & CSS Properties Introduced

● animation: name duration repeat	Styles the HTML elements which are to be animated. “name” represents the animation name, “duration” specifies the duration in which animation completes one full cycle, “repeat” represents the number of times animation is played.
● @keyframes	Defines an animation sequence. Each keyframe represents how an animated element changes at a given time during the animation sequence.

Vocabulary

- **Slideshow** is a set of images traversed one after another..

Learning Objectives

Student/s should be able to:

- ***Recall*** how to style tags using pseudo id and class selectors.
- ***Explain*** how to create a slideshow of images.
- ***Explain*** how to create and style a card display.
- ***Demonstrate*** how to create an animation of images using the animation property and style the events section as a card display.

Activities

1. **Class Narrative:** *(2 mins)*
    - Brief the student/s that adding visual effects on a website keeps the visitors hooked longer and makes the websites more engaging.

2. **Concept Introduction Activity:** *(5 mins)*
    - Let the student/s play the explore-activity and observe that the banner images keep changing and the upcoming events are organized as cards.

- Using the slides, explain how:
    - to create a slideshow of images
    - to display the upcoming events section as cards
    - to add a hover effect to event cards

3. **Activity 1: Create a Slideshow:** *(12 mins)*

    Teacher Activity: *(6 mins)*
- Highlight to the student/s that the slideshow in the banner section of the school website is a set of images displayed one after the other.
- Explain to the student/s how to create an animation using the animation property of CSS and define an animation sequence using @keyframes.
- Explain how to set the time in percentage of total animation duration at which each keyframe with a specified style is displayed.

    Student Activity: *(6 mins)*
- Guide the student/s to create a slideshow of images for the banner section of the school website.

4. **Activity 2: Style the Events Section:** *(10 mins)*

    Student Activity: *(10 mins)*
- HIghlight to the student/s that each event detail is placed on a card arranged horizontally which makes it more easily readable.
- Guide the student/s to align and style the events section as a card display.

    Probing question: What property can be used to align the text?
    Expected answer: text-align

5. **Activity 3: Style the Event Cards:** *(10 mins)*

    Student Activity: *(10 mins)*
- Guide the student/s to add CSS properties to highlight the card of the event when the mouse hovers over it.

6. **Introduce the Post class project:** *(2 min)*
    - Style the Top Attractions section of the zoo's website to display them with a better layout.

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

8. **Additional activities:**
    - Encourage the student/s to add styling to the event badges placed in event cards.
    - Encourage the student/s to add animation effects for the school highlights section.

9. **State the Next Class Objective:** *(1 min)*
    - We will learn to debug a pizza website.

U.S. Standards:

CSTA:

Links Table		
Activity	**Activity Name**	**Link**
Class Presentation	Image Slider and Cards	https://s3-whjr-curriculum-uploads.whjr.online/a3f46590-715a-4fb2-b283-d324b6ecffb6.html
Explore Activity	Image Slider and Cards: Explore-activity link	https://tynker.com/code/view/6389ccc7887ab367f2234722/
Teacher Activity 1	Create a Slideshow	https://tynker.com/code/project/638461477e03ae375a580942
Teacher Activity 1 Solution	Create a Slideshow - Solution	https://tynker.com/code/project/63845d85bfd1ea7efb22c1f2
Student Activity 1	Create a Slideshow	https://tynker.com/code/project/63846210eed05924cd0aa7b2
Teacher Reference: Student Activity 1 Solution	Create a Slideshow - Solution	https://tynker.com/code/project/638461edfd671304193edc42
Student Activity 2	Style the Events Section	https://tynker.com/code/project/636d2b3e3502b644fe63ff42
Teacher Reference: Student Activity 2 Solution	Style the Events Section - Solution	https://tynker.com/code/project/636d2ac03ca5df13cc045ef2
Student Activity 3	Style the Event Cards	https://tynker.com/code/project/636d2e391ca9c869b6258702
Teacher Reference: Student Activity 3 Solution	Style the Event Cards - Solution	https://tynker.com/code/project/6389ccc7887ab367f2234722
Student's Additional Activity 1	Event Badge	https://tynker.com/code/project/636d3e170d57a40f9d76f632
Teacher Reference: Student's Additional Activity 1 Solution	Event Badge - Solution	https://tynker.com/code/project/636d3d60d0dc413ad8507592
Student's Additional Activity 2	Animate School Highlights	https://tynker.com/code/project/636d3f2e992d07334d15d212
Teacher Reference: Student's Additional Activity 2 Solution	Animate School Highlights - Solution	https://tynker.com/code/project/636d30d71430b914107c0732
Post Class Project	Style the Top Attractions	https://tynker.com/code/project/6361f6558c05eb7912221d82
Teacher Reference: Post Class Project Solution	Style the Top Attractions - Solution	https://tynker.com/code/project/6361724fb2954e2a34523502