Question 2.25

The HTML elements recognized by Microsoft's Internet Explorer browser are documented at [MS-DHTML]. Find and briefly describe three elements recognized by IE that are not contained in the HTML 4.01 Transitional standard

Answer:

1. `<bgsound>`

- **Purpose**: Adds background audio to a web page that starts playing automatically when the page loads.
- **Attributes**:
    - `src`: Specifies the URL of the audio file.
    - `loop`: Specifies the number of times the audio should loop (or `-1` for infinite looping).
- **Example**:

  <bgsound src="background-music.mp3" loop="infinite">
- **Reason for Non-inclusion**: It is a proprietary element with limited use and is better handled by the `<audio>` element in modern HTML5.

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2. `<marquee>`

- **Purpose**: Creates scrolling text or images across the screen.
- **Attributes**:
    - `direction`: Specifies the scroll direction (left, right, up, down).
    - `behavior`: Defines the scroll behavior (scroll, slide, alternate).
    - `loop`: Specifies how many times the marquee will loop.
- **Example**:

  <marquee direction="left" behavior="scroll">This is scrolling text!</marquee>
- **Reason for Non-inclusion**: It is non-standard and considered bad practice for accessibility and usability. Modern alternatives include CSS animations.

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3. `<embed>`

- **Purpose**: Embeds external resources like multimedia content (audio, video, Flash, etc.) directly into a web page.
- **Attributes**:
  - src: Specifies the URL of the embedded resource.
  - type: Defines the MIME type of the resource.
  - width, height: Sets the dimensions of the embedded content.
- **Example**:

  <embed src="video.swf" width="400" height="300" type="application/x-shockwave-flash">
- **Reason for Non-inclusion**: <embed> was proprietary and not standardized in HTML 4.01. It was later included in HTML5 as a valid element with improved specifications.