

Module 5

HTML5

Ques-1: Difference b/w HTML & HTML5?

1. Basic Definition

HTML (HTML4)	HTML5
Older version of markup language	Latest version of HTML
Focused on structure only	Adds structure, multimedia, and APIs

2. Multimedia Support

HTML	HTML5
Needs plugins (like Flash) for video/audio	Has <audio> and <video> tags built-in

3. New Tags in HTML5

HTML5 introduced new semantic tags like:

- <header>, <footer>, <article>, <section>, <nav>, <aside>

HTML does not have these.

4. Graphics and Animation

HTML	HTML5
No support for graphics	Supports <canvas> and <svg> for drawing

5. Form Features

HTML5 added better form controls:

- New input types: email, date, range, color, etc.

- Validation using attributes like required, pattern, etc.

HTML does not support these features directly.

6. Offline Storage

HTML	HTML5
No support for offline storage	Supports localStorage and sessionStorage

Ques-2: What are the additional tags used in HTML5?

1. Semantic Structure Tags

These tags help define the structure of your web page clearly.

- <header> – Top area of a page (like a title or logo section).
- <footer> – Bottom of the page (credits, links, copyright).
- <nav> – Navigation links section (menus).
- <main> – Main content of the page (one per page).
- <section> – Divides content into logical sections.
- <article> – Self-contained content (like a blog post).
- <aside> – Side content (ads, related links).
- <figure> – Used for images, diagrams, etc.
- <figcaption> – Caption for a <figure>.

2. Media Tags

Used for embedding media without extra plugins.

- <video> – To add video.
- <audio> – To add sound/music.
- <source> – Defines multiple media file sources.
- <track> – For subtitles or captions in video/audio.

3. Form Tags and Input Types

New elements and types for better forms.

- `<datalist>` – Provides suggestions (like autocomplete).
 - `<output>` – Shows result of a calculation.
 - `<progress>` – Shows progress bar.
 - `<meter>` – Shows measurement value (like score).
 - New input types:
email, url, tel, date, time, range, search, color, etc.
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4. Interactive Tags

Tags that make content expandable or interactive.

- `<details>` – Collapsible content.
 - `<summary>` – Title for the `<details>` section.
 - `<dialog>` – Used for modal/pop-up dialogs.
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5. Other Useful Tags

- `<mark>` – Highlights text.
- `<time>` – Represents date or time.
- `<template>` – Invisible content for JS use.