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Module 4 - Tables and Navigation Bars In CSS

A table is a structured way to display data in rows and columns, like in Excel or a spreadsheet. In HTML, tables are created using special tags to organize and present tabular information such as marksheets, price lists, schedules, etc.

Tag	Description
<table>	The container that defines the table
<tr>	Table row – defines a row in the table
<th>	Table header cell – bold and centered by default
<td>	Table data cell – normal cell in the table
<thead>	Groups the header content of a table
<tbody>	Groups the body (main content) of the table
<tfoot>	Groups the footer content of a table
colspan	Attribute to make a cell span across multiple columns
rowspan	Attribute to make a cell span across multiple rows

Why do we used CSS Table?

- We use tables in CSS to style HTML tables and make them look better with colors, borders, and spacing.
- CSS helps in aligning table content properly for better readability.
- It can also create table-like layouts using display: table without using actual HTML tables.
- This makes web page design more flexible and visually appealing.

Table Properties

Table properties in CSS are used to style and control the appearance of HTML tables. These properties help you design tables by adjusting borders, spacing, alignment, background, and layout.

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Table Properties

Property	Description
<code>border</code>	Adds a border to the table, rows, or cells.
<code>border-collapse</code>	Merges adjacent borders into one (<code>collapse</code>) or keeps them separate (<code>separate</code>).
<code>width / height</code>	Sets the size of the table or cells.
<code>padding</code>	Adds space inside table cells.
<code>text-align</code>	Aligns text inside cells (e.g., <code>left</code> , <code>center</code> , <code>right</code>).
<code>vertical-align</code>	Aligns cell content vertically (e.g., <code>top</code> , <code>middle</code> , <code>bottom</code>).
<code>background-color</code>	Sets background color of table, rows, or cells.
<code>caption-side</code>	Positions the table caption (<code>top</code> or <code>bottom</code>).
<code>empty-cells</code>	Hides or shows empty table cells (<code>show</code> or <code>hide</code>).
<code>table-layout</code>	Defines the layout algorithm (<code>auto</code> or <code>fixed</code>).

Why do we use Table Properties in CSS?

We use table properties in CSS to:

- Improve the look of tables by adding borders, colors, spacing, etc.
- Control layout and size of tables and cells (like width, height, padding).
- Align text inside cells properly (horizontally and vertically).
- Make tables responsive and readable on all devices.

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Table Internal CSS Code

```
<!DOCTYPE html>
<html>
<head>
<title>Simple CSS Table</title>
<style>
table {
border-collapse: collapse;
width: 50%;
}
th, td {
border: 1px solid black;
padding: 8px;
text-align: center;
}
th {
background-color: lightgray;
}
</style>
</head>
<body>
<h2>Student Table</h2>
<table>
<tr>
<th>Name</th>
<th>Class</th>
<th>Marks</th>
</tr>
<tr>
<td>Ravi</td>
<td>10</td>
<td>85</td>
</tr>
<tr>
<td>Sita</td>
<td>10</td>
<td>90</td>
</tr>
</table>
</body>
</html>
```

Name	Class	Marks
Ravi	10	85
Sita	10	90

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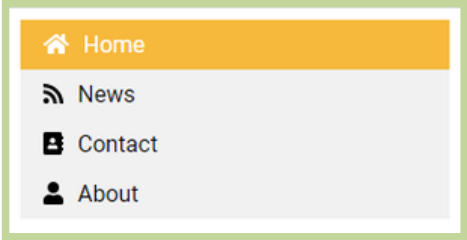
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Navigation Bar

In CSS (Cascading Style Sheets), navigation bars—often called navbars—are horizontal or vertical menus used on websites to help users navigate between different pages or sections. They're usually built with HTML and styled with CSS to control their appearance and behavior.

Vertical Navbar

A vertical navbar is a navigation menu where the links are stacked top to bottom (vertically), usually aligned on the left or right side of a webpage. It's commonly used in dashboards, side menus, and admin panels.



Horizontal Navbar

A horizontal navbar displays the menu links side by side (left to right) across the top of the webpage. It usually appears at the top of the screen and helps users navigate between different sections or pages.



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Properties of Navbar In CSS

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Property	Description	Example Value
background-color	Sets the background color of the navbar	#333, white, blue
height	Defines the height of the navbar	60px, auto
width	Defines the width (usually full width)	100%, 1200px
display	Layout type; flex used for horizontal layout	flex, block
justify-content	Aligns child items horizontally	space-between, center
align-items	Aligns child items vertically	center, flex-start
padding	Spacing inside the navbar	10px 20px
margin	Spacing outside the navbar	0 auto, 20px
position	Defines how the navbar is positioned on the page	fixed, relative, sticky
top, left, right	Positional offsets (used with position)	top: 0, left: 0
z-index	Controls stacking order (visibility above others)	1000, 10
box-shadow	Adds shadow under navbar for depth effect	0 2px 5px rgba(0,0,0,0.1)
color	Sets the text color of links inside navbar	white, black
text-decoration	Removes underline from links	none
font-size	Sets the font size of text in navbar	16px, 1rem
font-weight	Controls the boldness of text	bold, 500, normal
border-radius	Rounds the corners of elements (like links)	4px, 0
transition	Smooth animation effect on hover	all 0.3s ease
hover (pseudo-class)	Changes style when mouse hovers	background-color: #444
.active (class)	Highlights the current/active page link	background-color: #04AA6D



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Difference Between Vertical and Horizontal Navbar

Aspect	Vertical Navbar	Horizontal Navbar
Layout Direction	Top to bottom (column)	Left to right (row)
Typical Position	Left or right side	Top of the page
Space Used	Vertical space	Horizontal space
Display CSS	<code>flex-direction: column</code>	<code>flex-direction: row</code>
Usage	Many links, sidebar menus	Few links, top menus
Responsive	Often collapses to slide menu	Often becomes hamburger menu

Vertical Navbar

```

<!DOCTYPE html>
<html>
<head>
<style>
ul {
list-style-type: none;
margin: 0;
padding: 0;
width: 60px;
}
li a {
display: block;
background-color: #dddddd;
}
</style>
</head>
<body>
<ul>
<li><a
href="#home">Home</a></li>
<li><a href="#news">News</a></li>
<li><a
href="#contact">Contact</a></li>
<li><a href="#about">About</a></li>

```

[Home](#)
[News](#)
[Contact](#)
[About](#)

A background color is added to the links to show the link area.
 Notice that the whole link area is clickable, not just the text.

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```
</ul>
<p>A background color is added to the links to show the link area.</p>
<p>Notice that the whole link area is clickable, not just the text.</p>
</body>
</html>
```



Horizontal Navbar

```
<!DOCTYPE html>
<html>
<head>
<style>
ul {
list-style-type:
none;
margin: 0;
padding: 0;
overflow: hidden;
}
li {
float: left;
}
li a {
display: block;
padding: 8px;
background-color: #dddddd;
}
</style>
</head>
<body>
<ul>
<li><a href="#home">Home</a></li>
<li><a href="#news">News</a></li>
<li><a href="#contact">Contact</a></li>
<li><a href="#about">About</a></li>
</ul>
<p><b>Note:</b> If a !DOCTYPE is not specified, floating items can produce unexpected results.</p>
<p>A background color is added to the links to show the link area. The whole link area is clickable, not just the text.</p>
<p><b>Note:</b> overflow:hidden is added to the ul element to prevent li elements from going outside of the list.</p>
</body>
</html>
```

[Home](#) [News](#) [Contact](#) [About](#)

Note: If a !DOCTYPE is not specified, floating items can produce unexpected results.

A background color is added to the links to show the link area. The whole link area is clickable, not just the text.

Note: overflow:hidden is added to the ul element to prevent li elements from going outside of the list.



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Assignment

Header 1	Header 2	Header 3	Header 4
Name 1	E-mail	Phone	Status
Name 2	E-mail	Phone	Status
Name 3	E-mail	Phone	Status
Name 4	E-mail	Phone	Status

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Create a table using HTML.

Style the table using CSS.

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Use CSS table properties such as:

- border-collapse
- padding
- border
- text-align
- background-color
- hover effects
- Make the table look nice and readable.

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Possibly include:

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- Header row styling
- Alternating row colors
- Hover effect on rows

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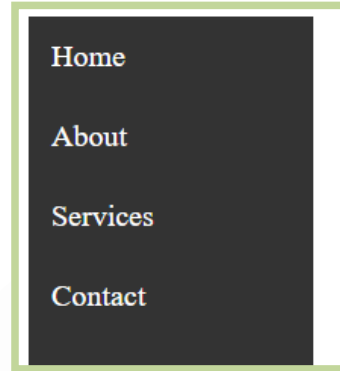
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Assignment

Create a vertical navigation bar (navbar) on the left side of the webpage.

The navbar should:

- Have a fixed width of 150 pixels.
- Take the full height of the browser window.
- Have a dark background color (#333).
- Add four navigation links inside the navbar:
 - Home
 - About
 - Services
 - Contact
- Style the links so that:
 - The text color is white.
 - The links stack vertically.
 - Each link has padding of 12 pixels.
 - Links have no underline.



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