

Module 3 – Frontend – CSS and CSS3

CSS Grid

1. Explain CSS Grid and how it differs from Flexbox. When would you use Grid over Flexbox?

- **CSS Grid:** A two-dimensional layout system in CSS that lets you create layouts both **horizontally** and **vertically**.
- **Flexbox:** A one-dimensional layout system, used for aligning items in a single row or column.
- **When to use Grid:** Use Grid for **complex page layouts** (rows + columns). Use Flexbox for **simple alignment** of items in a single direction.

2. Describe the grid-template-columns, grid-template-rows, and grid-gap properties:

grid-template-columns: Defines the number and width of columns in the grid.

Example:

CSS

```
grid-template-columns: 200px 1fr 2fr; /* 3 columns with specific widths */
```

grid-template-rows: Defines the number and height of rows in the grid.

Example:

CSS

```
grid-template-rows: 100px auto 50px; /* 3 rows with specific heights */
```

grid-gap: Adds spacing between rows and columns.

Example:

CSS

```
grid-gap: 20px; /* Adds a 20px gap between grid items */
```