

**National University of Sciences & Technology (NUST),  
Baluchistan Campus (NBC), Department of Computer Science**



**CS – 344: WEB ENGINEERING**

**Lab - 04**

**Submitted By**

Mustafa Ali | 311297

**Submitted To**

Mr. Bakht Muhammad

Lab Engineer,

Department of Computer Science

**8<sup>th</sup> Semester**

**BACHLORS OF COMPUTER SCIENCE  
(2019 - 2023)**

## TASKS

1. What is 12 Column Grid explain with example?

2. Make a responsive resume web page with HTML and CSS only and upload on GitHub Pages

No, Screenshot required just paste your GitHub page link here.

## What is 12 Column Grid explain with example?

### Answer:

A layout system with 12 columns is frequently used in graphic design and web development to separate content into dependable and simple-to-manage portions. In order to organize and arrange material, the approach entails splitting the width of a page or other container into 12 equal sections.

A design is held together by an unnoticeable design framework called the 12 column grid. Designers can use it to link components together to establish visual hierarchy and alignment. The grid divides the screen into 12 distinct columns using a series of invisible (or occasionally visible) vertical lines. Then, various components can be added to the various sections, some taking up more columns than others, to produce a complete design.

### For Example:

|    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  |    |    |    |    |    |    |    |    |    |    |    |
| 2  |    |    |    |    |    | 3  |    |    |    |    |    |
| 4  |    |    |    | 5  |    |    |    | 6  |    |    |    |
| 7  |    |    | 8  |    |    | 9  |    |    | 10 |    |    |
| 11 |    | 12 |    | 13 |    | 14 |    | 15 |    | 16 |    |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |

### Code:

```
<!doctype html>
<title>Example</title>
<style>
.grid {
  display: grid;
  grid-template-rows: repeat(6, 1fr);
  grid-template-columns: repeat(12, 1fr);
  grid-gap: 10px;
```

```
}  
.box {  
  color: white;  
  font-size: 4vw;  
  padding: 10px;  
  background: gold;  
  text-align: center;  
}  
.box:nth-child(1) {  
  grid-column: span 12;  
}  
.box:nth-child(2),  
.box:nth-child(3) {  
  grid-column: span 6;  
}  
.box:nth-child(4),  
.box:nth-child(5),  
.box:nth-child(6) {  
  grid-column: span 4;  
}  
.box:nth-child(7),  
.box:nth-child(8),  
.box:nth-child(9),  
.box:nth-child(10) {  
  grid-column: span 3;  
}  
.box:nth-child(11),  
.box:nth-child(12),  
.box:nth-child(13),  
.box:nth-child(14),
```

```
.box:nth-child(15),
.box:nth-child(16) {
  grid-column: span 2;
}
</style>
<main class="grid">
  <div class="box">1</div>
  <div class="box">2</div>
  <div class="box">3</div>
  <div class="box">4</div>
  <div class="box">5</div>
  <div class="box">6</div>
  <div class="box">7</div>
  <div class="box">8</div>
  <div class="box">9</div>
  <div class="box">10</div>
  <div class="box">11</div>
  <div class="box">12</div>
  <div class="box">13</div>
  <div class="box">14</div>
  <div class="box">15</div>
  <div class="box">16</div>
  <div class="box">17</div>
  <div class="box">18</div>
  <div class="box">19</div>
  <div class="box">20</div>
  <div class="box">21</div>
  <div class="box">22</div>
  <div class="box">23</div>
  <div class="box">24</div>
```

<div class="box">25</div>

<div class="box">26</div>

<div class="box">27</div>

<div class="box">28</div>

</main>

## TASK – 02: WEB SCREENSHOT:



### MUSTAFA ALI TAYABANI

---

#### Contact Details

 +92 347 2847610

 mustafa.ali.tayabani@gmail.com

 House No B-163, B-2, Gulshan-e-Maymar, Karachi

#### Education

##### UNIVERSITY

**National University of Science and Technology, Quetta**

07/2023

- Bachelor of Computer Science
- CGPA: 3.69
- Semester GPA: 3.97

##### COLLEGE

**The Foundation School, Karachi**

07/2023

- Computer Science
- 05/2018
- Grade: Aa+

##### SCHOOL

**Govt Degree Science And Commerce College, Karachi**

07/2023

- Pre-Engineering
- 05/2019
- Grade: B+

#### Certificates

- Python for Everyone | Coursera
- Java for Android | Coursera
- Foundations of User Experience (UX) Design | Coursera

#### Skills

- Languages (C++, Java, Python)
- Adobe XD
- Adobe Photoshop
- Adobe Illustrator
- Canva Pro
- WordPress
- HTML, CSS
- Webflow
- Operating System (Windows, IOS, Linux)

### SUMMARY

Highly creative and multitasking Graphic Designer with extensive experience in multimedia, marketing, and print design. Exceptional collaborative and interpersonal skills; dynamic team player with well-developed written and verbal communication abilities. Highly skilled in client and vendor relations and negotiations; talented at building and maintaining "win-win" partnerships. Passionate and inventive creator of innovative marketing strategies and campaigns; accustomed to performing in deadline-driven environments with an emphasis on working within budget requirements.

### LINKS

<https://www.linkedin.com/in/mustafa-ali-tayabani-4229451b4/>  
[www.mustafaali.tayabani.com](http://www.mustafaali.tayabani.com)

### EXPERIENCE

#### Graphic Designer

##### Besthive - Karachi, Sindh

11/2021 - Present

- Developed numerous marketing programs (logos, brochures, newsletters, infographics, and advertisements) and guaranteed that they exceeded the expectations of our clients.
- Knowledge of design, typography, and production of printing and web products.
- Supervise the assessment of all graphic materials in order to ensure the quality and accuracy of the design.
- Recommended and consulted with clients on the most appropriate graphic design options based on their overall marketing goals.

#### Front End Developer | UI/UX Designer

##### BrinySoft - Islamabad, Federal

03/2021 - 04/2022

- I design and build clever websites, they're fully responsive and carefully considered. Through research and design, I can get the most out of their website.
- I am working on BrinySoft & BrinyToons Website Designing and Development on HTML, CSS, and JAVASCRIPT & WordPress.
- Link - <https://www.brinysoft.com/> & <https://www.brinytoons.com/>
- The task of creating, and designing posters for their social media management.

#### Graphic Designer

##### KodevGlobal - Karachi, Sindh

06/2021 - 10/2021

- The task of creating, designing, developing, and implementation of the graphic, layout, and production material.
- Develop design based on clients' requirements.
- Work in tandem with clients on designs based on requirements, modifications, and feedback.
- Collaborate with the team for successful completion, especially in the case of complex projects.
- Ensure the final project is proofread for accuracy and quality.

#### Graphic Designer & Social Media Manager

##### Moten Developers & Realtors - Karachi, Sindh

10/2021 - Present

- Responsibilities for implementing campaigns through websites, email marketing, social media, and online advertising.
- Task with creating, designing posters for their social media management

#### Fiver, Upwork

##### Freelance Graphic Designer | WordPress Developer - Karachi, Sindh

01/2021 - Present

- Created designs, concepts and sample layouts, based on knowledge of layout and esthetic design concepts.
- Prepared illustrations and rough sketches of material, discussing them with clients and making necessary changes.
- Developed Graphics and Layouts for product illustrations, logos, and websites mirroring company brand style.
- Produced both eCommerce and non-eCommerce creative app layouts, prototypes, and content for the use of clients.
- Utilized After Effects and other computer proficiency in making motion graphics animations for video production.

#### Graphic Designer

##### Besthive - Karachi, Sindh

11/2021 - Present

- Developed numerous marketing programs (logos, brochures, newsletters, infographics, and advertisements) and guaranteed that they exceeded the expectations of our clients.
- Knowledge of design, typography, and production of printing and web products.
- Supervise the assessment of all graphic materials in order to ensure the quality and accuracy of the design.
- Recommended and consulted with clients on the most appropriate graphic design options based on their overall marketing goals.

### **Fill in the blanks**

1. Media queries allow developers to apply *styles/CSS rules* based on the device or screen properties.
2. The **Box Model** in CSS defines the properties of an HTML element's content, padding, border, and margin.
3. The **direct child selector** (">") CSS selector is used to target only the immediate child element of a parent element.
4. The **nth-child selector** CSS selector is used to select HTML elements based on their index number in relation to their siblings.
5. Using media queries, it is possible to apply *different styles* to the same HTML element based on the size of the device screen.

### **Reference:**

1. <https://artversion.com/blog/the-effect-of-the-12-column-grid-system-on-responsive-development/#:~:text=The%2012%20column%20grid%20is,screen%20into%2012%20separate%20columns.>
2. [https://www.quackit.com/css/grid/examples/css\\_12\\_column\\_grid\\_examples.cfm](https://www.quackit.com/css/grid/examples/css_12_column_grid_examples.cfm)

----- **THE END** -----