

## **Tutorial No. 05**

### **Title: Flexible Content Layout and Responsive Webpage**

**Batch:A2 Roll No.:16010421063 Tutorial No.:5 Aim:** To design flexible content

layout and responsive web pages.

**Resources needed:** Notepad++, Web Browser

#### **Theory:**

**Responsive Web Design-**The goal of a responsive layout is to function well on every single device. Regardless of screen size or resolution, your responsive designs should always be usable.

Focus on usability for every single aspect of your site. This may be easier starting with mobile-first because you're designing for limited features, then moving up to desktop which supports a wider screen size.

**Flex Layout Model-** CSS3 flexible Box, or flexbox is a new layout model for creating the more flexible user interface design with multiple rows and columns without using the percentage or fixed length values. The CSS3 flex layout model provides a simple and powerful mechanism for handling the distributing of space and alignment of content automatically through stylesheet without interfering with the actual markup.

## Activity

Add grid layout, flex container and responsive property to the webpages

## Results: (Program printout with output)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible"
content="IE=edge" />
    <meta name="viewport"
content="width=device-width, initial-scale=1.0" />
    <title>3-Blogs</title>
    <link href="style.css" rel="stylesheet" />
  </head>
  <body>
    <nav>
      <div>3-Blogs</div>
    </nav>
    <section class="SplashScreen">
      <div>The future of Blogging with
Blockchain</div>
      <!-- <div> -->
      
      <!-- </div> -->
    </section>
    <section class="RecentPost">
      <div class="RecentPost_textContainer">
        <div>Recent Posts</div>
        <div><a href="#">See All</a></div>
      </div>

      <div class="RecentPost_BlogContainer">
        <div class="BlogItem BlogItem--1">
          

          <h1>Blog Name</h1>
          <h3>Arya Nair</h3>
          <h5>Lorem ipsum dolor sit amet,
consectetur adipiscing elit,</h5>
          </div>
          <div class="BlogItem BlogItem--1">
```

```

        <h1>Blog Name</h1>
        <h3>Arya Nair</h3>
        <h5>Lorem ipsum dolor sit amet,
consectetur adipiscing elit,</h5>
    </div>
    <div class="BlogItem BlogItem--1">
        

        <h1>Blog Name</h1>
        <h3>Arya Nair</h3>
        <h5>Lorem ipsum dolor sit amet,
consectetur adipiscing elit,</h5>
    </div>
</div>
</section>
<section class="TopPosts">
    <div class="RecentPost_textContainer">
        <div>Top Posts</div>
        <div><a href="#">See All</a></div>
    </div>
    <div class="TopPost_BlogContainer">
        <div class="BlogItem BlogItem--2">
            

            <h1>Blog Name</h1>
            <h3>Arya Nair</h3>
            <h5>Lorem ipsum dolor sit amet,
consectetur adipiscing elit,</h5>
        </div>
        <div class="BlogItem BlogItem--2">
            

            <h1>Blog Name</h1>
            <h3>Arya Nair</h3>
            <h5>Lorem ipsum dolor sit amet,
consectetur adipiscing elit,</h5>
        </div>
        <div class="BlogItem BlogItem--2">
            

        <h1>Blog Name</h1>
        <h3>Arya Nair</h3>
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    </div>
    <div class="BlogItem BlogItem--2">
        

        <h1>Blog Name</h1>
        <h3>Arya Nair</h3>
        <h5>Lorem ipsum dolor sit amet,
consectetur adipiscing elit,</h5>
    </div>
</div>
</section>
</body>
</html>

```

```

@import
url("https://fonts.googleapis.com/css2?family=Poppins:w
ght@700&display=swap");

* {
    margin: 0;
    padding: 0;
    color: #16171a;

    box-sizing: border-box;
    font-family: "Poppins", sans-serif;
}

body {
    background-color: #d7e2ff;
    overflow-x: hidden;
}

nav {
    width: 100%;
    display: flex;

```

```
    justify-content: space-between;
    align-items: center;
    padding: 2vh 2vw;
}

nav > div {
    font-size: 3rem;
}

.SplashScreen {
    display: flex;
    justify-content: space-between;
    align-items: center;
    margin: 5vw;
}

.SplashScreen > div {
    font-size: 4rem;
    width: 50%;
}

.RecentPost {
    display: flex;
    flex-direction: column;
    background-color: #fde3d2;
    padding: 2vh 2vw;
    width: 100vw;
}

.RecentPost_textContainer {
    display: flex;
    justify-content: space-between;
    align-items: center;
    margin: 5vh 0;
}

.RecentPost_textContainer > div:first-child {
    font-size: 3rem;
}

.BlogItem {
    padding: 2rem;
    background-color: #f8fbfe;
    display: grid;
    grid-template-areas:
        "image auto"
        "image auto"
        "image auto";
    gap: 1rem;
    border-radius: 32px;
```

```

}

.BlogItem > img {
  border-radius: 16px;
  grid-area: image;
}

.BlogItem > h1 {
  font-size: 1.5rem;
}

.BlogItem > h3 {
  font-size: 1.1rem;
  opacity: 0.4;
}

.BlogItem--1 {
  width: fit-content;
}

.RecentPost_BlogContainer {
  display: flex;
  gap: 1rem;
}

.TopPosts {
  display: flex;
  flex-direction: column;
  background-color: #e8e8ff;
  padding: 2vh 2vw;
}

.TopPost_BlogContainer {
  display: grid;
  grid-template-areas: "auto auto";
  gap: 1rem;
}

.BlogItem--2 {
  width: 100%;
}

@media screen and (max-width: 991px) {
  .SplashScreen {
    flex-direction: column-reverse;
  }

  .SplashScreen > div {
    font-size: 2rem;
    text-align: center;
  }
}

```

```

.SplashScreen > img {
    width: 100%;
}
nav {
    justify-content: center;
}
.RecentPost_textContainer,
.RecentPost_BlogContainer {
    flex-direction: column;
}
.RecentPost_BlogContainer > div > img,
.TopPost_BlogContainer > div > img {
    width: 25%;
}
.TopPost_BlogContainer {
    grid-template-areas: "auto";
}
.BlogItem {
    grid-template-areas:
        "image"
        "auto"
        "auto"
        "auto";
    place-items: center;
}
}

```

### 3-Blogs

## The future of Blogging with Blockchain



## Recent Posts

[See All](#)



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lorem ipsum dolor sit amet, consectetur adipiscing elit.



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## Top Posts

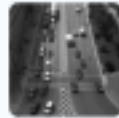
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**Outcomes:**

CO 2 Create Web pages using HTML 5 and CSS.

KJSCE/IT/SYBTEch/SEM  
IV/WP 1/2022-23

**Conclusion: (Conclusion to be based on the outcomes achieved)**

**Used grid flexbox and media queries to form a responsive web page which can be scaled to majority of the devices**

**Grade: AA / AB / BB / BC / CC / CD /DD**

Signature of faculty in-charge with date

**References:**

**Books/ Journals/ Websites:**

- “Web technologies: Black Book”, Dreamtech Publications
- <http://www.w3schools.com>
- <https://css-tricks.com/snippets/css/complete-guide-grid/>
- <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>