Assignment 1

Flexbox Assignment

- 1. Describe the main differences between the CSS Flexbox layout and the CSS Grid layout model. When would you choose to use one over the other?

 Ans: Introduction to Differences:
 - Flexbox is designed for one-dimensional layouts. It works either in a row or a column. It uses the concept of the main axis and cross axis.
 Items can be aligned along these axes.
 - Flexbox adjusts its items according to the content within them. It is ideal for situations where you want to distribute space among items in a container, even if their size is unknown or dynamic.
 - It provides powerful alignment capabilities such as align-items, justify-content, and align-self. It is great or small-scale layouts, such as navigation bars, footers, or components within a larger design.
 - Grid is designed for two-dimensional layouts. It works both in rows and columns, allows you to control both dimensions simultaneously.
 - Grid allows for the creation of complex layouts, independent of the content size. It provides a systematic approach to design a webpage.
 - Items can be placed precisely in a grid cell or span multiple cells with properties like grid-column and grid-row.
- 2. Explain the role of following key properties in the Flexbox layout model:
 - a) <u>justify-content</u>: This property is used to align and distribute elements the flex items across the main axis. It has the following values: flex-start, flex-end, center, space-between, space-around and space-evenly.
 - b) <u>align-items</u>: This property is used to align and distribute elements the flex items across the cross axis. It has the following values: flex-start, flex-end, center, baseline and stretch.
 - c) gap: This property is used to set the gap between the flex items.
 - d) <u>flex-direction</u>: Each flex container has a direction attached to it. The items inside the container are arranged in that direction only. The default direction is row. We can change it to column, column-reverse, row-reverse.
 - e) flex-wrap: This property allows flex items to wrap in multiple lines.

3. Write a code to center a div using flexbox.

```
Ans: HTML Code:
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="style.css">
<title>Flexbox Assignment</title>
</head>
<body>
  <h1 id="main-heading">Code to center a div using flexbox</h1>
  <div class="container">
    <div class="centered-div">Centered Div</div>
  </div>
</body>
</html>
CSS Code:
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Times New Roman', Times, serif;
}
#main-heading {
  text-align: center;
  margin-top: 10px;
  color: red;
}
.container {
```

```
display: flex;
         justify-content: center;
         align-items: center;
         height: 80vh;
       }
       .centered-div {
         width: 250px;
         height: 250px;
         background-color: rgb(44, 214, 44);
         text-align: center;
         line-height: 250px;
         font-weight: bold;
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                                 Code to center a div using flexbox
                                               Centered Div

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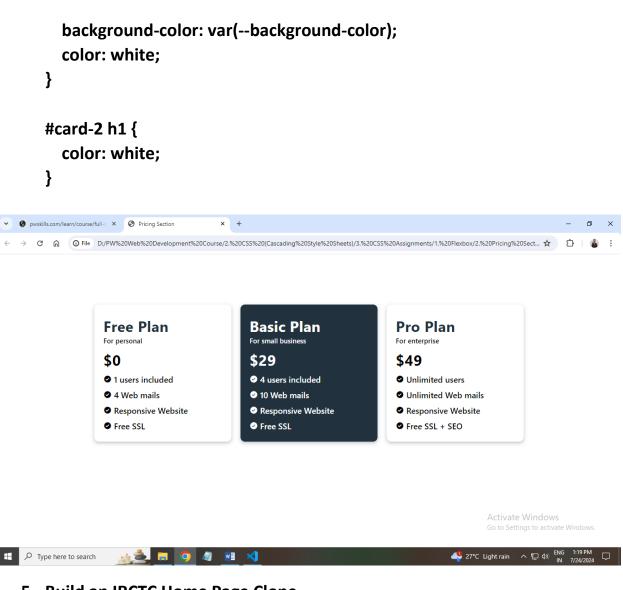
4. A client of yours wants to add your pricing section on their website to showcase their newly introduced premium plans.

Ans: <u>HTML Code</u>: <!DOCTYPE html>

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css'>
<link rel="stylesheet" href="style.css">
<title>Pricing Section</title>
</head>
<body>
 <div id="pricing-section">
   <div class="card">
     <h1>Free Plan</h1>
     For personal
     <h2 class="price">$0</h2>
     <i class='bx bxs-check-circle'></i> 1 users included
     <i class='bx bxs-check-circle'></i> 4 Web mails
     <i class='bx bxs-check-circle'></i> Responsive Website
     <i class='bx bxs-check-circle'></i> Free SSL
   </div>
   <div class="card" id="card-2">
     <h1>Basic Plan</h1>
     For small business
     <h2 class="price">$29</h2>
     <i class='bx bxs-check-circle'></i> 4 users included
     <i class='bx bxs-check-circle'></i> 10 Web mails
     <i class='bx bxs-check-circle'></i> Responsive Website
     <i class='bx bxs-check-circle'></i> Free SSL
   </div>
   <div class="card">
     <h1>Pro Plan</h1>
     For enterprise
     <h2 class="price">$49</h2>
     <i class='bx bxs-check-circle'></i> Unlimited users
```

```
<i class='bx bxs-check-circle'></i> Unlimited Web mails
      <i class='bx bxs-check-circle'></i> Responsive Website
      <i class='bx bxs-check-circle'></i> Free SSL + SEO
    </div>
  </div>
</body>
</html>
CSS Code:
:root {
  --text-color: #22313f;
  --background-color: #22313f;
}
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
}
#pricing-section {
  display: flex;
  justify-content: center;
  align-items: center;
  margin-top: 100px;
  flex-wrap: wrap;
}
.card {
  margin: 10px;
  padding: 10px;
  width: 300px;
  height: 300px;
```

```
gap: 10px;
  border-radius: 10px;
  box-shadow: rgba(0, 0, 0, 0.24) 0px 3px 8px;
}
h1 {
  letter-spacing: 0.5px;
  color: var(--text-color);
}
h1,
h2 {
  margin-left: 10px;
  margin-top: 15px;
}
.price {
  margin-top: 10px;
  font-size: 32px;
  letter-spacing: 1px;
}
.info-text {
  margin-top: 1px;
  font-size: 15px;
}
p {
  margin-left: 10px;
  margin-top: 10px;
  font-weight: 500;
  font-size: 18px;
}
#card-2 {
```



5. Build an IRCTC Home Page Clone.

Ans: <u>HTML Code</u>:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css'>
link rel="stylesheet" href="style.css">
<title>IRCTC</title>
</head>
```

```
<body>
  <div class="main">
    <div class="left-section">
      <div class="nav">
        <div class="logo">
          <img src="irctc.png" alt="IRCTC Logo">
            <img id="second-img" src="indian-railways.png" alt="Indian</pre>
Railways Logo">
        </div>
        <div class="menu">
          <div class="menu-item">
            <a href="#">Ask Disha</a> <br>
            <button class="btn-login">Login
          </div>
          <div class="menu-item">
            <a href="#">Contact Us</a> <br>
            <button class="btn-reg">Register</button>
          </div>
```

```
<div class="menu-item">
     <a href="#">Alert</a> <br>
    <button class="btn-reg">Agent Login
   </div>
 </div>
</div>
<h1 id="main-heading">Indian Railways</h1>
<div class="sub-heading">
 Safety
 Security
 Punctuality
</div>
<div class="train-information">
 <i class='bx bxs-train'></i> BOOK TICKET
 <i class='bx bx-check'></i> PNR Status
 <i class='bx bx-bar-chart'></i> Bar Charts
</div>
<div class="train-location">
 <div class="location-section">
```

```
<i class='bx bxs-location-plus'></i>
    <div class="information-div">
     From <i class='bx bx-chevron-down'></i>
     <h2>Bangalore</h2>
     KSR - Bangalore
    </div>
  </div>
 <i class='bx bx-transfer'></i>
  <div class="location-section">
    <i class='bx bxs-location-plus'></i>
    <div class="information-div">
     To <i class='bx bx-chevron-down'></i>
     <h2>Kasaragod</h2>
     KSD - Kasaragod
   </div>
 </div>
</div>
```

```
<div class="train-location">
  <div class="location-section">
    <i class='bx bx-calendar-week'></i>
    <div class="information-div">
     Date <i class='bx bx-chevron-down'></i>
     <h2>1 Aug 23</h2>
     Tuesday
    </div>
  </div>
 <div class="location-section">
    <i class='bx bxs-circle'></i>
    <div class="information-div">
     Class <i class='bx bx-chevron-down'></i>
     <h2>3A</h2>
     AC 3 Tier
    </div>
 </div>
 <div class="location-section">
```

```
<i class='bx bxs-package'></i>
          <div class="information-div">
            Seat Type <i class='bx bx-chevron-down'></i>
            <h2>TATKAL</h2>
            AC 3 Tier
          </div>
       </div>
     </div>
     <button id="search-button">Search Train <i class='bx bx-right-arrow-
alt' ></i></button>
   </div>
   <div class="right-section">
     <img src="train.png" alt="Train">
   </div>
 </div>
</body>
</html>
```

CSS Code:

```
html,
body {
  margin: 0;
  padding: 0;
  font-family: 'Times New Roman', Times, serif;
}
.main {
  display: flex;
  width: 100%;
}
.left-section {
  display: flex;
  flex-direction: column;
  width: 60%;
}
.right-section {
  display: flex;
  flex-direction: column;
  width: 40%;
  height: 100vh;
}
```

```
.logo {
  position: relative;
  width: 168.31px;
  height: 81.11px;
}
.logo img {
  height: 81.11px;
  width: 81.11px;
}
#second-img {
  position: absolute;
  left: 98.31px;
}
img {
  height: 100vh;
  width: 100%;
}
.nav {
  display: flex;
```

```
flex-direction: row;
  width: 100%;
  margin: 40px 60px;
  line-height: 34px;
}
.menu {
  display: flex;
  width: 100%;
 justify-content: center;
}
.menu-item {
  margin: 0 10px;
}
.menu-item button{
  cursor: pointer;
}
a {
  text-decoration: none;
  color: #333333;
  font-size: 23px;
```

```
font-weight: 500;
}
.btn-login {
  background-color: #FB792B;
  border-radius: 5.07px;
  padding: 10.14px 15.21px 10.14px 15.21px;
  color: #ffffff;
  font-size: 15.21px;
  border: none;
}
.btn-reg {
  background-color: #ffffff;
  border-radius: 5.07px;
  padding: 10.14px 15.21px 10.14px 15.21px;
  color: #333333;
  font-size: 15.21px;
  border: 1px solid #333333;
}
#main-heading {
 margin: 0 55px;
 font-size: 50px;
```

```
}
.sub-heading {
 display: flex;
 margin: 0 55px;
 gap: 15px;
 font-size: 25px;
 font-weight: 500;
}
#safety {
 color: green;
}
#security {
 color: #FB792B;
}
#punctuality {
 color: blue;
}
.train-information {
 margin: 0 55px;
```

```
font-weight: 500;
 display: flex;
 gap: 20px;
 font-size: 20px;
}
.bx-check, .bx-bar-chart, .bxs-train {
  font-size: 20px;
}
#book-ticket, #pnr-status, #bar-chart {
 border: 2px solid black;
 padding: 10px;
}
#book-ticket {
  background-color: #030733;
  color: #ffffff;
}
.train-location {
  display: flex;
  justify-content: space-evenly;
  padding: 20px;
```

```
border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #f9f9f9;
  margin-top: 15px;
  margin-left: 55px;
  margin-right: 55px;
}
.location-section {
  display: flex;
  align-items: center;
}
.location-section i {
  font-size: 24px;
  margin-right: 15px;
}
.information-div {
  display: flex;
  flex-direction: column;
  align-items: flex-start;
}
```

```
.information-div p, .information-div h2 {
  margin: 0;
}
.information-div p {
  font-size: 14px;
  color: #666;
}
.information-div h2 {
  font-size: 20px;
  color: #333;
}
.bx-transfer {
  font-size: 35px;
  margin-top: 15px;
}
#search-button {
  background-color: rgb(46, 192, 46);
  color: #ffffff;
  padding: 20px 20px;
  border: none;
```

```
border-radius: 5px;
   font-size: 25px;
   cursor: pointer;
   width: 700px;
   margin: 15px auto;
}
.bx-right-arrow-alt {
   font-size: 24px;
}
                                          × +
 ✓ ③ Assignment-1.pdf
                      × 3 IRCTC
 ← → ♂ ᠬ 127.0.0.1:5500/index.html
                                                                                                      9 ☆ 立
                                 Ask Disha Contact Us Alert
                                         Register
                                                 Agent Login
   Indian Railways
    Safety Security Punctuality
    ■ BOOK TICKET
                             III Bar Charts
                   ✓ PNR Status
               Bangalore
KSR - Bangalore
                                               ♥ Kasaragod
KSD - Kasaragod
              Date 1 Aug 23
                                                Seat Type Y TATKAL
```