

# MERN STACK JOURNEY

## CLASS 10 NOTES – DEVELOPING LAYOUTS

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### 1. Approach to Develop a Layout

#### 1.1 HTML Image vs CSS Background Image

Ways to add images on a website

- HTML `<img>` tag
- CSS `background-image`

When to use HTML Image

- When the image is **part of the content**
- When there is **no text or elements on top of the image**

```

```

When to use CSS Background Image

- When the image is **not part of the content**
- When **text or elements are placed over the image**

```
.section {  
  background-image: url("bg.png");  
}
```

 MCQ: The HTML image element is used to add images that are part of the content. - True  - False 

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### 2. CSS Margin vs CSS Padding

CSS Padding

- Space **inside the border**
- Space between **content and border**

CSS Margin

- Space **outside the border**
- Space between **HTML elements**

```
.button {  
    padding: 20px;  
    margin: 15px;  
}
```

✓MCQ: The margin is the space present outside the border of an HTML element. - True ✓ - False

### 3. Step-by-Step Process to Develop Diwali Page

The Diwali page is divided into: - Top Section - Bottom Section

#### 3.1 Top Section

##### Step 1: Background Image

- Add background image
- Set height
- Use `background-size: cover`

##### Step 2: Heading Styling

- Text color
- Font family
- Font size
- Width
- Padding

```
.diwali-top-section {  
    background-image: url("diwali-bg.png");  
    height: 30vh;  
    background-size: cover;  
}  
  
.diwali-top-section-heading {  
    color: white;  
    font-family: "Caveat";  
    font-size: 36px;  
    width: 200px;  
    padding: 20px;  
}
```

## 3.2 Bottom Section

### Step 1: Bottom Section Container

- Background color
- Padding

### Step 2: Card Item Design

Each card contains: - Image - Product name - Price

Card styling: - Background color - Width - Border radius - Padding - Margin - Text alignment

### Step 3: Aligning Cards

- Use Flexbox
- `display: flex`
- `flex-direction: row`
- `justify-content: center`

### Step 4: Button

- Bootstrap button
- Center aligned

```
.diwali-bottom-section {  
    text-align: center;  
    background-color: #e6f6ff;  
    padding: 15px;  
}  
  
.diwali-card-item {  
    background-color: white;  
    width: 140px;  
    border-radius: 9px;  
    padding: 16px;  
    margin: 15px;  
}
```

## 4. Resources Used

### Background Image

- <https://d2clawv67efefq.cloudfront.net/ccbp-static-website/diwali-bg.png>

### Card Images

- Lamp Image
- Diya Image

- Firework Image
- Firecracker Image

## Colors Used

- white
  - **e6f6ff**
  - **616e7c**
  - **323f4b**
- 

## 5. Interview Questions (Beginner Level)

1. Difference between margin and padding?
  2. When should you use `background-image` instead of `img` tag?
  3. What does `background-size: cover` do?
  4. Why is Flexbox used in layouts?
  5. Difference between content image and decorative image?
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## 6. Key Takeaways

- Proper layout planning is important
  - Understand spacing using margin and padding
  - Use background images for decorative sections
  - Flexbox helps in alignment and responsiveness
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These notes are GitHub-ready and suitable for interviews, revision, and portfolio documentation.