

## Docker Task -2

### Task Description:

Create a dockerfile, docker-compose file which when executed must display your basic details in the website.

### Techstacks needs to be used :

- VS-Code
- Docker

### Creating a Docker-file:

```
1 FROM nginx:alpine (last pushed 1 week ago)
2 RUN rm -rf /usr/share/nginx/html/*
3 COPY index.html /usr/share/nginx/html/index.html
4 COPY style.css /usr/share/nginx/html/style.css
5
6
7
8 EXPOSE 80
9 CMD ["nginx" , "-g" , "daemon off;"]
```

## Using Commands to build image and Container:

```
PS C:\Users\sheer\Documents\docker-task\docker-practice> docker build -t custom-image .
[+] Building 5.2s (10/10) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 245B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [auth] library/nginx:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/nginx:alpine@sha256:61e01287e546aac28a3f56839c136b31f590273f3b41187a36f46f6a03bbfe22
=> => resolve docker.io/library/nginx:alpine@sha256:61e01287e546aac28a3f56839c136b31f590273f3b41187a36f46f6a03bbfe22
=> [internal] load build context
=> => transferring context: 61B
=> CACHED [2/4] RUN rm -rf /usr/share/nginx/html/*
=> CACHED [3/4] COPY index.html /usr/share/nginx/html/index.html
=> CACHED [4/4] COPY style.css /usr/share/nginx/html/style.css
=> exporting to image
=> => exporting layers
=> => exporting manifest sha256:5f5dff8ec8be9546e0cb35a7f604570a169d2135868b8b7d7a93666694e3aa70
=> => exporting config sha256:3784ca19b3256b61eda6bdc0270d033ef2daea12d544e223a3d7fb940c65eed
=> => exporting attestation manifest sha256:523666fba21d976b83469c726df888b4eb21f6549e9fbb4b98cabe3f8136a821
=> => exporting manifest list sha256:ac517a43cf8407244d39895246ec1e9b55d3dc4949fcb36e512911ab44db8089
=> => naming to docker.io/library/custom-image:latest
=> => unpacking to docker.io/library/custom-image:latest

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/nobwsh6867p6a3ydx7p39iuh
PS C:\Users\sheer\Documents\docker-task\docker-practice> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
custom-image         latest             ac517a43cf84       3 hours ago        79.8MB
PS C:\Users\sheer\Documents\docker-task\docker-practice> docker run -d -p 2000:80 custom-image
8f3b4aa54026a686f4d337c656d06c0947ecfbb2a7118f483e737007e7e47bed
PS C:\Users\sheer\Documents\docker-task\docker-practice> docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
8f3b4aa54026        custom-image       "/docker-entrypoint..." 7 seconds ago       Up 5 seconds        0.0.0.0:2000->80/tcp, [::]:2000->80/tcp   festive_davinci
```

## Now to check if the website is deployed or not :

```
PS C:\Users\sheer\Documents\docker-task\docker-practice> curl http://localhost:2000
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
  <title>Amazon Shopping Clone</title>
  <link rel="stylesheet" href="style.css" />
</head>
<body>
  <!-- HEADER SECTION -->
  <header>
    <nav class="navbar">
      <div class="logo"></div>
      <div class="search-bar">
        <input type="text" placeholder="Search Amazon" />
        <button>🔍</button>
      </div>
      <div class="nav-links">
        <a href="#">Sign In</a>
        <a href="#">Orders</a>
        <a href="#">Cart 🛒</a>
      </div>
    </nav>
  </header>

  <!-- CATEGORY BAR -->
  <div class="category-bar">
    <a href="#">All</a>
    <a href="#">Mobiles</a>
    <a href="#">Electronics</a>
    <a href="#">Fashion</a>
    <a href="#">Home</a>
    <a href="#">Grocery</a>
    <a href="#">Appliances</a>
    <a href="#">Books</a>
  </div>

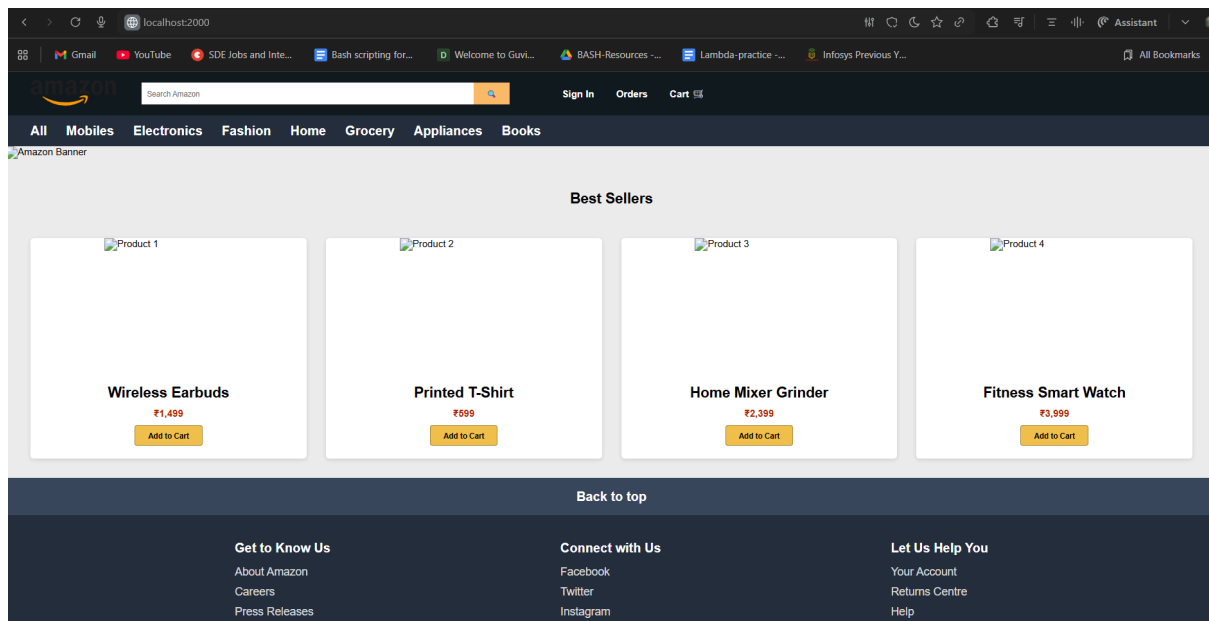
  <!-- HERO BANNER -->
  <section class="hero">
```

```
PS C:\Users\sheer\Documents\docker-task\docker-practice> curl http://localhost:2000
<!-- HERO BANNER -->
<section class="hero">
  
</section>

<!-- PRODUCT GRID SECTION -->
<main>
  <h2 style="text-align:center;">Best Sellers</h2>
  <div class="product-grid">
    <div class="product-card">
      
      <div class="product-info">
        <h3>Wireless Earbuds</h3>
        <p>£1,499</p>
        <button>Add to Cart</button>
      </div>
    </div>
    <div class="product-card">
      
      <div class="product-info">
        <h3>Printed T-Shirt</h3>
        <p>£599</p>
        <button>Add to Cart</button>
      </div>
    </div>
    <div class="product-card">
      
      <div class="product-info">
        <h3>Home Mixer Grinder</h3>
        <p>£2,399</p>
        <button>Add to Cart</button>
      </div>
    </div>
    <div class="product-card">
      
      <div class="product-info">
        <h3>Fitness Smart Watch</h3>
        <p>£3,999</p>
        <button>Add to Cart</button>
      </div>
    </div>
  </div>
</main>
```

```
      <h3>Fitness Smart Watch</h3>
      <p>£3,999</p>
      <button>Add to Cart</button>
    </div>
  </div>
</div>
</main>

<!-- FOOTER SECTION -->
<footer>
  <div class="footer-title">Back to top</div>
  <div class="footer-items">
    <div>
      <h3>Get to Know Us</h3>
      <ul>
        <li><a href="#">About Amazon</a></li>
        <li><a href="#">Careers</a></li>
        <li><a href="#">Press Releases</a></li>
      </ul>
    </div>
    <div>
      <h3>Connect with Us</h3>
      <ul>
        <li><a href="#">Facebook</a></li>
        <li><a href="#">Twitter</a></li>
        <li><a href="#">Instagram</a></li>
      </ul>
    </div>
    <div>
      <h3>Let Us Help You</h3>
      <ul>
        <li><a href="#">Your Account</a></li>
        <li><a href="#">Returns Centre</a></li>
        <li><a href="#">Help</a></li>
      </ul>
    </div>
  </div>
</footer>
</body>
</html>
```



The website is successfully deployed through nginx-proxy web server.

Now i will be deploying the different - website through docker-compose

```
1  docker-compose.yml - The Compose specification establishes a standard
2  services:
3      > Run Service
4      proxy :
5          image:
6              nginx:alpine
7          ports:
8              - "3000:80"
9          volumes:
10             - ./:/usr/share/nginx/html:ro
```

```
PS C:\Users\sheer\Documents\docker-task\docker-practice\demo-web-2> ls

Directory: C:\Users\sheer\Documents\docker-task\docker-practice\demo-web-2

Mode                LastWriteTime         Length Name
----                -
-a---             24-10-2025   02:31           158 docker-compose.yml
-a---             24-10-2025   02:55          2760 index.html
-a---             24-10-2025   02:55          1867 style.css

PS C:\Users\sheer\Documents\docker-task\docker-practice\demo-web-2> docker compose up -d --build
[+] Running 2/2
 ✓ Network demo-web-2 default    Created                                0.1s
 ✓ Container demo-web-2-proxy-1 Started                                1.0s

PS C:\Users\sheer\Documents\docker-task\docker-practice\demo-web-2> docker compose ls
NAME                STATUS              CONFIG FILES
demo-web-2          running(1)          C:\Users\sheer\Documents\docker-task\docker-practice\demo-web-2\docker-compose.yml

PS C:\Users\sheer\Documents\docker-task\docker-practice\demo-web-2> curl http://localhost:3000
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Flipkart Clone</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <!-- Navbar -->
  <header>
    <div class="logo">Flipkart</div>
    <input type="text" placeholder="Search for products, brands and more" class="search-bar">
    <button class="login-btn">Login</button>
    <nav>
      <a href="#">Become a Seller</a>
      <a href="#">More</a>
      <a href="#">Cart</a>
    </nav>
  </header>
```

```
PS C:\Users\sheer\Documents\docker-task\docker-practice\demo-web-2> curl http://localhost:3000

  <!-- Banner -->
  <section class="banner">
    
  </section>

  <!-- Category Section -->
  <section class="categories">
    <div class="category">
      
      <p>Mobiles</p>
    </div>
    <div class="category">
      
      <p>Fashion</p>
    </div>
    <div class="category">
      
      <p>Electronics</p>
    </div>
    <div class="category">
      
      <p>Home & Furniture</p>
    </div>
    <div class="category">
      
      <p>Appliances</p>
    </div>
  </section>

  <!-- Product Grid -->
  <section class="products">
    <h2>Best of Electronics</h2>
    <div class="product-grid">
      <div class="product">
        
        <p>Product Name</p>
        <span>$5,999</span>
      </div>
    </div>
  </section>
```

```
</section>

<!-- Product Grid -->
<section class="products">
  <h2>Best of Electronics</h2>
  <div class="product-grid">
    <div class="product">
      
      <p>Product Name</p>
      <span>₹5,999</span>
    </div>
    <div class="product">
      
      <p>Product Name</p>
      <span>₹2,499</span>
    </div>
    <div class="product">
      
      <p>Product Name</p>
      <span>₹3,999</span>
    </div>
    <div class="product">
      
      <p>Product Name</p>
      <span>₹7,499</span>
    </div>
  </div>
</section>

<!-- Footer -->
<footer>
  <p>© 2025 Flipkart Clone | Designed for practice</p>
</footer>

</body>
</html>
```

