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Practical No: 12

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Aim: Implementation of Nodejs Express Applications.

Q) Create functional components to demonstrate

CODE (app.js):

```
const express = require('express');
const path = require('path');
const app = express();
const PORT = process.env.PORT || 3000;

app.set('view engine', 'ejs');
app.set('views', path.join(__dirname, 'views'));

app.use(express.static(path.join(__dirname, 'public')));

const napoleonData = {
  title: "Napoleon Bonaparte - Emperor of the French",
  sections: {
    earlyLife: {
      title: "Early Life",
      content: "Napoleon Bonaparte was born on August 15, 1769, in Ajaccio, Corsica. He attended military school in France and quickly rose through the ranks of the military during the French Revolution."
    },
    militaryCampaigns: {
      title: "Military Campaigns",
      content: "Napoleon led successful campaigns in the Italian Peninsula and Egypt, establishing his reputation as a brilliant military strategist. His most famous victories include Austerlitz, Jena, and Friedland."
    },
    emperor: {
      title: "Emperor of the French",
      content: "In 1804, Napoleon crowned himself Emperor of the French. He implemented
```

```
the Napoleonic Code, which influenced legal systems worldwide, and reformed France's education system."
    },
    exile: {
      title: "Exile and Death",
      content: "After defeat in the War of the Sixth Coalition, Napoleon was exiled to Elba in 1814. He escaped in 1815 but was defeated at Waterloo. He died in exile on Saint Helena in 1821."
    }
  },
  timeline: [
    { year: "1769", event: "Born in Corsica" },
    { year: "1796", event: "Marries Joséphine de Beauharnais" },
    { year: "1799", event: "Becomes First Consul of France" },
    { year: "1804", event: "Crowned Emperor" },
    { year: "1812", event: "Invades Russia" },
    { year: "1814", event: "Exiled to Elba" },
    { year: "1815", event: "Defeated at Waterloo" },
    { year: "1821", event: "Dies in Saint Helena" }
  ]
};

app.get('/', (req, res) => {
  res.render('index', { data: napoleonData });
});
```

```
});

app.listen(PORT, () => {
```

```
console.log(`Napoleon SPA running on
http://localhost:${PORT}`);
});
```

CODE (views/index.js)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-
width, initial-scale=1.0">
  <title>
    <%= data.title %>
  </title>
  <link rel="preconnect"
href="https://fonts.googleapis.com">
  <link rel="preconnect"
href="https://fonts.gstatic.com" crossorigin>
  <link
    href="https://fonts.googleapis.com/css2?
family=Playfair+Display:wght@400;500;600;700&fam
ily=Inter:wght@300;400;500;600&display=swap"
    rel="stylesheet">
  <link rel="stylesheet"
href="/css/style.css">
</head>
<body>
  <header>
    <nav class="navbar">
      <div class="container">
        <div class="nav-brand">
          <h1>
            <%= data.title %>
          </h1>
        </div>
        <ul class="nav-links">
          <li><a href="#early-
life">Early Life</a></li>
          <li><a
href="#military">Military</a></li>
          <li><a
href="#emperor">Emperor</a></li>
          <li><a
href="#exile">Exile</a></li>
          <li><a
href="#timeline">Timeline</a></li>
          <li><a
href="#gallery">Gallery</a></li>
        </ul>
      </div>
    </nav>
  </header>
  <main>
    <section class="hero">
      <div class="hero-content">
        <h2>The Rise and Fall of an
Emperor</h2>
        <p>Explore the life and legacy
of one of history's most fascinating military
leaders and rulers</p>
        <div class="hero-stats">
          <div class="stat">
```

```

          <span class="stat-
number">52</span>
          <span class="stat-
label">Battles Fought</span>
        </div>
        <div class="stat">
          <span class="stat-
number">15</span>
          <span class="stat-
label">Years as Emperor</span>
        </div>
        <div class="stat">
          <span class="stat-
number">12M</span>
          <span class="stat-
label">Square Km Empire</span>
        </div>
      </div>
      <div class="hero-scroll">
        <span>↓</span>
      </div>
    </section>
    <section id="early-life" class="content-
section with-image">
      <div class="container">
        <div class="section-header">
          <h2>
            <%=
data.sections.earlyLife.title %>
          </h2>
          <div class="section-
divider"></div>
        </div>
        <div class="content-grid">
          <div class="content-text">
            <p>
              <%=
data.sections.earlyLife.content %>
            </p>
            <div class="key-facts">
              <h3>Key Facts</h3>
              <ul>
                <li>Born in
Ajaccio, Corsica on August 15, 1769</li>
                <li>Attended
military school in Brienne, France</li>
                <li>Graduated
from École Militaire in Paris at age 16</li>
                <li>Spoke French
with a Corsican accent throughout his life</li>
              </ul>
            </div>
          </div>
          <div class="content-image">
            
        <p class="image-
caption">Napoleon's birthplace in Ajaccio,
Corsica</p>
        </div>
    </div>
</div>
</section>
<section id="military" class="content-
section with-image">
    <div class="container">
        <div class="section-header">
            <h2>
                <%=
data.sections.militaryCampaigns.title %>
            </h2>
            <div class="section-
divider"></div>
        </div>
        <div class="content-grid
reverse">
            <div class="content-text">
                <p>
                    <%=
data.sections.militaryCampaigns.content %>
                </p>
                <div class="battles-
list">
                    <h3>Major
Battles</h3>
                    <div class="battle-
item">
                        <span
class="battle-name">Austerlitz</span>
                        </div>
                        <div class="content-image">
                            
                            <p class="image-
caption">Napoleon Bonaparte in his military
uniform</p>
                        </div>
                    </div>
                </div>
            </div>
            <section id="emperor" class="content-
section with-image">
                <div class="container">
                    <div class="section-header">
                        <h2>
                            <%=
data.sections.emperor.title %>
                        </h2>
                        <div class="section-
divider"></div>
                    </div>
                    <div class="content-grid">
                        <div class="content-text">
                            <p>

```

```

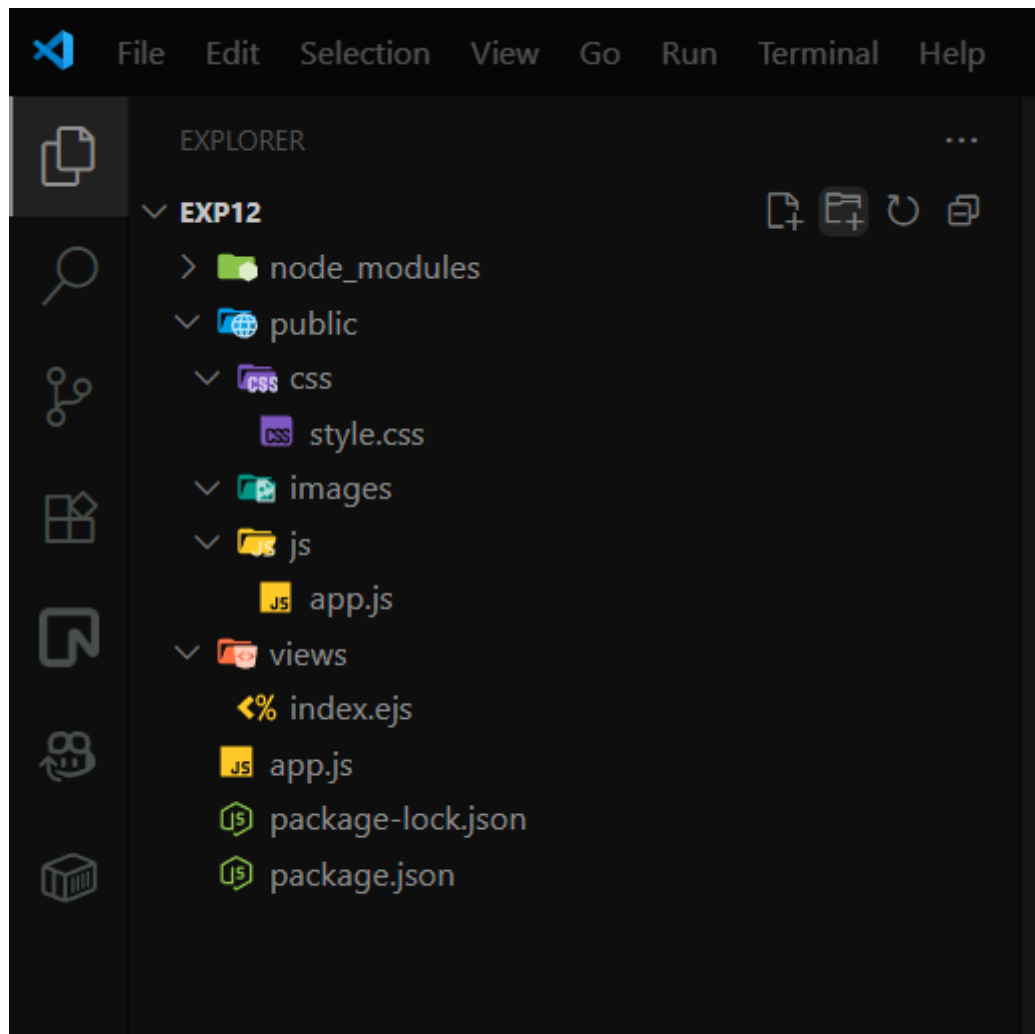
                <%=
data.sections.emperor.content %>
            </p>
        </div>
    </div>
    class="achievements">
        <h3>Key
Achievements</h3>
        <div
class="achievement-grid">
            <div
class="achievement-item">
                <div
class="achievement-icon"><img alt="Key icon" /></div>
                <h4>Napoleon
ic Code</h4>
                <p>Legal
system that influenced civil law worldwide</p>
            </div>
            <div
class="achievement-item">
                <div
class="achievement-icon"><img alt="Bank icon" /></div>
                <h4>Bank of
France</h4>
                <p>Establish
ed central banking system</p>
            </div>
            <div
class="achievement-item">
                <div
class="achievement-icon"><img alt="Education icon" /></div>
                <h4>Educatio
n Reform</h4>
                <p>Created
lycée system for secondary education</p>
            </div>
        </div>
        <div class="content-image">
            
            <p class="image-
caption">Napoleon's coronation as Emperor of the
French</p>
        </div>
    </div>
</div>
</section>
<section id="exile" class="content-
section with-image">
    <div class="container">
        <div class="section-header">
            </section>
            <section id="gallery" class="content-
section">
                <div class="container">
                    <div class="section-header">
                        <h2>Historical Gallery</h2>
                        <div class="section-
divider"></div>

```

```
</div>
<div class="gallery-grid">
  <div class="gallery-item">
    
    <div class="gallery-
caption">Napoleon Crossing the Alps</div>
  </div>
  <div class="gallery-item">
    
    <div class="gallery-
caption">Battle of Austerlitz</div>
  </div>
  <div class="gallery-item">
    
    <div class="gallery-
caption">Napoleon at Waterloo</div>
  </div>
  <div class="gallery-item">
    
    <div class="gallery-
caption">Emperor Napoleon I</div>
  </div>
</div>
</section>
<section id="legacy" class="content-
section bg-dark">
  <div class="container">
    <div class="section-header">
      <h2>Napoleon's Legacy</h2>
    <div class="section-
divider"></div>
  </div>
  <div class="legacy-content">
    <div class="quote">
      <blockquote>
        "Impossible is a
word to be found only in the dictionary of
fools."
      </blockquote>
      <cite>- Napoleon
Bonaparte</cite>
    </div>
  </div>
</section>
</div>
```

```
</blockquote>
</div>
<div class="legacy-facts">
  <h3>Lasting Impact</h3>
  <ul>
    <li>Napoleonic Code
influenced legal systems worldwide</li>
    <li>Reformed
education and administrative systems in
France</li>
    <li>Spread
revolutionary ideals across Europe</li>
    <li>Inspired
military tactics and strategy for
generations</li>
  </ul>
</div>
</div>
</section>
</main>
<footer>
  <div class="container">
    <div class="footer-content">
      <div class="footer-section">
        <h3>Napoleon Bonaparte</h3>
        <p>Emperor of the French
(1804-1814/1815)</p>
      </div>
      <div class="footer-section">
        <h4>Explore More</h4>
        <ul>
          <li><a href="#early-
life">Early Life</a></li>
          <li><a
href="#military">Military Career</a></li>
          <li><a
href="#emperor">As Emperor</a></li>
          <li><a
href="#timeline">Timeline</a></li>
        </ul>
      </div>
      <div class="footer-section">
        <h4>Resources</h4>
        <ul>
          <li><a
href="#">Historical Documents</a></li>
          <li><a href="#">Museum
Collections</a></li>
          <li><a href="#">Further
Reading</a></li>
        </ul>
      </div>
    </div>
  </div>
  <div class="footer-bottom">
    <p>&copy; 2024 Napoleon
Bonaparte Historical Archive. Educational
purposes only.</p>
    <p>All images from Wikimedia
Commons - Public Domain</p>
  </div>
</div>
</footer>
<script src="/js/app.js"></script>
</body>
</html>
```

Folder Structure:



OUTPUT:

