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Class: LY IT Core

Lab Assignment No.: 4

Create the angular application and create three components. Also add the routes.

1. Write the template content inside the component,
2. Write the template in the html

Component 1: Hello_world

hello_world.component.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Blockchain Intro</title>
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f0f0f0;
    }

    .hero-section {
      background-color: #3498db;
      color: #fff;
      text-align: center;
      padding: 100px 0;
    }

    .hero-section h1 {
      font-size: 2.5rem;
    }

    .hero-section p {
      font-size: 1.2rem;
    }

    .content {
      max-width: 800px;
      margin: 40px auto;
      padding: 20px;
      background-color: #fff;
      border-radius: 5px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
    }

    ul {
      list-style: disc;
      padding-left: 20px;
    }
  </style>
</head>
<body>
  <div class="hero-section">
    <h1>Blockchain Intro</h1>
    <p>Welcome to the world of Blockchain</p>
  </div>
  <div class="content">
    <ul>
      <li>Blockchain is a distributed ledger technology</li>
      <li>It is used for various applications like cryptocurrencies, supply chain, etc.</li>
      <li>It is a secure and transparent system</li>
    </ul>
  </div>
</body>
</html>
```

```

        li {
            margin: 10px 0;
        }
    </style>
</head>
<body>
    <div class="hero-section">
        <h1>Welcome to Blockchain</h1>
        <p>Blockchain is a revolutionary technology that underlies
cryptocurrencies and has various applications in finance, supply chain,
and more.</p>
    </div>

    <div class="content">
        <h2>What is Blockchain?</h2>
        <p>Blockchain is a distributed and immutable ledger technology
that enables secure and transparent record-keeping. Here are some key
points:</p>
        <ul>
            <li>Consists of a chain of blocks containing data.</li>
            <li>Data is stored in a decentralized network of
computers.</li>
            <li>Transactions are secure and tamper-resistant.</li>
            <li>Used in cryptocurrencies like Bitcoin.</li>
        </ul>
    </div>
</body>
</html>

```

hello_world.component.ts

```
import { Component } from '@angular/core';

@Component({
  selector: 'app-hello-world',
  templateUrl: './hello-world.component.html',
  styleUrls: ['./hello-world.component.css']
})
export class HelloWorldComponent {
}
```

Component 2: Home

[home.component.html](#)

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Detailed Blockchain Information</title>
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f0f0f0;
    }

    .content {
      max-width: 800px;
      margin: 40px auto;
      padding: 20px;
      background-color: #fff;
      border-radius: 5px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
    }

    h2 {
      font-size: 1.5rem;
    }

    p {
      font-size: 1.2rem;
    }

    ul {
      list-style: disc;
      padding-left: 20px;
    }

    li {
      margin: 10px 0;
    }
  </style>
</head>
<body>
```

```
<div class="content">
  <h2>Detailed Information about Blockchain</h2>
  <p>Blockchain is a complex technology with many facets. Here's
a more detailed explanation:</p>
  <ul>
    <li>Blockchain uses cryptographic techniques to secure data
and transactions.</li>
    <li>Each block contains a timestamp and a reference to the
previous block.</li>
    <li>There are different types of blockchains, including
public, private, and consortium blockchains.</li>
    <li>Smart contracts, self-executing contracts with the
terms of the agreement directly written into code, are a key feature of
blockchain technology.</li>
    <li>Blockchain is transforming various industries,
including finance, healthcare, and supply chain management.</li>
  </ul>
</div>
</body>
</html>
```

[home.component.ts](#)

```
import { Component } from '@angular/core';

@Component({
  selector: 'app-home',
  templateUrl: './home.component.html',
})
export class HomeComponent {
}
```

Component 3: comp3

comp3.component.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>More about Blockchain</title>
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f0f0f0;
    }

    .content {
      max-width: 800px;
      margin: 40px auto;
      padding: 20px;
      background-color: #fff;
      border-radius: 5px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
    }

    h2 {
      font-size: 1.5rem;
    }

    p {
      font-size: 1.2rem;
    }

    ul {
      list-style: disc;
      padding-left: 20px;
    }

    li {
      margin: 10px 0;
    }
  </style>
</head>
<body>
```



```
<div class="content">
  <h2>Blockchain Technology Explained</h2>
  <p>Blockchain is a decentralized and distributed ledger
technology that provides transparency and security. Here are some
essential aspects:</p>
  <ul>
    <li>Each block in the chain contains data and a reference
to the previous block.</li>
    <li>Data is stored on a network of nodes, making it tamper-
resistant.</li>
    <li>Transactions are verified through consensus mechanisms
like Proof of Work or Proof of Stake.</li>
    <li>Blockchain has applications beyond cryptocurrency,
including supply chain management, healthcare, and more.</li>
  </ul>
</div>
</body>
</html>
```

comp3.component.ts

```
import { Component } from '@angular/core';

@Component({
  selector: 'app-comp3',
  templateUrl: './comp3.component.html',
  styleUrls: ['./comp3.component.css']
})
export class Comp3Component {

}
```

app.component.html

```
<!-- component 1 -->
<app-hello-world></app-hello-world>

<!-- component 2 -->
<app-home></app-home>

<!-- component 3 -->
<app-comp3></app-comp3>

<!-- styling the routing links -->
<head>
  <meta charset="UTF-8">
  <title>Routing Example</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f0f0f0;
    }

    .routing-links {
      display: flex;
      flex-direction: column;
      align-items: center;
      gap: 10px;
      margin-top: 20px;
    }

    .routing-link {
      text-decoration: none;
      font-size: 1.2rem;
      padding: 10px 20px;
      border: 2px solid #3498db;
      border-radius: 5px;
      color: #3498db;
      transition: background-color 0.3s, color 0.3s;
    }

    .routing-link:hover {
      background-color: #3498db;
      color: #fff;
    }
  </style>
```

```
</head>

<!-- routing code -->
<body>
  <div class="routing-links">
    <a [routerLink]="['/']" class="routing-link">
      Home
    </a>

    <a [routerLink]="['/hello-world']" class="routing-link">
      Component 1
    </a>

    <a [routerLink]="['/home']" class="routing-link">
      Component 2
    </a>

    <a [routerLink]="['/comp3']" class="routing-link">
      Component 3
    </a>
  </div>

  <router-outlet></router-outlet>
</body>
```

Output:





