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Enrolment No.: MITU20BTIT0029

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;

        }

        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](http://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](http://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:

