**EXPERIMENT 2: (webpage using bootstrap)**

**Source Code:-**

**<!DOCTYPE html>**

**<html lang="en">**

**//Head Tag**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial**

**scale=1.0">**

**<title>Week2 Bootstrap</title>**

**//Css style**

**<style> footer {**

**color: white; padding: 15px; bottom: 0; position: absolute;**

**}**

**</style>**

**Bootstrap CDN Links<link**

**href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.**

**min.css" rel="stylesheet" integrity="sha384-**

**1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oB**

**oqyl2QvZ6jIW3" crossorigin="anonymous">**

**<script**

**src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bu**

**ndle.min.js" integrity="sha384-**

**ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LR**

**n5q+8nbTov4+1p" crossorigin="anonymous">**

**</script>**

**</head>**

**//body tag**

**<body>**

**//Creating NavBar**

**<nav class="navbar navbar-expand navbar-dark bg-success">**

**<div class="container-fluid">**

**//Attaching Navbar brand image**

**<a class="navbar-brand" href=""><img src="dora.jfif" alt="dora"**

**width="40" height="40"></a>**

**//Attaching navbar About us and Contact using Unorder list tags and**

**anchor links tags**

**<ul class="navbar-nav me-auto mb-2 mb-lg-0">**

**<li class="nav-item">**

**<a class="nav-link active" href="">About us</a>**

**</li><li class="nav-item">**

**<a class="nav-link" href="">Contact</a>**

**</li>**

**//Attaching navbar dropdown-toggle button same unorder list tag**

**<li class="nav-item dropdown">**

**<a class="nav-link dropdown-toggle" role="button"**

**id="navbarDropdown"**

**data-bs-toggle="dropdown" href="">Episodes</a>**

**//Attaching dropdown-items in dropdown menu**

**<ul class="dropdown-menu">**

**<li>**

**<a class="dropdown-item" href="">Episode1</a>**

**</li>**

**<li>**

**<a class="dropdown-item" href="">Episode2</a>**

**</li>**

**</ul>**

**</li>**

**</ul>**

**//attaching navbar search type and submit button**

**<form class="d-flex">**

**<input class="form-cotrol me-2" type="search" placeholder="search**

**website"/>**

**<button class="btn btn-primary" type="submit">search</button>**

**</button></form>**

**//closing div tag**

**</div>**

**//closing navbar tag**

**</nav>**

**//creating grid dividing columns col-sm-4 and col-sm-8**

**<div class="container mt-5">**

**<div class="row">**

**<div class="col-sm-4">**

**<h3>Doraemon Biography</h3>**

**</div>**

**<div class="col-sm-8">**

**<h2>Article Title</h2>**

**<h5>Created on 06 march 2024</h5>**

**<p>Doraemon is a male robotic earless cat that travels back in time**

**from the 22nd century to aid a preteen boy named Nobita.**

**An official birth certificate for the character gives him a birth date of**

**3 September 2112 and lists his city of residency as Kawasaki,**

**Kanagawa,**

**the city where the manga was created.</p>**

**</div>**

**</div>**

**</div>**

**//creating footer tag**

**<footer class="container-fluid text-center bg-success">**

**<p>copy right CMRIT\_2024<br></footer>**

**//closing body and html tags**

**</body>**

**</html>**

**Exp-5 (nodejs server with router login…etc)**

**Code:-**

**index.html:-**

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial**

**scale=1.0">**

**<title>Week 3 Register and Login page</title>**

**<style> a{**

**background-color: blue; color: #f0e8e8;**

**/\*margin: 1px solid;\*/ font-size: 50px;**

**}**

**body{**

**position: relative; text-align: center; top: 200px;**

**}**

**</style>**

**</head>**

**<body>**

**<div>**

**<a href="/login" >Login</a>**

**<a href="/register" >Register</a>**

**</div>**

**</body>**

**</html>**

**register.html:-**

**<!DOCTYPE html>**

**<html><head>**

**<style> body{**

**text-align: center; font-family: sans-serif;**

**}**

**h1{font-size: 20px;**

**}**

**table tr td {**

**padding-top: 6px; padding-bottom: 6px;**

**}**

**fieldset{width:500px; text-align: center;margin: auto;}**

**</style>**

**<div id="header">**

**<h1>Registration</h1>**

**</div>**

**<div id="content">**

**<meta http-equiv="Content-Type" content="text/html; charset=UTF-**

**8">**

**<title>Register</title>**

**</head>**

**<script>**

**function validate()**

**{var fn = frm.fname.value; localStorage.setItem("firstname",fn) for(x**

**in fn)**

**{**

**ch=fn.charCodeAt(x); if(ch<65||ch>90 && ch<97||ch>122)**

**{**

**alert("Invalid firstname"); return false;**

**}**

**}**

**var ln = frm.lname.value; localStorage.setItem("lastname",ln)**

**for(y in ln)**

**{**

**ch=ln.charCodeAt(y); if(ch<65||ch>90 && ch<97||ch>122)**

**{**

**alert("Invalid lastname"); return false;**

**}**

**}**

**var phn = frm.phone.value; localStorage.setItem("phone",phn) var**

**lenp = phn.length;**

**if (lenp!==10)**

**{**

**alert("Phone no should be exactly 10 digits"); return false;**

**}**

**var pwd1=frm.pwd.value; localStorage.setItem("password",pwd1) var**

**pwdl=pwd1.length; if(pwdl%2===1){**

**alert("Password should contain even number of characters"); return**

**false;**

**}**

**if(pwdl > 8)**

**{**

**alert("Password should not exceed 8 digits");**

**return false;**

**}**

**var reg = /^[a-z0-9]+@[a-z]+\.[a-z]{2,3}$/; var mail=frm.mailid.value;**

**localStorage.setItem("email",mail)**

**if (reg.test(mail)){ alert("Registration Successful!!");**

**}**

**else{**

**alert("Invalid email"); return false;**

**}**

**return true;**

**}**

**</script>**

**<div id="container">**

**<body><center>**

**<form name="frm" method="POST" action="/login"**

**onSubmit="return validate()">**

**<fieldset align="center">**

**<table align="center">**

**<tr><td>First Name: </td><td><input type="text" name="fname"**

**value="" size="50" required/></td></tr>**

**<tr><td>Last Name: </td><td> <input type="text" name="lname"**

**value="" size="50" required/></td></tr>**

**<tr><td>Phone No: </td><td> <input type="text" name="phone"**

**value="" size="50" required/></td></tr>**

**<tr><td>Mail id:</td><td><input type="email" name="mailid"**

**value="" size="50" required/></td></tr>**

**<tr><td>Gender:</td>**

**<td>Male: <input type="radio" name="gender" value="male" >**

**Female:**

**<input type="radio" name="gender"**

**value="female"></td></tr>**

**<tr><td>DOB :</td><td><input type="date" name="dob" size="50"**

**required/></td></tr>**

**<tr><td>Username:</td><td><input type="text" name="uname"**

**value="" size="50" required/></td></tr>**

**<tr><td>Password:</td><td><input type="password" name="pwd"**

**value="" size="50" required/></td></tr><tr><td>Age:</td><td><input type="text" name="age" value=""**

**size="50" required/></td></tr>**

**</table>**

**<input type="submit" value="SUBMIT" name="submit" />**

**</fieldset>**

**</form>**

**</div>**

**</center>**

**</body>**

**<div id="footer">**

**Copyright © CMRIT\_2024**

**</div>**

**</div>**

**</html>**

**login.html:-**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<title>Login Form</title>**

**</head>**

**<script>**

**function LoginValidate(){var enteremail=document.getElementById('email').value; var**

**enterpassword=document.getElementById('pwd').value;**

**var getEmail=localStorage.getItem('email') var**

**getPwd=localStorage.getItem('password') if(enteremail==getEmail)**

**{**

**if(enterpassword==getPwd)**

**{**

**alert("login success"); window.location= "/welcome" ; return false;**

**}**

**else**

**{**

**alert("wrong password");**

**}**

**}**

**else**

**{**

**alert("invalid details");**

**}**

**}</script>**

**<body style="text-align: center;">**

**<div class="main">**

**<h1>Login Form</h1>**

**<h3>Enter your login credentials</h3>**

**<form >**

**<label for="first"> Email:**

**</label>**

**<input type="text" name="first" id="email" placeholder="Enter your**

**Username" required>**

**<br> <br>**

**<label for="password"> Password:**

**</label>**

**<input type="password" name="password" id="pwd"**

**placeholder="Enter your Password" required>**

**<br> <br>**

**<button type="submit" onclick="return**

**LoginValidate()">Submit</button>**

**<br>**

**</div>**

**</form>**

**<p>Not registered?**

**<a href="/register"**

**style="text-decoration: none;">Create an account**

**</a>**

**</p>**

**</div>**

**</body>**

**</html>**

**welcome.html:-**

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial**

**scale=1.0">**

**<title>welcome</title>**

**</head>**

**<script>**

**function LogoutValidate(){ localStorage.clear();**

**}**

**function getdetails(){**

**var getfirstname=localStorage.getItem("firstname") ; var**

**getemail=localStorage.getItem("email")**

**document.getElementById("data").innerHTML="welcome to**

**"+getfirstname+" <br>" +getemail;**

**}</script>**

**<body onload="getdetails()">**

**<h1 id="data">Welcome to Cmrit</h1>**

**<form action="/" method="post">**

**<button type="submit" onclick="LogoutValidate()">Logout</button>**

**</form>**

**</body>**

**</html>**

**server.js:-**

**// Importin**

**g express module const express = require('express'); const app =**

**express();**

**//app.use(express.json());**

**app.get('/',**

**(req, res) => {**

**res.sendFile(**

**dirname + '/index.html');**

**});**

**app.get('/login', (req, res) => {**

**res.sendFile(**

**dirname + '/login.html');**

**});**

**app.get('/register', (req, res) => {res.sendFile(**

**dirname + '/register.html');**

**});**

**app.get('/welcome', (req, res) => {**

**res.sendFile(**

**dirname + '/welcome.html');**

**});**

**app.post('/',(req, res) => { res.redirect("/")**

**});**

**app.post('/login',(req, res) => { res.redirect("/login")**

**});**

**app.post('/register',(req, res) => { res.redirect("/register")**

**});**

**app.post('/welcome',(req, res) => { res.redirect("/welcome")**

**});**

**app.listen(3000, () => {**

**console.log(**

**'Our express server is up on port 3000'**

**);**

**});**

**Week 10 (rest api)**

**Step 1:- Index.html:-**

**Add bootstrap CDN links in the index.html**

**<link**

**href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstr**

**ap.min.css" rel="stylesheet" integrity="sha384-**

**QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6h**

**W+ALEwIH" crossorigin="anonymous"><script**

**src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap**

**.bundle.min.js" integrity="sha384-**

**YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7**

**N6jIeHz”**

**crossorigin="anonymous"></script>**

**Step 2:-Add RouterModule to the header.component.ts imports**

**import { RouterModule } from '@angular/router';**

**imports: [RouterModule],**

**Step 3:-Add RouterModule, HeaderComponent to the**

**app.component.ts imports**

**import { RouterModule, RouterOutlet } from '@angular/router';**

**import { HeaderComponent } from './header/header.component';**

**imports: [RouterOutlet,RouterModule,HeaderComponent], Step 4:-**

**Create navbar in header.component.html**

**<nav class="navbar navbar-expand-lg bg-body-tertiary">**

**<div class="container-fluid">**

**<a class="navbar-brand" [routerLink]="['/']">SPA-Demo</a>**

**<button class="navbar-toggler" type="button" data-bs**

**toggle="collapse" data-bs-target="#navbarNav" aria**

**controls="navbarNav" aria-expanded="false" aria-label="Toggle**

**navigation">**

**<span class="navbar-toggler-icon"></span>**

**</button>**

**<div class="collapse navbar-collapse" id="navbarNav"><ul class="navbar-nav">**

**<li class="nav-item">**

**<a class="nav-link active" aria-current="page"**

**[routerLinkActiveOptions]="{exact:true}" routerLinkActive="active"**

**[routerLink]="['/']">Home</a>**

**</li>**

**<li class="nav-item">**

**<a class="nav-link" [routerLinkActiveOptions]="{exact:true}"**

**routerLinkActive="active" [routerLink]="['/profile']">Profile</a>**

**</li>**

**</ul>**

**</div>**

**</div>**

**</nav>**

**Step 5:-Configure route links in app.routes.ts**

**import { Routes } from '@angular/router';**

**import { HomeComponent } from './home/home.component'; import**

**{ ProfileComponent } from './profile/profile.component';**

**export const routes: Routes = [**

**{**

**path:'', component:HomeComponent, title:'Home'},**

**{**

**path:'profile',**

**component:ProfileComponent, title:'Profile'**

**}**

**];**

**Step 6:-Use header selector in the app.component.html along with**

**<router-outlet>**

**<app-header></app-header>**

**<router-outlet></router-outlet>**

**Profile.component.html**

**<div class="card shadow-sm w-50 mt-5 p-2 mx-auto " \*ngIf="user">**

**<img class="avatar d-block mx-auto" src= "https://cdn-icons**

**png.freepik.com/512/5733/5733290.png"alt="Icon" />**

**<h2 class="text-center">Hi, {{ user.name }}</h2>**

**<table class="table table-bordered mt-3">**

**<tr>**

**<th>Username</th>**

**<td>{{user.username}}</td>**

**</tr><tr>**

**<th>Email</th>**

**<td>{{user.email}}</td>**

**</tr>**

**<tr>**

**<th>Phone</th>**

**<td>{{ user.phone }}</td>**

**</tr>**

**<tr>**

**<th>City</th>**

**<td>{{ user.address?.city }}</td>**

**</tr>**

**<tr>**

**<th>ZIP Code</th>**

**<td>{{ user.address?.zipcode }}</td>**

**</tr>**

**<tr>**

**<th>Website</th>**

**<td>{{ user.website }}</td>**

**</tr>**

**</table>**

**</div>Profile.component.ts**

**import { CommonModule } from '@angular/common';**

**import { HttpClient, HttpClientModule } from**

**'@angular/common/http'; import { Component, OnInit } from**

**'@angular/core';**

**@Component({ selector: 'app-profile', standalone: true,**

**imports: [HttpClientModule,CommonModule], templateUrl:**

**'./profile.component.html', styleUrl: './profile.component.css'**

**})**

**export class ProfileComponent implements OnInit { user:any;**

**constructor(private http: HttpClient) {}**

**ngOnInit(): void {**

**this.http.get('https://jsonplaceholder.typicode.com/users/1').subscri**

**be((data: any) => { console.log(data);**

**this.user = data;**

**console.log("API Data:::::::::::::",data);**

**});**

**}**

**}**

**Exp-11**

**Design Single Page Application with different menu items using react.**

open react project week11and open src folder Create one folder name pages

create this files **Layout.js,Layout.css,Home.js,Contact.js, Blogs.js and NoPage.js**

** Layout.js**

**1. import './Layout.css';**

**2. import { Outlet, Link } from "react-router-dom";**

**3.**

**4. const Layout = () => {**

**5. return (**

**6. <>**

**7.**

**8. <nav className="App-header">**

**9. <ul>**

**10. <li className="logo">**

**11. <h1>MyWorld</h1>**

**12. </li>**

**13. <li>**

**14. <Link to="/" className="no">Home</Link>**

**15. </li>**

**16. <li>**

**17. <Link to="/blogs" className="no">Blogs</Link>**

**18. </li>**

**19. <li>**

**20. <Link to="/contact" className="no">Contact</Link>**

**21. </li>**

**22. </ul>**

**23. </nav>**

**24.**

**25. <Outlet />**

**26.27. </>**

**28. )**

**29.};**

**30.**

**31.export default Layout;**

** Layout.css**

**1. .App-header{background-color:aqua;}**

**2. li{**

**3. list-style: none;**

**4. }**

**5. ul {**

**6. display: flex;**

**7. justify-content: flex-start;**

**8. gap: 20px;**

**9. height:50px;**

**10.}**

**11.**

**12..logo{**

**13. line-height:10px ;**

**14.**

**15.}**

**16.**

**17..no{**

**18. text-decoration: none;**

**19. line-height:50px ;**

**20. font-weight: bold;**

**21.**

**22.}**

**23.**

** Home.js**

**1. const Home = () => {**

**2. return <h1>Home</h1>;**

**3. };**

**4.**

**5. export default Home;**

** Contact.js**

**1. const Contact = () => {**

**2. return <h1>Contact Me</h1>;**

**3. };**

**4.**

**5. export default Contact;**

** Blogs.js**

**1. const Blogs = () => {**

**2. return <h1>Blog Articles</h1>;**

**3. };**

**4.**

**5. export default Blogs;**

** NoPage.js1. const NoPage = () => {**

**2. return <h1>404</h1>;**

**3. };**

**4.**

**5. export default NoPage;**

**Open src folder write code inside index.js**

** index.js**

**1. import React from 'react';**

**2. import ReactDOM from 'react-dom/client';**

**3. import './index.css';**

**4.**

**5. import reportWebVitals from './reportWebVitals';**

**6. import { BrowserRouter, Routes, Route } from "react-router-dom";**

**7. import Layout from "./pages/Layout";**

**8. import Home from "./pages/Home";**

**9. import Blogs from "./pages/Blogs";**

**10.import Contact from "./pages/Contact";**

**11.import NoPage from "./pages/NoPage";**

**12.**

**13.const root = ReactDOM.createRoot(document.getElementById('root'));**

**14.export default function App1() {**

**15. return (**

**16. <BrowserRouter>**

**17. <Routes>**

**18. <Route path="/" element={<Layout />}>**

**19. <Route index element={<Home />} />**

**20. <Route path="blogs" element={<Blogs />} />**

**21. <Route path="contact" element={<Contact />} />**

**22. <Route path="\*" element={<NoPage />} />**

**23. </Route>**

**24. </Routes>**

**25. </BrowserRouter>**

**26. );**

**27.}**

**28.**

**29.root.render(**

**30. <React.StrictMode>**

**31. <App1 />**

**32.**

**33. </React.StrictMode>**

**34.);**

**35.**

**36.reportWebVitals();**