

**making context aware apps**

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**1:Google maps program code**

Css code

agm-map{

  height: 400px;

  width:400px;

}

.title{

  text-align: center;

}

.map{

  display: block;

  margin-left: auto;

  margin-right: auto;

}

Html code

<h1 class="title">Google maps</h1>

<agm-map [latitude]="latitude" [longitude]="longitude" (mapClick)="onLocation($event)" class="map">

  <agm-marker [latitude]="latitude" [longitude]="longitude">

  </agm-marker>

</agm-map>

<div class="input">

  <input type="text" class="inputValue" placeholder="Enter city">

  <input type="submit" value="Sumbit" class="button">

</div>

<div class="display">

  <h2 class="city"></h2>

  <p class="about"></p>

  <p class="weath"></p>

</div>

typescript code

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

@Component({

  selector: 'app-root',

  templateUrl: './app.component.html',

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'context-aware-app';

  latitude= 25.416868;

  longitude=68.274307;

  onLocation(event){

    this.latitude= event.coords.lat;

    this.longitude= event.coords.lng;

  }

}

Angular module code where google maps api is used

import { BrowserModule } from '@angular/platform-browser';

import { NgModule } from '@angular/core';

import { AgmCoreModule} from '@agm/core';

import { AppComponent } from './app.component';

@NgModule({

  declarations: [

    AppComponent

  ],

  imports: [

    BrowserModule,

    AgmCoreModule.forRoot({

      apiKey: 'AIzaSyDIeH-GMff34BLbAPKmHWHgw1c5T3LBSe4'

    })

  ],

  providers: [],

  bootstrap: [AppComponent]

})

export class AppModule { }

**2:weather app code**

css

.input{

    text-align: center;

    margin: 100px 0;

  }

  input[type="text"]{

    height: 47px;

    width:  570px;

    background: white;

    border-radius: 2px;

    font-size: 20px;

    font-weight: bold;

  }

  input[type="submit"]{

    height: 53px;

    width:  100px;

    background: white;

    border-radius: 2px;

    font-size: 20px;

    font-weight: bold;

  }

  .display{

    text-align: center;

  }

Html  
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

  <link rel="stylesheet" href="wather.css"

</head>

<body>

    <div class="input">

        <input type="text" class="inputValue" placeholder="Enter city">

        <input type="submit" value="Sumbit" class="button">

      </div>

      <div class="display">

        <h2 class="city"></h2>

        <p class="about"></p>

        <p class="weath"></p>

      </div>

      <script src="weather.js"></script>

</body>

</html>

javaScript

var button=document.querySelector('.button')

var input=document.querySelector('.inputValue')

var city=document.querySelector('.city')

var about=document.querySelector('.about')

var weath=document.querySelector('.weath')

button.addEventListener('click',function(){

    fetch(' https://api.openweathermap.org/data/2.5/weather?q='+input.value+'&appid=d6d6d00ed1e1604aa4f8a53858425dc7')

    .then(resp=> resp.json())

    .then(data=> {

        var cityName= data['name'];

        var weathVal=data['main']['temp'];

        var aboutVal=data['weather'][0]['description'];

        city.innerHTML=cityName;

        weath.innerHTML=weathVal;

        about.innerHTML=aboutVal;

    })

    .catch(err=> alert('wrong city name'));

})

**3:Program for getting current time and date**

Html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <button style="size: 20px;">Show</button>

     <h1 style="text-align: center;">Date will show here</h1>

    <h2 style="text-align: center;">time will show here</h2>

    <script src="component.js"></script>

</body>

</html>

javaScript

var btnShow= document.querySelector('button');

var output=document.querySelector('h1');

var time=document.querySelector('h2');

btnShow.addEventListener('click', ()=>{

    let today= new Date();

    let month=today.getMonth() +1;

    let year=today.getFullYear();

    let date=today.getDate();

    let current\_date=`${month}/ ${date}/ ${year}`;

    output.innerText=current\_date;

    let hours=addZero( today.getHours());

    let minutes=addZero (today.getMinutes());

    let seconds=addZero( today.getSeconds());

    let current\_time=`${hours}/ ${minutes}/ ${seconds}`;

    time.innerText=current\_time;

});

function addZero(num){

    return num<10 ? `0${num}`: num;

}