CONCEPT FOR MAKE WEATHER FORECAST

1. export {default as BackgroundLay} from './BackgroundLay';- this Syntax is used to import default component that are export from BackgroundLay file and then immediate export.
2. const local="en";- local is a variable that contain a English language.
3. new Date()- new Date() is a method that return a current date;
4. useEffect() - useEffect() is a hook that are used for setting up timer,fetch data from api,update dom;
5. const timer=setInterval(()=>{setDate(newDate())},60\*1000) – timer is a variable ,there every 60 second the date are change.
6. clearInterval(timer) – this method is used to clear date when new date assign in every 60 second.
7. const day=today.toLocaleDateString(local,{weekday:"long"});

day is a variable , today contain a current date and toLocalDateString() is a method that convert date to string acccording to a format and weekday means like convert Sunday,Monday,Tuesday and so on.

1. const mounthDay=today.getDate(); -getDate() is a method that return day of munth like 23,24.
2. const date='${day}, ${mounthDay}, ${mounth})}\n\n'

day is a variable that are a format like Monday.24.september.

1. const time=today.toLocaleTimeString(local,{hour:'numeric',hour12:true,minute:'numeric'})

toLocalTimeString() is a method that return a time format and is formatted into 12 hour format.

1. UseContext()- useContext() is a hook that access data from context functional component and shared data across multiple component.
2. Axios – axios is popular javascript liabrary that are used to make HTTP request from the browser or node.js . it simplify the process of fetch data from api ,handling error and performing action like get,post,delete.

12.<input onKeyUp={(e)=>{

            if(e.key==='Enter'){

          //there are logic          }

onKeyUp is a event handler method when a press any button

1. We need to install axios liabrary (npm I axios)
2. const stateContext=createContext();

using createContext() we can create a new context,this context allow data to be shared component without pass a props.

1. const stateContextProvider=(children)

it a function that acts as a context provider,and children is a component that wrapped in function.

1. Weather , values, place , location is in useState() hook :
   1. Weather: it store weather as an object.
   2. Values: it store input values
   3. Location: it represent a user define location.
   4. Place:it store a place default place is Kolkata.

const options={

            method:'GET',

<url:'https://visual-crossing->weather.p.rapidapi.com/forecast',

           params:{

                contentType:'json',

                unitGroup:'metric',

                aggregateHours:'24',

                location:place,

                shortColumnNames:0,

          },

           header:{

                'x-rapidapi-host': 'visual-crossing-weather.p.rapidapi.com',

                'x-rapidapi-key': 'Sign Up for Key',

        }

      }

This all are get when I copy api from ‘rapidapi.com’.this are all about api information

1. const responce=await axios.request(options);

this lines make api request using axios request() method.

await pause the function execuation until the process is complete and response store in response variable.

1. Const thisData=Object.values(response.data.location)[0];

Object.values(response.data.location) Extract all data from location object within the response and [0] retrive the frist value of array of values.

1. setLocation(thisData.address)

update the location state like city,state.

1. setValues(thisData.values)

update the values state like temperature,humidity

1. setWeather(thisData.weather[0]);-update the weather state like forecast , current weather and [0] retrive the frist values.
2. **useEffect(()=>{**

**fetchWeather()**

**},[place])**

useEffect() is a hook that are used to perform side effect in our functional component and place is a dependency array ,this syntax is used for fetch data of below function trigger when the place are change.

1. return(

stateContext.Provider value={{

weather,

setPlace,

values,t

hisLocationocation

}}>

{children}

</stateContext.Provider>

)------this is a state context provider that supply value and function to all component that wrapped in children.

export const useStateContext=()=>{

    useContext(stateContext)

}

This is a custom hook called usedStateContext() that provide stateContext();