iOS native mobile coursework

```
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//
   AirPollutionModelData.swift
//
// CourseWork2Starter
//
// Created by Dilan Jayamanne on 02/04/23.
//
import
// MARK: - AirPollutionModelData
struct AirPollutionModelData Codable
    let coord Coord
    let list    AirPollutionDataList
// MARK: - Coord
struct Coord Codable
    let lon Double
    let lat Double
// MARK: - AirPollutionDataList
struct AirPollutionDataList Codable
    let dt Int
    let main AirPollutionDataMain
    let components AirPollutionDataComponents
// MARK: - AirPollutionDataMain
struct AirPollutionDataMain Codable
    let aqi Int
// MARK: - AirPollutionDataComponents
struct AirPollutionDataComponents Codable
    let co Double
   let no Double
```

```
let no2 Double
   let o3 Double
   let so2 Double
   let pm2 5 Double
   let pm10 Double
   let nh3 Double
//
//
  PollutionView.swift
// Coursework2
//
// Created by GirishALukka on 30/12/2022.
//
import
struct PollutionView View
   // @EnvironmentObject and @State varaibles here
   //@EnvironmentObject var PollutionData:
AirPollutionModelData
   @EnvironmentObject var modelData ModelData
   @State var locationString String "Location
loading..."
   var body some View
       ZStack
           // Use ZStack for background images
           Image "background"
                resizable
                 ignoresSafeArea
                blur radius 7
           VStack
               Text " locationString "
                    padding EdgeInsets top 20 leading
10 bottom 50 trailing 10
                    font title
                    foregroundColor black
                    shadow color black radius 0.5
                    multilineTextAlignment center
```

ScrollView VStack spacing 30

Text " Int modelData forecast current temp °C" padding font largeTitle

foregroundColor modelData forecast current feelsLike 15 Color red 30.0 255 green 41.0 255 blue 193.0 255 Color red 186.0 255 green 75.0 255 blue 15.0 255

background

RoundedRectangle cornerRadius 10

foregroundColor modelData forecast current feelsLike
15 Color blue opacity 0.1 Color orange opacity 0.1

HStack

AsyncImage url URL string "https://openweathermap.org/img/wn/ modelData forecast current weather 0 @2x.png" frame width 70 height

70

Text " modelData forecast current weather 0 rawValue "

padding
font title2
foregroundColor black
shadow color black

radius 0.5

Text "Feels Like:
Int modelData forecast current feelsLike °C"
padding

foregroundColor modelData forecast current feelsLike 15 Color red 30.0 255 green 41.0 255 blue 193.0 255 Color red 186.0 255 green 75.0 255 blue 15.0 255

background

RoundedRectangle cornerRadius 10

```
foregroundColor modelData forecast current feelsLike
15 Color blue opacity 0.1 Color orange opacity 0.1
                       Text "Air Quality
Data:" bold font
                    title2
                       HStack
                           VStack
                               Image "so2"
                                    resizable
 aspectRatio contentMode fit
 clipShape RoundedRectangle cornerRadius 10
                               Text " String format
"%.2f" modelData airPollution list 0
                                                 so2
0.0
                           VStack
                               Image "no"
                                    resizable
 aspectRatio contentMode
                        fit
 clipShape RoundedRectangle cornerRadius 10
                               Text "
                                        String
"%.2f" modelData airPollution list 0
                                                 no2
0.0
                           VStack
                               Image "voc"
                                    resizable
 aspectRatio contentMode
                         fit
 clipShape RoundedRectangle cornerRadius 10
                               Text "
                                        String
"%.2f" modelData airPollution list 0
                                                 CO
0.0
```

VStack

```
Image "pm"
                                    resizable
 aspectRatio contentMode fit
 clipShape RoundedRectangle cornerRadius 10
                              Text " String
"%.2f" modelData airPollution list 0
                                                 pm10
0.0
         onAppear
           Task init
               let
                      try await
modelData loadAirPollutionData
               self locationString await
getLocFromLatLong lat modelData forecast lat lon
modelData forecast lon
struct Pollution_Previews PreviewProvider
    static var previews some View
       PollutionView environmentObject ModelData
//
  LocationHelper.swift
//
//
  Coursework2
//
// Created by G Lukka.
//
import
import
```

```
func getLocFromLatLong lat Double lon Double async
String
   var
                      String
                   CLPlacemark
   var
              CLLocationCoordinate2D
CLLocationCoordinate2D latitude longitude
   let CLGeocoder CLGeocoder
   let     CLLocation     CLLocation latitude
      latitude longitude longitude
   do
                   try await
       if
                   count 0
           if
                          0
                                   isEmpty
                                         0
             else
                                          0 locality
  "No City"
           return
     catch
       print "Reverse geodecoe fail:
       localizedDescription "
                       "No City, No Country"
       return
   return "Error getting Location"
//
// WindDirHelper.swift
// Coursework2
//
// Created by G Lukka.
```

```
//
import
func convertDegToCardinal deg Int String
 "N" "NNE" "NE" "ENE" "E" "ESE" "SE" "SSE" "S" "SSW" "SW"
 "WSW" "W" "WNW" "NW" "NNW" "N"
   return
                     Int round Double 360
22.5 nextDown 1
import
class ModelData ObservableObject
   @Published var forecast Forecast
   @Published var userLocation String
   @Published var airPollution AirPollutionModelData
   init
       self forecast load "london.json"
   // function to load weather data from API
   func loadData lat Double lon Double async throws
   Forecast
             URL string
"https://api.openweathermap.org/data/3.0/onecall?lat=
            &units=metric&appid=85b4fd8ba41c782d11db5c52
f15fcbf1"
       let
                    URLSession configuration default
                     try await data from
       let
       do
           //print(data)
           let
                             try
JSONDecoder decode Forecast self from
```

main async self forecast

return
catch
throw

// function to load air pollution data from API
func loadAirPollutionData async throws

guard let forecast lat let
forecast lon else
fatalError "Couldn't find in lat & lon in
forcast data."

let URL string
"https://api.openweathermap.org/data/2.5/air_pollution?la
t= &lon= &appid=85b4fd8ba41c782d11db5c52f15fcbf
1"

let URLSession configuration default

do

let try

JSONDecoder decode AirPollutionModelData self from

main async self airPollution

"testing" **self** airPollution list 0

catch throw

let Data

```
withExtension nil
       else
          fatalError "Couldn't find in main
bundle."
       do
               try Data contentsOf
         catch
          fatalError "Couldn't load
                                           from
main bundle:\n"
       do
          let JSONDecoder return try decode
                                    self
from
         catch
         fatalError "Couldn't parse
self :\n
                                            as
// This file was generated from JSON Schema using
quicktype, do not modify it directly.
// To parse the JSON, add this file to your project and
do:
//
// let forecast = try?
newJSONDecoder().decode(Forecast.self, from: jsonData)
import
// MARK: - Forecast
struct Forecast Codable Identifiable
   let id UUID
   let lat lon Double
   let timezone String
   let timezoneOffset Int
   let current Current
   let minutely Minutely
   let hourly Current
```

```
let daily Daily
   enum CodingKeys String CodingKey
       case lat lon timezone
       case timezoneOffset "timezone offset"
       case current minutely hourly daily
// MARK: - Current
struct Current Codable Identifiable
   let id UUID
   let dt Int
   let sunrise sunset Int
   let temp feelsLike Double
   let pressure humidity Int
   let dewPoint uvi Double
   let clouds visibility Int
   let windSpeed Double
   let windDea Int
   let weather Weather
   let windGust pop Double
   let rain Rain
   enum CodingKeys String CodingKey
       case dt sunrise sunset temp
       case feelsLike "feels_like"
       case pressure humidity
       case dewPoint "dew_point"
       case uvi clouds visibility
       case windSpeed "wind_speed"
       case windDeg "wind deg"
       case weather
       case windGust "wind_gust"
       case pop rain
// MARK: - Rain
struct Rain Codable
   let the1H Double
   enum CodingKeys String CodingKey
       case the1H "1h"
```

```
// MARK: - Weather
struct Weather Codable
    let id Int
    let main Main
    let weatherDescription Description
    let icon String
    enum CodingKeys String CodingKey
        case id main
        case weatherDescription "description"
        case icon
// MARK: - Main
enum Main String Codable
    case clear "Clear"
    case clouds "Clouds"
   case rain
case mist "Rain"
"Mist"
   case smoke "Smoke"
case haze "Haze"
case dust "Dust"
    case fog "Fog"
    case sand "Sand"
    case ash "Ash"
    case squall "Squall"
case tornado "Tornado"
    case snow "Snow"
    case drizzle "Drizzle"
    case thunderstorm "Thunderstorm"
// MARK: - Description
enum Description String Codable
    case brokenClouds "broken clouds"
    case clearSky "clear sky"
    case fewClouds "few clouds"
    case lightRain "light rain"
    case moderateRain "moderate rain"
    case overcastClouds "overcast clouds"
    case scatteredClouds "scattered clouds"
    case thunderstormWithLightRain "thunderstorm with
light rain"
    case thunderstormWithRain "thunderstorm with rain"
    case thunderstormWithHeavyRain "thunderstorm with
heavy rain"
```

```
case lightThunderstorm "light thunderstorm"
   case thunderstorm "thunderstorm"
   case heavyThunderstorm "heavy thunderstorm"
   case raggedThunderstorm "ragged thunderstorm"
   case thunderstormWithLightDrizzle "thunderstorm
with light drizzle"
   case thunderstormWithDrizzle "thunderstorm with
drizzle"
   case thunderstormWithHeavyDrizzle "thunderstorm
with heavy drizzle"
   case heavyIntensityDrizzle "heavy intensity
drizzle"
   case lightIntensityDrizzleRain "light intensity
drizzle rain"
   case drizzleRain "drizzle rain"
   case heavyIntensityDrizzleRain "heavy intensity
drizzle rain"
   case showerRainAndDrizzle "shower rain and drizzle"
   case heavyShowerRainAndDrizzle "heavy shower rain
and drizzle"
   case showerDrizzle "shower drizzle"
   case heavyIntensityRain "heavy intensity rain"
   case veryHeavyRain "very heavy rain"
   case extremeRain "exteme rain"
   case freezingRain "freezing rain"
   case lightIntensityShowerRain "light intensity
shower rain"
   case showerRain "shower rain"
   case heavyIntensityShowerRain "heavy intensity
shower rain"
   case raggedShowerRain "ragged shower rain"
   case lightSnow "light snow"
   case Snow "Snow"
   case HeavySnow "Heavy snow"
   case Sleet "Sleet"
   case LightShowerSleet "Light shower sleet"
   case ShowerSleet "Shower sleet"
   case LightRainAndSnow "Light rain and snow"
   case RainAndSnow "Rain and snow"
   case LightShowerSnow "Light shower snow"
   case ShowerSnow "Shower snow"
   case HeavyShowerSnow "Heavy shower snow"
   case mist "mist"
   case Smoke "Smoke"
   case Haze "Haze"
   case sandDustWhirls "sand/dust whirls"
```

```
case fog "fog"
   case sand "sand"
   case dust "dXust"
   case volcanicAsh "volcanic ash"
   case squalls "squalls"
   case tornado "tornado"
   case fewClouds1125 "few clouds: 11-25%"
   case scatteredClouds2550 "scattered clouds: 25-50%"
   case brokenClouds5184 "broken clouds: 51-84%"
   case overcastClouds85100 "overcast clouds: 85-100%"
// MARK: - Daily
struct Daily Codable Identifiable
   let id UUID
   let dt sunrise sunset moonrise Int
   let moonset Int
   let moonPhase Double
   let temp Temp
   let feelsLike FeelsLike
   let pressure humidity Int
   let dewPoint windSpeed Double
   let windDea Int
   let windGust Double
   let weather Weather
   let clouds Int
   let pop Double
   let rain Double
   let uvi Double
   enum CodingKeys String CodingKey
       case dt sunrise sunset moonrise moonset
       case moonPhase "moon_phase"
       case temp
       case feelsLike "feels_like"
       case pressure humidity
       case dewPoint "dew point"
       case windSpeed "wind_speed"
       case windDeg "wind_deg"
       case windGust "wind_gust"
       case weather clouds pop rain uvi
```

```
// MARK: - FeelsLike
struct FeelsLike Codable
```

```
// MARK: - Temp
struct Temp Codable
   let day min max night Double
   let eve morn Double
// MARK: - Minutely
struct Minutely Codable
   let dt Int
   let precipitation Double
//
// NavBar swift
// Coursework2
// Created by G Lukka.
//
import
struct NavBar View
   @EnvironmentObject var modelData ModelData
    // Tab view accent color changes to orange if the
temp is > 50 otherwise its blue
    var body some View
        TabView
          Home
                tabItem
                   Label "City" systemImage
"magnifyingglass"
            CurrentWeatherView
                tabItem
                   Label "WeatherNow" systemImage
"sun.max"
           HourlyView
```

let day night eve morn Double

```
tabItem
                  Label "HourlyView" systemImage
"clock.fill"
           ForecastView
                tabItem
                  Label "ForecastView" systemImage
"calendar"
           PollutionView
                tabItem
                  Label "PollutionView" systemImage
"aqi.high"
         onAppear
           UITabBar appearance isTranslucent false
        accentColor modelData forecast current temp
15 Color blue Color orange
struct NavBar_Previews PreviewProvider
   static var previews some View
       NavBar environmentObject ModelData
//
// DailyView.swift
// Coursework2
//
// Created by G Lukka.
//
import
struct DailyView View
   var day Daily
```

```
HStack
           AsyncImage url URL string
"https://openweathermap.org/img/wn/ day weather 0
@2x.png"
                frame width 70 height 70 alignment
 leading
           Spacer
           VStack
Text " day weather 0
                                       rawValue "
                   font subheadline
               Text Date timeIntervalSince1970
              Int day dt formatted dateTime weekda
y day
                    font subheadline
           Spacer
           // color changes to orange if the temperature
> 15
Text " Int day temp max °C/ Int day temp min °C"
                foregroundColor day temp max 15
Color red 30.0 255 green 41.0 255 blue 193.0 255
Color red 186.0 255 green 75.0 255 blue 15.0 255
                background
                   RoundedRectangle cornerRadius 10
                       foregroundColor day temp max
15 Color blue opacity 0.1 Color orange opacity 0.1
                font subheadline
                frame alignment trailing
        padding
        foregroundColor black
        frame maxWidth infinity alignment leading
```

var body some View

```
background RoundedRectangle cornerRadius
10 foregroundColor white opacity 0.7
         shadow color white radius 0.5
struct DailyView Previews PreviewProvider
    static var day ModelData forecast daily
    static var previews some View
       DailyView day day 0
//
// SearchView.swift
// CWK2_23_GL
//
// Created by GirishALukka on 11/03/2023.
//
import
import
struct SearchView View
   @EnvironmentObject var modelData ModelData
    @Binding var isSearchOpen Bool
    @State var location
    @Binding var userLocation String
    var body some View
        ZStack
//
             Blur(style: .systemUltraThinMaterial)
//
                              .ignoresSafeArea()
             RoundedRectangle(cornerRadius: 20)
//
//
                                      .fill(Color.teal)
                                      .opacity(0.8)
//
                                      ignoresSafeArea()
//
           // color changes to orange if the temperature
> 15
```

```
if modelData forecast current feelsLike
15
               Color blue opacity 0.3
background ultraThinMaterial opacity 0.7
                    ignoresSafeArea
            else
               Color orange opacity 0.3
 background ultraThinMaterial opacity 0.7
                    ignoresSafeArea
           VStack
               HStack
                   TextField "Enter New Location" text
self $location onCommit
            geocodeAddressString location
CLGeocoder
                   in
                           if let
           first location
                          coordinate latitude
                              let
           first location coordinate longitude
                               Task
                                   let try await
modelData loadData lat
                            lon
                                   userLocation
location
```

isSearchOpen toggle

shadow color blue radius 10 cornerRadius 10 fixedSize font custom "Ariel" size 26

textFieldStyle RoundedBorderTextFieldStyle cornerRadius 15

Button action

CLGeocoder geocodeAddressString location
in

if let

first location coordinate latitude

first location coordinate longitude

Task

let try await

modelData loadData lat lon

userLocation

location

isSearchOpen toggle

Image systemName

"magnifyingglass"

foregroundColor white font system size 26 padding background

RoundedRectangle cornerRadius 20

fill modelData forecast current temp 15
Color blue opacity 0.7
Color orange opacity 0.7
shadow color
Color black opacity 0.3
radius 10 x 0 y 5

Button action

```
self isSearchOpen toggle
                             label
                              Text "Cancel"
                                   font title2
                           padding
                            foregroundColor white
                           background
RoundedRectangle cornerRadius 20
fill modelData forecast current temp 15
Color blue opacity 0.7 Color orange opacity 0.7
                                  shadow color
Color black opacity 0.3 radius 10 x 0 y 5
// Custom blur effect
struct Blur UIViewRepresentable
   var style UIBlurEffect Style
 systemUltraThinMaterial
   func makeUIView context Context
UIVisualEffectView
       let UIVisualEffectView effect
UIBlurEffect style style
       return
                             UIVisualEffectView
   func updateUIView
context Context
//
// HomeView.swift
// CWK2 23 GL
```

```
//
// Created by GirishALukka on 10/03/2023.
//
import
import
struct Home View
    @EnvironmentObject var modelData ModelData
    @State var isSearchOpen Bool false
   @State var userLocation String
    var body some View
        ZStack
            Image "background2"
                resizable
                 ignoresSafeArea
                blur radius 7
            VStack
                Button
                    self isSearchOpen toggle
                  label
                    HStack spacing 8
                            Image systemName
"location.fill"
                            font system size 24
.foregroundColor(.white)
                           Text "Change Location"
                                bold
                                font system size 30
//
.foregroundColor(.white)
                     padding vertical 12
                         padding horizontal 16
                        foregroundColor white
                        background
RoundedRectangle cornerRadius 20
```

```
fill modelData forecast current temp 15
Color blue opacity 0.7 Color orange opacity 0.7
                               shadow color
Color black opacity 0.3 radius 10 x 0 y 5
                sheet isPresented $isSearchOpen
                   SearchView isSearchOpen
$isSearchOpen userLocation $userLocation
 background BackgroundClearView
                 padding
               ScrollView
                   VStack
                       Text userLocation
                           font title
                           foregroundColor black
                           shadow color black
radius 0.5
multilineTextAlignment center
                       Text Date timeIntervalSince1970
              Int modelData forecast current dt
0
formatted dateTime year hour month day
                        padding
                        font largeTitle
                        foregroundColor black
                        shadow color black radius 1
                        padding EdgeInsets top 10
leading 10 bottom 20 trailing 10
                       Spacer
                       Text "Temp:
  Int modelData forecast current temp
                           padding
                           font title2
```

```
radius 0.5
```

foregroundColor modelData forecast current feelsLike 15 Color red 30.0 255 green 41.0 255 blue 193.0 255 Color red 186.0 255 green 75.0 255 blue 15.0 255

background

RoundedRectangle cornerRadius 10

foregroundColor modelData forecast current feelsLike

15 Color blue opacity 0.1 Color orange opacity 0.1

Text "Humitidy:

Int modelData forecast current humidity %"

padding

font title2

foregroundColor black
shadow color black

radius 0.5

Text "Pressure:

Int modelData forecast current pressure hpa"
padding
font title2
foregroundColor black
shadow color black

radius 0.5

HStack

AsyncImage url URL string "https://openweathermap.org/img/wn/ modelData forecast current weather 0 @2x.png"

frame width 70 height

70

Text " modelData forecast current weather 0 rawValue "

padding
font title2
foregroundColor black
shadow color black

radius 0.5

Spacer

onAppear
Task init
self userLocation await
getLocFromLatLong lat modelData forecast lat lon
modelData forecast lon
self modelData userLocation
userLocation

struct Home_Previews PreviewProvider
 static var previews some View
 Home environmentObject ModelData

return

func updateUIView _ UIView context Context

```
//
  Hourly.swift
// Coursework2
//
// Created by G Lukka.
//
import
struct HourlyView View
   @EnvironmentObject var modelData ModelData
   @State var locationString String
   var body some View
       ZStack
           Image "background"
                resizable
                ignoresSafeArea
                blur radius 7
           VStack
               Text " locationString " font title
                    foregroundColor black
                    shadow color black radius 0.5
                    multilineTextAlignment center
                    padding top
               List
                   // color changes to orange if the
temperature > 15
                   ForEach modelData forecast hourly
    in
                       HourCondition current
 listRowBackground modelData forecast current temp
                                                    15
 Color blue opacity 0.1
Color orange opacity 0.1
                scrollContentBackground hidden
         onAppear
           Task init
```

```
self locationString await
getLocFromLatLong lat modelData forecast lat lon
modelData forecast lon
```

```
struct Hourly_Previews PreviewProvider
   static var previews some View
       HourlyView environmentObject ModelData
//
  HourCondition.swift
//
// Coursework2
//
// Created by G Lukka.
//
import
struct HourCondition View
   var current Current
   var body some View
       ZStack
           HStack spacing 8
               Text Date timeIntervalSince1970
              Int current dt formatted dateTime ho
ur weekday
                    font headline
                    frame alignment leading
               Spacer
               AsyncImage url URL string
"https://openweathermap.org/img/wn/ current weather 0
   @2x.png"
                    frame width 70 height 70
```

```
Text " current weather 0
                                            rawValue "
                    font subheadline
                    frame alignment leading
               Spacer
               // color changes to orange if the
temperature > 15
               Text " Int current temp °C"
                   foregroundColor current temp 15
Color red 30.0 255 green 41.0 255 blue 193.0 255
Color red 186.0 255 green 75.0 255 blue 15.0 255
                    background
                       RoundedRectangle cornerRadius
10
                            foregroundColor current temp
  15 Color blue opacity 0.1
Color orange opacity 0.1
                    font subheadline
                    frame alignment trailing
            padding
            foregroundColor black
            frame maxWidth infinity alignment
 leading
            background RoundedRectangle cornerRadius
10 foregroundColor white opacity 0.7
            shadow color white radius 0.5
struct HourCondition Previews PreviewProvider
   static var hourly ModelData forecast hourly
   static var previews some View
       HourCondition current hourly 0
//
// Forecast.swift
// Coursework2
```

```
//
// Created by G Lukka.
//
import
struct ForecastView View
   @EnvironmentObject var modelData ModelData
   @State var locationString String "Location
loading..."
   var body some View
       ZStack
           Image "background2"
                resizable
                ignoresSafeArea
                blur radius 7
           VStack
               Text " locationString " font title
                    foregroundColor black
                    shadow color black radius 0.5
                    padding EdgeInsets top 20 leading
10 bottom 10 trailing 10
               List
                   ForEach modelData forecast daily
   in
                       DailyView day
 listRowBackground modelData forecast current temp 15
 Color blue opacity 0.2
Color orange opacity 0.2
                scrollContentBackground hidden
        onAppear
           Task init
               self locationString await
getLocFromLatLong lat modelData forecast lat lon
modelData forecast lon
```

```
struct Forecast Previews PreviewProvider
    static var previews some View
       ForecastView environmentObject ModelData
//
// Conditions.swift
// Coursework2
//
// Created by G Lukka.
//
import
struct CurrentWeatherView View
   @EnvironmentObject var modelData ModelData
   @State var locationString String "Location
loading..."
    var body some View
       ZStack
           Image "background2"
                resizable
                ignoresSafeArea
                blur radius 7
           VStack
               Text " locationString "
                    font title
                    foregroundColor black
                    shadow color black radius 0.5
                    multilineTextAlignment center
                    padding
```

```
ScrollView
                   VStack spacing 30
                       // Text color changes according
to the temperature
                                               ōC...
Text " Int modelData forecast current temp
                            padding
                            font system size
 foregroundColor modelData forecast current feelsLike
15 Color red 30.0 255 green 41.0 255 blue
193.0 255 Color red 186.0 255 green 75.0 255 blue
15.0 255
                            background
RoundedRectangle cornerRadius 10
foregroundColor modelData forecast current feelsLike
15 Color blue opacity 0.1 Color orange opacity 0.1
                       HStack
                           AsyncImage url URL string
"https://openweathermap.org/img/wn/ modelData forecast
current weather 0
                       @2x.png"
                                frame width 70 height
70
Text " modelData forecast current weather 0
         rawValue "
                                padding
                                font title2
                                foregroundColor black
                                shadow color black
radius 0.5
                       // color changes to orange if the
temperature > 15
                       Text "Feels Like:
   Int modelData forecast current feelsLike <sup>o</sup>C" paddi
ng
```

foregroundColor modelData forecast current feelsLike 15 Color red 30.0 255 green 41.0 255 blue 193.0 255 Color red 186.0 255 green 75.0 255 blue 15.0 255

font Font custom "Helvetica" size 24 background

RoundedRectangle cornerRadius 10

foregroundColor modelData forecast current feelsLike
15 Color blue opacity 0.1 Color orange opacity 0.1

HStack

Text "Wind Speed:

String format "%.0f"
modelData forecast current windSpeed m/s"
Text "Direction:

convertDegToCardinal deg modelData forecast current wi
ndDeg "

HStack

Text "Humidity:
modelData forecast current humidity %"
Spacer
Text "Pressure:
modelData forecast current pressure hPg"
padding

HStack

Label

Text " Date timeIntervalSince1970

Int modelData forecast current sunrise
formatted dateTime hour minute
icon

Image systemName
"sun.and.horizon.fill" foregroundColor yellow

Label

"sun.and.horizon.fill" foregroundColor yellow

padding

padding font title2

foregroundColor black
shadow color black radius 0.5

onAppear
Task init
self locationString await
getLocFromLatLong lat modelData forecast lat lon
modelData forecast lon

import

import

struct ContentView View
 var body some View
 NavBar