The tutorial this week continues from last week – where a location address was converted to CLLocationCoordinate2D, and a map region (MKCoordinateRegion) was created based on these coordinates.

You have been provided with details of some EPL Clubs – clubName, logo, clubLocation, stadium and history. The logo and stadium are image files that must be saved in the *assets* folder of the app – download clubResources.zip and extract the relevant details.

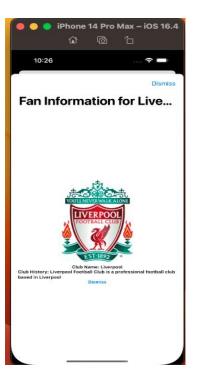
Download clubResources.zip and do as above.

The completed app for this week will function as follows:

App launch screen:



When the user **taps any** club logo in the top "frame", a sheet view with club details will be presented as shown below with a dismiss button to go back to launch screen:





When the user **taps any** row in the bottom "frame", another sheet view with club location on a map will be presented with a dismiss button to go back to launch screen as shown above.

The launch screen design is quite complex in that the club logos are rendered in a horizontal scroll view – to allow many more clubs to be added with a complex tap gesture interaction, revealing a sheet view that shows information about the club that has been tapped. Similarly, clubs in list view in the bottom half too have tap gesture as described in the screen shots.

Guidance on building this app:

- 1. Create a new project, name it EPLClub.
- 2. Create a model (swift file) EPLClub that is a struct to represent EPLClub data.

```
import Foundation
struct EPLClub: Identifiable{
   let id = UUID() // Use UUID directly in the struct
   let clubName: String
   let logo: String
   let clubLocation: String
   let stadium: String
   let history: String
}
```

3. Create a class (swift file) – ClubLocationViewModel that is an ObservableObject as shown below:

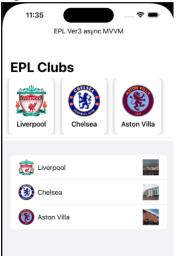
4. Modify ContentView so that it shows a horizontal scrollbar that has each club logo with a name under the logo – this can be thought of as displaying a set of **playing** cards, with each card generated with club logo and name.

Examine the code snippet and see that "club card" is actually a ClubCardView that takes a parameter - club.

Create ClubCardView (like a playing card) – a SwiftUI View file that generates the card that is shown in the scrollview.



Next, add a list view of clubs, below the horizontal scrollview with each row that shows club logo, club name and club stadium as shown below:



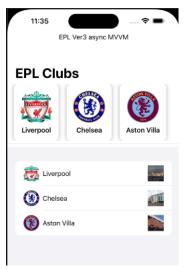
Again, each row is similar to the card that was created earlier, except this is a horizontal profile with an extra image, called ClubRowView

```
Created by girish lukka on 26/07/2023

  其
  □ Club Row View

import SwiftUI
import CoreLocation
import MapKit
struct ClubRowView: View {
    let club: EPLClub
    var body: some View {
        HStack {
             Image(club.logo)
                 .resizable()
                 .frame(width: 40, height:
                      40)
             Text(club.clubName)
             Spacer()
Image(club.stadium)
                  .frame(width: 40, height:
                                                               Liverpool
struct ClubRowView_Previews:
    .
Liverpool")
    static var previews: some View {
   ClubRowView(club: eplClubPV)
    }
```

This completes the build-up of the interface for the launch screen. The app should render showing the clubs without any interaction.



The interaction will be covered in the lecture which you should follow in the seminar to complete the app build.