

Android Assessment

We'd like you to complete our Backend Coding Challenge.

Congratulations on being selected for the code challenge – we're really looking forward to learning more about your skills.

Once the challenge has been completed, we'll arrange a 90 minute interview to talk through the challenge and assess our other key BE skills - Scalability, Resilience, DevOps, Performance, Security, and Software Engineering Practices.



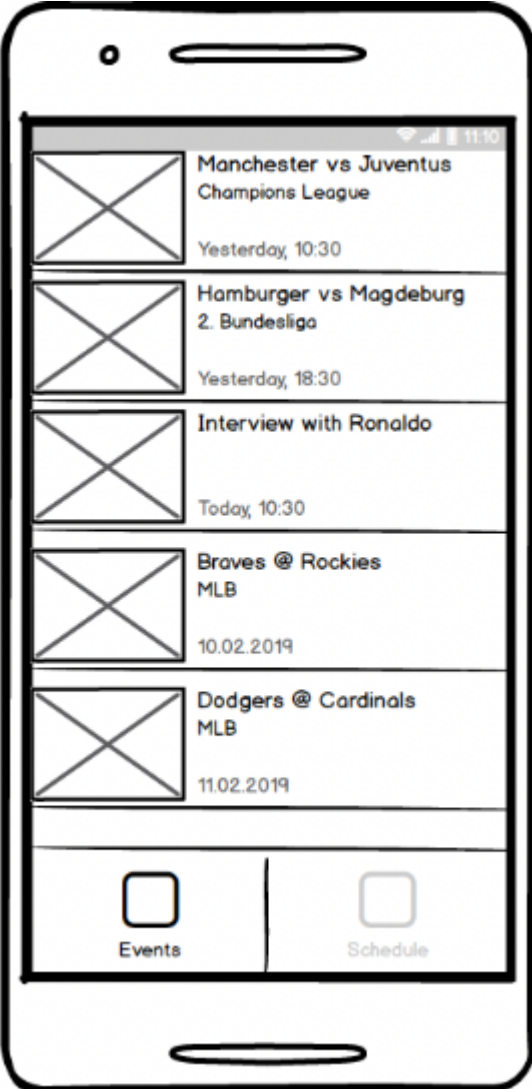
<Functional Requirements/>

There should be two tabs in the app, preferably put in a form of a bottom navigation. The first one should present a list of events and the second one a schedule (EPG).

Remark: some parts of the test are marked as optional. These will give you extra points when we'll be checking your solution. But don't stress if you don't want to do any of these tasks- after all, we have an interview where we can just have a conversation about the missing things.

<Output Requirements/>

Events Screen



Manchester vs Juventus
Champions League
Yesterday, 10:30

Hamburger vs Magdeburg
2. Bundesliga
Yesterday, 18:30

Interview with Ronaldo
Today, 10:30

Braves @ Rockies
MLB
10.02.2019

Dodgers @ Cardinals
MLB
11.02.2019

Events | Schedule

Events screen should present a list of events available to be watched. When any item is tapped, the appropriate video is played on Playback Screen.

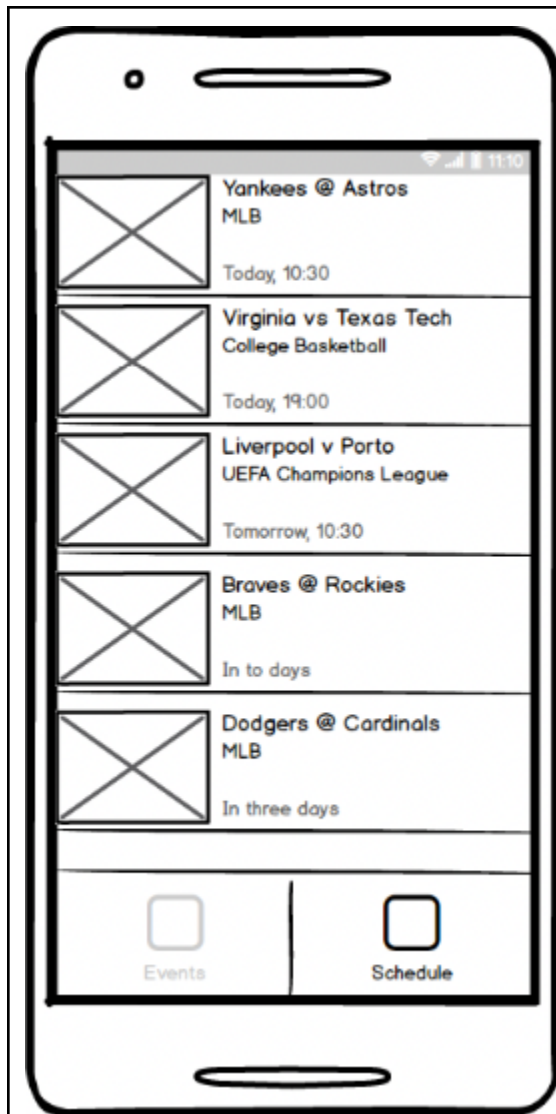
Use the standard APIs to present a list of items provided by our API. Assume that the list can get fairly long (e.g up to 100 items).

Events should be ordered by date in ascending order. Extra points will be awarded for date formatting similar to the one presented in the mockups.

The data can be fetched from:

<https://us-central1-dazn-sandbox.cloudfunctions.net/getEvents>

Schedule Screen



Schedule screen, with a schedule for tomorrow only. It should auto-refresh every 30 seconds.

Assume that the list can get fairly long (e.g up to 100 items). Extra points will be awarded for updating the state of the list without losing its scroll position and without flickering.

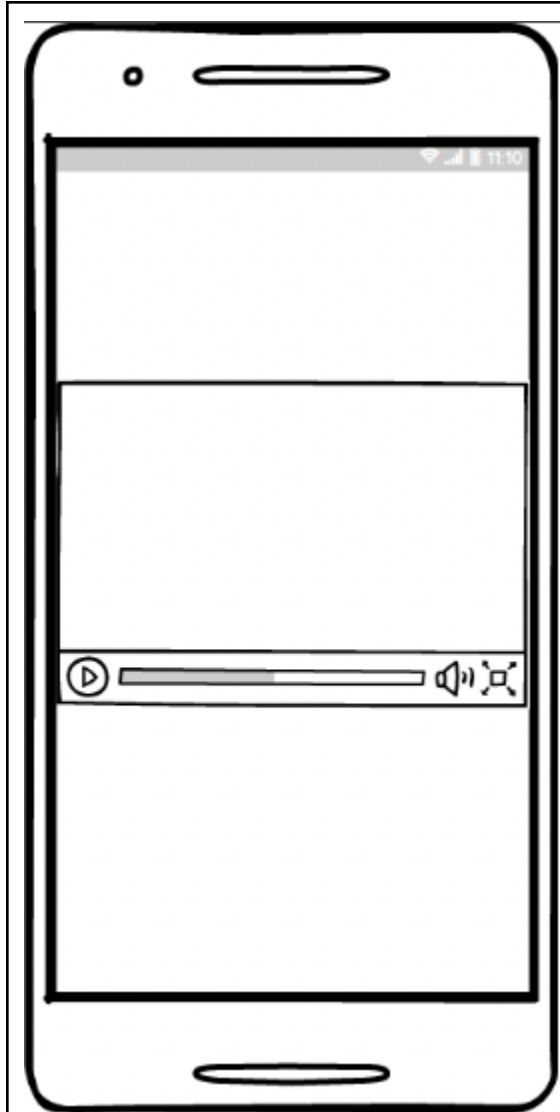
Events should be ordered by date in ascending order.

Thumbnails should be retrieved from the listings feed.

The data can be fetched from:

<https://us-central1-dazn-sandbox.cloudfunctions.net/getSchedule>

Playback Screen (extra points)



Additionally, there should be a Playback Screen, playing a video in the default player. Use whichever player you prefer. The aim is to be able to play the video that is provided in selected event.

Tip: You could use `AVPlayerViewController`.

What are we looking for in the solution (don't stress if you feel you didn't get all the below points right- we have an interview where we can just talk about the stuff you didn't have time to address):

- Clean code
- Kotlin and JAVA knowledge, Kotlin is preferred
- Approach to architecture in a small app
- Object-oriented programming
- SOLID
- Language knowledge and experience
- Basic memory management
- Unit tests
- Testing practices
- QA practices
- REST APIs usage practices
- Handling Activity lifecycle
- We would like to follow your work and see how you work with git-flow. We would also like to do a code review, add our comments and discuss it in the interview. Please provide **public** access to the repo.

Worth mentioning:

- You can choose any libraries you like, the only requirement is that you'd use this library/framework in production.
- The designs are up to you, feel free to change them. Apply the common design patterns popular on your platform. Please make sure the app is usable
- Assume that there would be some other functionalities added to the app in the future
- Ideally, we should be able to checkout and compile the project out of box both on mac or windows. These machines will be setup with the relevant default IDEs.