

EA Android Coding Challenge

Introduction

This purpose of this assignment is to evaluate your coding skills and thought process. A company, Emirates Auction, wants to develop a single view screen.

As per the attached design, We need you develop a view containing the following:

- Using JAVA & Android Studio.
- Cars list with pull to refresh and lazy loading.
- Filter view (non-active).
- Auto refresh every x Minute.

We are interested in evaluating the code and your coding approach. The demo can consist of

Implementation of View & API integration. You also need to consider **LTR & RTL locales**, so your demo will support both Arabic & English languages.

Additionally, write a brief description of your approach to solving this task and why you chose it.

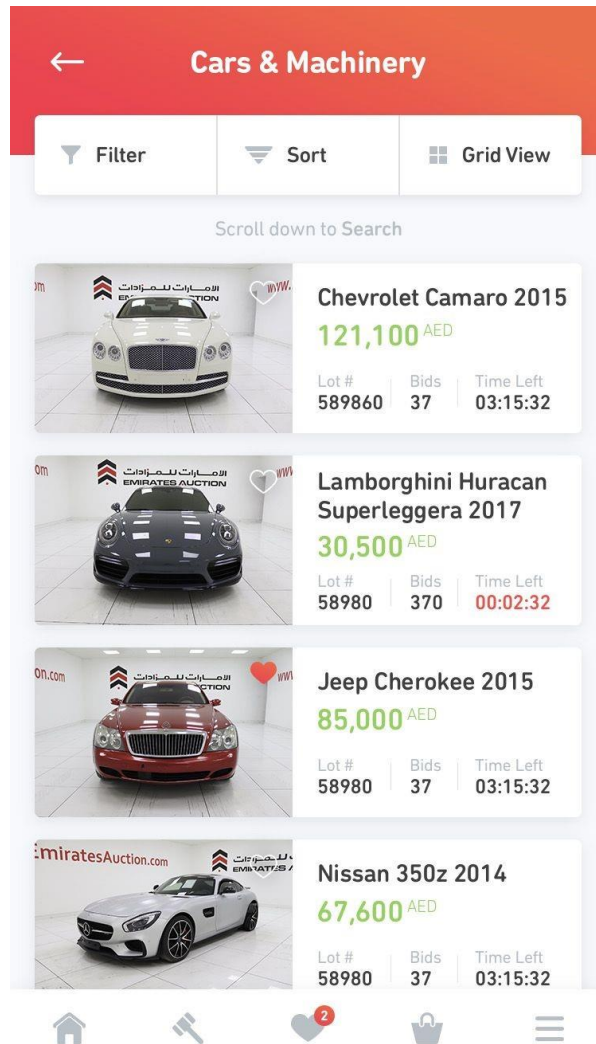
Also, state if there are other alternative approaches and how different they are from your approach.

You will be tested upon:

- **Code cleanliness and clarity.**
- **Best coding practices**
- **Code organization**
- **Application architecture**

Exercise

The task should not take more than two days



The API can be found at <http://api.emiratesauction.com/v2/carsonline>

1. You will load car image from a key "**Image**" by replacing width & height with [w], [h].

Image:

https://cdn.emiratesauction.com/media/9jeqvldvobggms4ko3qmdfpdqq0s12o81i3wid3o67xji1to3/t_w_0,h_0/images.jpg

2. There is no need of Filter & Gridview functionality , but need of the top bar UI.
3. List should be be able to pull to refresh.
4. Time label will be a countdown which should be sync with API.
5. Under 5 mints, color of time label will be change to red till it get updated.
6. There will be a key “**Ticks** ” (in seconds) which will be use as the time stamp to get the updates from the server , whenever app pass the last received ticks , those updated cars will be sent which should be updated on the list with a flash of grey . the api with ticks can be called with the refresh interval : “**RefreshInterval** ” which is in seconds.
7. No need of the bottom bar .
8. Will be a plus point if can have a popup view for sorting with enddate , price and year of the item.

API Response

```

"carID": 101950,
"image":
"https://cdn.emiratesauction.com/media/9jeqvldvobggms4ko3qmdfddq0s12o81i3wid3o67xji1to3/t_,w_
[w],h_[h]/images.jpg",
"descriptionAr": "",
"descriptionEn": "",
"imgCount": 43,
"sharingLink": "https://www.emiratesauction.com/lofi/#/cars/cars/online",
"sharingMsgEn": "Emirates Auction\n2013 Mini - Cooper S for auction\nLot# 101950\nCurrent
Price: AED 19,100\nAuction Ends on 4 Jul 6:00 PM",
السعر الحالي: 19,100 تسلسل # 101950 ميني - كوبر اس للبيع بالمزاد 2013 الامارات للمزادات", "sharingMsgAr": "ينتهي المزاد
في 4 يولييه 6:00 م درهم\n
"mileage": "96805",
"makeID": 81,
"modelID": 1194,
"bodyID": 8,
"year": 2013,
"makeEn": "Mini",
"makeAr": "ميني",
"modelEn": "Cooper S",
"modelAr": "كوبر اس",
"bodyEn": "Hatchback",
"bodyAr": "هاتش باك",
"AuctionInfo": {
  "bids": 62,
  "endDate": 89990,
  "endDateEn": "4 Jul 6:00 PM",
  "endDateAr": "4 م 6:00 يولييه",
  "currencyEn": "AED",
  "currencyAr": "درهم",
  "currentPrice": 19100,
  "minIncrement": 100,
  "lot": 101950,
  "priority": 1,
  "VATPercent": 0,
  "isModified": 0,
  "itemid": 101950,
  "iCarId": 0,
  "iVinNumber": ""
}

```