

## Assignment for position at “Mobilicis India Private Limited”

### - Flutter app development assignment

For any queries related to below assignments, reach out to [contactus@oruphones.com](mailto:contactus@oruphones.com) Or call us at **9660398594**

Assignment: Flutter App Development Assessment

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#### Requirements:

0. Develop an android app (apk) or an IOS app (ipa) using FLUTTER - that can dynamically fetch data from backend using provided APIs. Please follow below instructions for more details.

1. Use the latest Flutter version.
2. API Handling:
  - a. Implement 2 GET & 1 POST APIs from the provided API documentation below.
3. Push Notifications:
  - a. Integrate Firebase Cloud Messaging (FCM) for push notifications in the app.
  - b. Handle the click process when the user taps on a notification to navigate to a specific screen (Notification Screen).
4. Memory Management and Image Cache Optimization:
  - a. Optimize app memory usage to prevent unnecessary memory leaks.
  - b. Implement image cache optimization to improve performance when displaying images.
5. UI Implementation:
  - a. Create a home page using the provided UI images below.
  - b. Fetch dynamic data from the API and display it on the home page.
  - c. Implement infinite scrolling to load more data as the user scrolls down on the home page.

#### API Documentation:

1. GET: <https://dev2be.oruphones.com/api/v1/global/assignment/getListings>

```
payload: {  
  page: 1,  
  limit: 10}
```

2. GET: <https://dev2be.oruphones.com/api/v1/global/assignment/getFilters>

```
payload: {  
  isLimited: true  
}
```

3. POST: <https://dev2be.oruphones.com/api/v1/global/assignment/searchModel>

```
body: {  
  searchModel: 'Apple iPhone 12'  
}
```

### UI Images:

1. Home Page UI (To be designed): [Home page UI.png](#)
2. Search Page UI (To be designed) : [Search page UI.png](#)

For more reference on UI/UX , please refer our app available in play store.

<https://play.google.com/store/search?q=oruphones&c=apps>

### Deliverables:

Please provide following deliverables as a part of your assignment submission.

1. Screen recording video (Link of google drive) : showcasing the working of app with designs and explain your architecture and design decisions, if possible
2. Source code (Link of github)
3. Apk or ipa file (link of google drive)
4. Demonstrate the memory management and image cache optimization techniques you implemented (In the README file).

### Submission Guidelines:

1. Include a README.md file in your source code repository, explaining how to build and run the app. And share the github repo link.
2. Upload the APK file and the screen recording video to a cloud storage (Google Drive) and share the “google drive links” with your assignment submission. Please do not directly submit the apk file/video.

➤ We would like to evaluate your skills on “FLUTTER- UI designs, API handling, Memory management.

Good luck with the assignment!

If you have any questions or need any clarifications, feel free to ask call at 9660398594.