Mobile Developer Evaluation

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Introduction

This test has been designed to evaluate your proficiency with Flutter as it pertains to using restful Web APIs. The main emphasis will be placed on getting the solution running correctly and efficiently but extra points will be awarded for creativity in design and UI.

Any code created for this evaluation is solely for evaluation purposes. It remains the property of the code creator and will not be used by Webfx.

Instructions

Build a cross platform app containing two pages:

1. An initial **main page** containing a list of the names of various breeds of dogs. You can use a scrollable ListView, column or any other appropriate UI component for this list.
2. A **details page** that will be navigated to when a breed of dog is clicked.
   a. The title of the page should be the name of the breed that was clicked.
   b. The page should contain a grid of images of all the dogs within that particular bred. **The grid should contain 3 columns and as many rows as are required**. It should also be scrollable.

The following API **must** be used to retrieve the required dog information: https://dog.ceo/dog-api/documentation/

You will be required to study the documentation and accurately implement the API to retrieve the information.

Solution Requirements

1. The app should be built in Flutter. If it can't be built in Flutter, you may use another cross-platform solution but 2 points will be deducted from the Solution Completeness criteria as Flutter is the main platform we are looking at.

2. The app should launch with the main page. When a breed of dog is selected, the app should navigate to the details page. The user should be able to navigate back to the main page from the details page.
3. The app should be robust and cleanly handle loss of internet connection and other exceptions situations. Appropriate progress indicators will be expected when the app is loading information.

Extra Credit

When the user clicks on the picture of a dog, a barking sound is heard.

Points Structure

Points will be awarded as follows:

1. Solution Completeness – 5 points
2. Code Structure – 5 points
3. Solution Efficiency – 5 points
4. UI – 5 points
5. Robustness – 5 points
6. Extra Credit – 5 points

The points are awarded out of 25 but it's possible to get 30 if the extra credit section is successfully completed.

Deliverables

1. **A working apk** - The app will be evaluated in Android
2. **The entire code project as a zip file** – This should preferably be delivered as a link from Google Drive, One Drive or any such Cloud platform. WeTransfer is also fine.