SPHTech Mobile **Applications Assignment**

* Required

You are to create a native Android/iOS

Introduction

data sent over Singapore's mobile networks from 2008 to 2018 https://data.gov.sg/dataset/mobile-data-<u>usage</u>

application to display the amount the of

Example: https://data.gov.sg/api/action/datastore_s earch?resource_id=a807b7ab-6cad-4aa6-

87d0-e283a7353a0f&limit=5

You are encouraged to display any knowledge of architecture design in the development of your application.

Task ONE: Display a list of data

Each entry in the list could be a card or composite view, or whichever view you think will demonstrate your capabilities. Each entry shall display total data

consumption for ONE year - not quarter.

Data displayed can be just numbers.

Task TWO: Display a clickable image Display a clickable image in the entry if any

quarter in a year demonstrates a decrease

in volume data.

Data Caching

Cache the data for offline usage. **Guidelines**

Task THREE (Optional):

to solve the above problem Design interfaces or protocols

Non-emulator test

Emulator test

for review.

Please try to demonstrate the following: Any object-oriented design patterns used

Your code must include unit test to cover at

Include code coverage report if you know

least 70% code coverage (eg. handle network failure, internal server error)

how to. You are free to use any of these languages: - Android - Java or Kotlin but Kotlin is preferred. - iOS - Swift 4/5 Create and submit your code via Github and share it with us. We will be pulling the code from your Github and reviewing it on our side.

Try to make your commits small to

make one big final commit to your

demonstrate your thought process while doing the assignment. There is no need to

repository. You can mark the readme as WIP or some other name. Once your code is ready to be reviewed, drop us an email

There may be an online interview after your code submission. **Scoring**

Your code submission will be graded

according to these criteria:

2. Unit Testing: 40% 3. UI Testing: 10%

1. Coding / Development: 50%

testing. **Submission**

Type of application code *

Public Git repository details *

Any comments or feedback

Please ensure you have added proper test cases for the unit testing. Do not submit your repo if you have not cover any unit

Your answer

Name *

Your answer

Email *

Your Challenge Project's

Your answer

Your answer

) i0S Android

SPITECH

SUBMIT

Never submit passwords through Google Forms.

Google Forms