

STIW2044: Mobile Programming

Semester A222

School of Computing, CAS, UUM

FRONT COVER

Lab Assignment 1

Name Muhammad Haikal

Matric No 283950

Group A

Phone Number 0149502395

GitHub Link https://github.com/Haikal283950/STIW2044_Lab-

Assignment-1

Submission Date 3/5/2023

Acknowledgment I hereby signed and acknowledge that the following

works are from my effort in submitting this document. If found otherwise, severe action such as marks deduction or removal from the assignment can be

taken against me.

Digital Signature

AAA

Your Picture



Email (book purchase) haikaaal21@gmail.com

Digital key (book purchase) 8BnzFk0AdfoG0Ev



STIW2044: Mobile Programming

Semester A221 School of Computing, CAS, UUM

Lab Assignment 1

Given date: 19/4/2023

Submission date: 3/5/2023

Application Description

Develop a simple application that can search and extract country information using API from https://api-ninjas.com/api/country. Request for an API key from provider and once registered test your API and it should return a JSON data response. Based on the response build an application that allows users to search and display the country data. Use https://flagsapi.com/ API to display country flag.

SUBMISSION

Instruction 1 – Develop the application using Flutter SDK

Develop the application using the application described above.

1. GitHub link to your project (Don't set it as private)

https://github.com/Haikal283950/STIW2044_Lab-Assignment-1

2. YouTube video link (Don't set it as private)

https://youtu.be/4-9oHuz0b5A

Instructions 2 – Once instruction 1 completed answer all the following questions. The following questions will only count and check if the above full source code and video are available. Your answers should only come from your own code. Only shows the required code segment and any additional codes added to the answer will consider as the wrong answer.

Questions.

1. Show the code segment where dynamic object retrieves country JSON data from HTTP request.

(1 Marks)

2. Show the code segment where the app retrieved country capital from the decoded JSON data object. (Only the requested widget code)

(1 Marks)

```
Answer:

// Number 2

// Create instance of a capital country data from the decoded

JSON

var capital = countryData['capital'];
```

3. Show the code segment where the app retrieved currency name from the decoded JSON data object. (Only the requested widget code)

(1 Marks)

```
Answer:

// Number 3

// Create instance of a currency name data from the decoded

JSON

var currencyName = countryData['currency']['name'];
```

4. Show the code segment where the logic handling if the search country is not found. (Only show the required codes).

(2 Marks)

```
if (data is List && data.isNotEmpty) {
  // If condition code goes here
  // Number 4, an else condition if the first condition is not found
  } else {
    return "Country is not found!";
  }
```

5. Show the string concatenation for the flag URL.

(2 Marks)

```
Answer:

// Number 5, Instantiating the flag iso for the link that will

conduct a network.image

flagIso = "https://flagsapi.com/${country.iso2}/flat/64.png";

showFlag = true;
```

6. Screenshot of your application User Interface (before and after HTTP request)

(3 Marks)

