STIW2044: Mobile Programming
Semester A222
School of Computing, CAS, UUM

FRONT COVER

Lab Assignment 1

Name	MAZLIN NATASHA BINTI MOHAMAD NASIR
Matric No	288460
Group	A
Phone Number	01128846070
GitHub Link	https://github.com/mazlinnatasha
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	
Your Picture	
Email (book purchase)	mazlinnatasha02@gmail.com
Digital key (book purchase)	wqLPH54B8ARYW0Q

	STIW2044: Mobile Programming
(logo)	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/mazlinnatasha/CountryApp

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

https://youtu.be/QlRYwg22YJE

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.

```
main.dart > ts MyApp
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'dart:convert';

// API key from provider
String apiKey = "UXgl8puRSSRStxnymmEGWg==JkyT8mDJrkSOhcZZ";
String apiUrl = 'https://api-ninjas.com/api/country';

Run | Debug | Profile
void main() {
  runApp(const MyApp());
}

class MyApp extends StatefulWidget {
  const MyApp({Key? key}) :super(key: key);

  @override
  State<MyApp> createState() => _MyAppState();
}

class _MyAppState extends State<MyApp> {
  TextEditingController textEditingController = TextEditingController();
  String _value = "";

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Country App',
      home : Scaffold(
        appBar: AppBar(
          title : const Text ('Country APP'),
        ), // AppBar
        body: Center (
          child: Column(
            children: [
              const Text(
                "Enter your country name below",
```

(1 Marks)

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

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

(1 Marks)

3

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

(1 Marks)

```
var currency = countryInfo['currency']['name'];
```

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

```
    }
    else
    {
      return "Country does not exist";
    }
```

(2 Marks)

5. Show the string concatenation for the flag URL.

```
showFlag = true;
```

(2 Marks)

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

(3 Marks)