Mobile Initiation

Swifty Companion

Summary: *This project aims to introduce you to the development of mobile application.*

Version: 4

Contents

Chapter I

Forewords

Here's what wikipedia has to say about Dodo :

The dodo (Raphus cucullatus) is an extinct flightless bird that was endemic to the island of Mauritius, east of Madagascar in the Indian Ocean. Its closest genetic relative was the also extinct Rodrigues solitaire, the two forming the subfamily Raphinae of the family of pigeons and doves. The closest extant relative of the dodo is the Nicobar pigeon. A white dodo was once incorrectly thought to have existed on the nearby island of Réunion.

Subfossil remains show the dodo was about 1 metre (3 ft 3 in) tall and may have weighed 10.6–21.1 kg (23–47 lb) in the wild. The dodo's appearance in life is evidenced only by drawings, paintings, and written accounts from the 17th century. Because these vary considerably, and because only some illustrations are known to have been drawn from live specimens, its exact appearance in life remains unresolved. Similarly, little is known with certainty about its habitat and behaviour. It has been depicted with brownish-grey plumage, yellow feet, a tuft of tail feathers, a grey, naked head, and a black, yellow, and green beak. It used gizzard stones to help digest its food, which is thought to have included fruits, and its main habitat is believed to have been the woods in the drier coastal areas of Mauritius. One account states its clutch consisted of a single egg. It is presumed that the dodo became flightless because of the ready availability of abundant food sources and a relative absence of predators on Mauritius.

The first recorded mention of the dodo was by Dutch sailors in 1598. In the following years, the bird was hunted by sailors, their domesticated animals, and invasive species introduced during that time. The last widely accepted sighting of a dodo was in 1662. Its extinction was not immediately noticed, and some considered it to be a mythical creature. In the 19th century, research was conducted on a small quantity of remains of four specimens that had been brought to Europe in the early 17th century. Among these is a dried head, the only soft tissue of the dodo that remains today. Since then, a large amount of subfossil material has been collected from Mauritius, mostly from the Mare aux Songes swamp. The extinction of the dodo within less than a century of its discovery called attention to the previously unrecognised problem of human involvement in the disappearance of entire species. The dodo achieved widespread recognition from its role in the story of Alice in Wonderland, and it has since become a fixture in popular culture, often as a symbol of extinction and obsolescence. It is frequently used as a mascot on Mauritius.

Chapter II

Introduction

In this project you will discover how to develop a mobile application.

The aim of the project is to build an application that will retrieve the information of 42 students, using the 42 API. An API (Application programming interface) is a set of routines, protocols, and tools for building software applications. APIs often come in the form of a library that includes specifications for routines, data structures, object classes, and variables. In other cases, notably SOAP and REST services, an API is simply a specification of remote calls exposed to the API consumers.

Chapter III

Goals

This project aims to make you familiar with :

- mobile programming language (Dart, Swift, Kotlin, Java etc.).
- Any IDE of your choice (Android Studio looks like a good choice).
- Mobile Frameworks (Flutter)
- 42 API.

Chapter IV

General instructions

- This project will be evaluated only by humans.

- You can use any mobile language. Keep in mind that you must use the latest version of the IDE available on your school computers.

- You can use any compatible frameworks and libraries as long as their use is justified during your defense, Be smart!

- This project must use the latest available version of the 42 API.

- Remember that your choice can make you more attractive on the job market.

> ⚠ For obvious security reasons, any credentials, API keys, env variables etc. must be saved locally in a .env file and ignored by git. Publicly stored credentials will lead you directly to a failure of the project.

Chapter V

The project

V.1 Mandatory part

To validate the mandatory part of the project, you need to meet the following criteria:

- Your app must have at least 2 views.

- You must handle all cases of errors (login not found, network error, etc.).

- The second view must display the login information, if the login exists.

- You must display at least four details for the user (login, email, mobile, level, location, wallet, evaluations etc.) along with the profile picture.

- You must display the user's skills with level and percentage.

- You must display the projects that the user has completed, including failed ones.

- Your app must allow for navigating back to the first view.

- This project must use a flexible or modern layout technique, such as layout constraints, to ensure that the user interface displays correctly on different screen sizes and mobile platforms.

- Do not create a token for each query

> Refer to the OAuth2 documentation.

> You must use intra oauth2. Due to data privacy concerns, and in compliance with relevant laws in certain countries, it may be necessary to refrain from disclosing certain information.

V.2   Bonus

Bonus available:

- Recreate token at expiration date. If the token expires, the application must refresh it. The application must still be able to work properly in any case.

> ⚠ The bonus part will only be assessed if the mandatory part is PERFECT. Perfect means that the mandatory part has been completed entirely and works without any malfunctions. If you have not fulfilled ALL of the mandatory requirements, your bonus part will not be evaluated.

Chapter VI

Submission and peer-evaluation

Turn in your assignment in your `Git` repository as usual. Only the work inside your repository will be evaluated during the defense. Don't hesitate to double check the names of your folders and files to ensure they are correct.