



iOS Initiation

Swiftly Companion

Riad Korimbacus rkorimba@tudent.42.fr
Maxime Lemort mlemort@tudent.42.fr
PE Lieb plieb@tudent.42.fr

Summary: This project aims to introduce you to the development of iOS application in [swift](#).

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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 an iOS application using Swift: a multi-paradigm, compiled programming language created by Apple for iOS, OS X, tvOS, and watchOS development. It is built with the LLVM compiler framework, was at first included in Xcode 6, and uses the Objective-C runtime, allowing C, Objective-C, C++ and Swift code to run within a single program.

Xcode is an IDE for developing software for OS X and iOS.

The aim of the projet is to build an application that will retrieve the information of 42 student, 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 :

- Swift programming language
- Xcode IDE
- Apple Frameworks
- 42 API.

Chapter IV

General instructions

- This project will be evaluated only by humans
- This project must be written in Swift 2.0+ in Xcode 7.0+
- This project must use the last available version of the 42 API

Chapter V

The project

V.1 Mandatory part

Here's what you must do:

- You must have at least 2 Views
- The first view must contain an input text to search 42 logins
- The second view will display the login information
- You should at least display the profile picture and at least 4 other details (login, email, mobile, level, location, wallet, correction...)
- You should display the skills with level and percentage
- You should display the projects user has done even if he has failed them
- You must be able to go back to the first view
- This project must use Auto Layout (all iOS9+ iphones)
- Do not create a token for each query



`man oauth2`



If you want to release your app, you must use intra oauth2. For purpose of data confidentiality. (In accordance with the law in force in France)

V.2 Bonus

Here's some ideas:

- Use of Oauth2 - very recommended
- Use of custom cells - very recommended
- Recreate token at expire date
- Design
- Scrollview
- ...

Chapter VI

Turn-in and peer-evaluation

Turn your work in using your **GiT** repository, as usual. Only work present on your repository will be graded in defense.