



Piscine iOS Swift - Day 09

Personnal Diary

Summary: This document contains the Day 09 subject for the iOS Swift piscine of [42](#)

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Chapter I

Preamble

Here is the synopsis of "Le Dernier Jour d'un Condamné", by Victor Hugo.

The novel is written like the diary of the last 24 hours of a man sentenced to the death penalty. He tells his story starts with his trial and ends with his execution. That's six weeks of his life. This long self monologue is cut off with dreadful considerations et memories of his previous life, he calls the "life before". The reader will never know the name of this man, nor will they know his crime except for this detail: "I, miserable man who committed a real crime of blood!". The work is presented like a raw testimony about both the dread of a condemned man and his ultimate thoughts, his daily moral and physical suffering, and life conditions in prison. He expresses his feelings about his previous life, and his moods.

He will be executed before a crowd of people enjoying his death like common entertainment.

Chapter II

Instructions

- Only this page will serve as reference. Do not trust rumors.
- Read attentively the whole document before beginning.
- Your exercises will be corrected by your piscine colleagues.
- The document can be relied upon, do not blindly trust the demos which can contain not required additions.
- You will have to deliver an app every day (except for Day 01) on your git repository, where you deliver the file of the Xcode project.
- Here it is the official manual of [Swift](#) and of [Swift Standard Library](#)
- It is forbidden to use other libraries, packages, pods...before Day 07
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- Think about discussing on the forum Piscine of your Intra!
- Use your brain!!!



The videos on Intra were produced before Swift 3. Remove the prefix "NS" which you see in front of the class/struct/function in the code in the videos to use them in Swift 3.



Intra indicates the date and the hour of closing for your repositories. This date and hour also corresponds to the beginning of the peer-evaluation period for the corresponding piscine day. This peer-evaluation period lasts exactly 24h. After 24h passed, your missing peer grades will be completed with a 0.

Chapter III

Introduction


Dear journal,

Today, I'm going to create a journal application! And if I am to create a journal, I'm going to need security. Nobody will be able to read it except me, since it will open with my digit or a password thanks to the **LocalAuthentication** framework! I'm gonna be able to write **Articles** with a title, a content, a date, and I'm even gonna be able to publish photo I've taken with my camera in it! But since I'm a nice guy, I'm gonna make it available in several languages.

It's gonna be so cool that I will be able to get rid of you and throw you away!

Chapter IV

Exercise 00: The first brick

	Exercice : 00
The first brick	
Files to turn in : Swift Standard Library, UIKit	
Authorised functions : n/a	
Notes : n/a	


I'm going to begin simply using the pod I've built yesterday.

My application needs this pod since it helps me store **Articles** on my device and helps me retrieve it!

It's possible to import a pod from a folder in my **Podfile**. I don't see why I would stop myself from doing so.

Chapter V

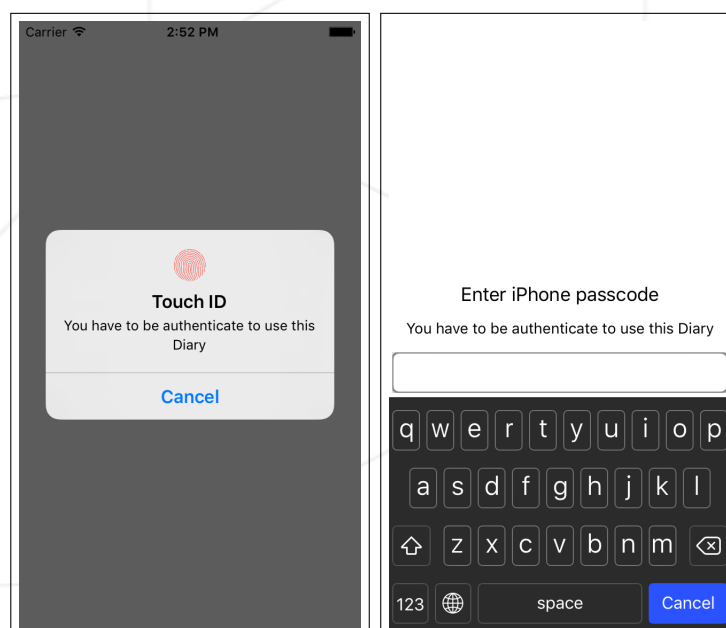
Exercise 01: Paper Please

	Exercise : 01
Paper Please	
Files to turn in : Swift Standard Library, UIKit, LocalAuthentication	
Authorised functions : n/a	
Notes : n/a	

Now, I will simply make a first authentication view.


The application must ask me to login with **TouchID** if it's available. Otherwise, it will require a password. As long as the login fails, the app must keep requesting it.

Once logged-in, the next exercise's view must appear.



Chapter VI

Exercise 02: Turn the page

	Exercise : 02
Turn the page	
Files to turn in : Swift Standard Library, UIKit, LocalAuthentication	
Authorised functions : n/a	
Notes : n/a	

Now I'm sure I'm the user of the application, I'm gonna be able to display my own **Articles** that are stored on the device.

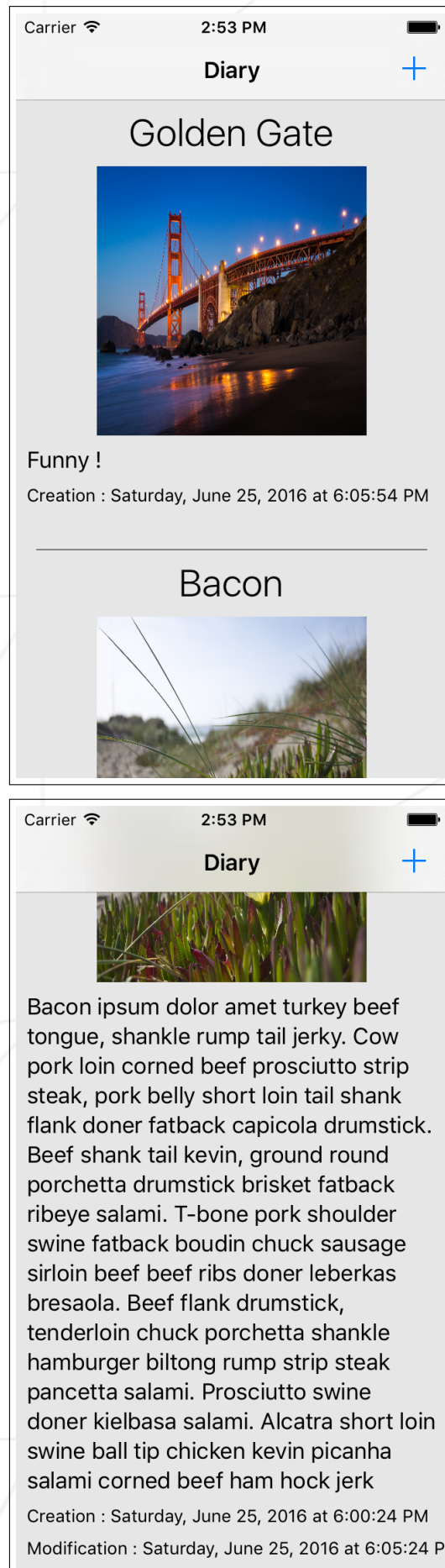
I know the drill: **TableView**, **CustomCells**, **Automatic Cell Height**, **yaddi yaddi yadda...**

But I must make sure not to forget anything:

- Title
- Picture
- Content
- Creation date
- Modification date if different from the creation date.




I must only display the **Articles** saved in the current language of the device.



Chapter VII

Exercise 03: RTVA

	Exercise : 03
RTVA	
Files to turn in : <code>Swift Standard Library</code> , <code>UIKit</code> , <code>LocalAuthentication</code>	
Authorised functions : n/a	
Notes : n/a	

Consulting **Articles** is fine, but I must find a way to add some.

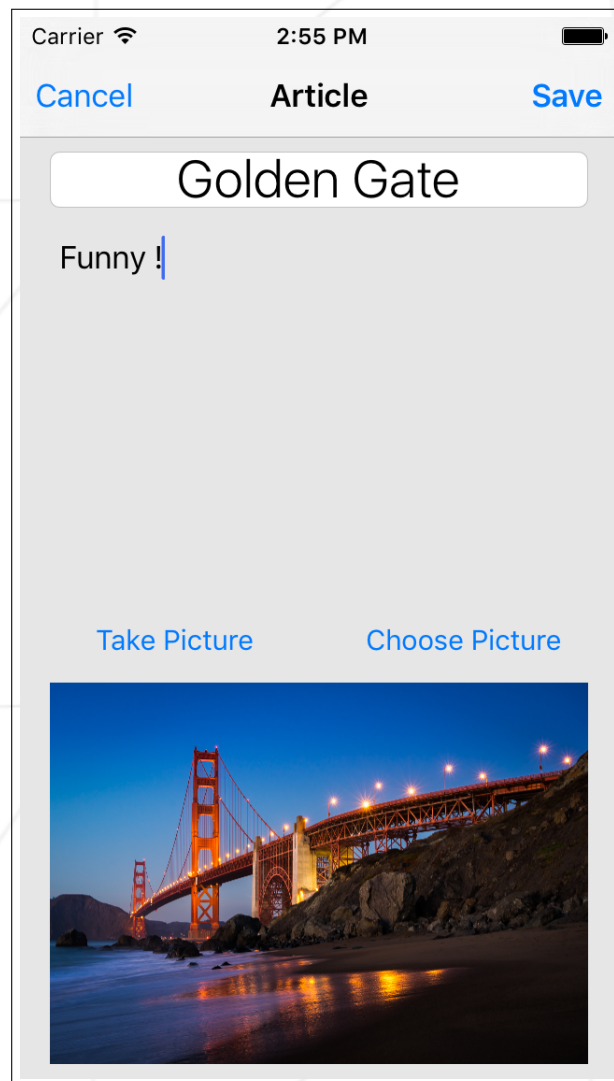
I know! I'm gonna add a **NavigationBar** with a title and **BarButton** that will take me to a view to add an **Article**.

In this new view, there will be all the elements I need to add an **article** and a button to save and return to the previous view.

For the picture, I should be able to choose between photos already stored on my device and ones I could take with the device's camera.




Obviously, I must make sure the articles are saved on the device.
When I quit the application and launch it again, the articles must still be present.



Chapter VIII

Exercise 04: Oops

	Exercice : 04
Oops	
Files to turn in : <code>Swift Standard Library, UIKit, LocalAuthentication</code>	
Authorised functions : n/a	
Notes : n/a	


Testing the app, I made a mistake on an **article** that I've saved!

I'm gonna have to implement a way to modify the **article** in the app.

I've found a cool thing! When I click on an **article** in the **TableView**, the same view as the previous exercise is present with all the fields already filled. I just have to modify my mistakes and save the article. I didn't even have to add another view with some code.

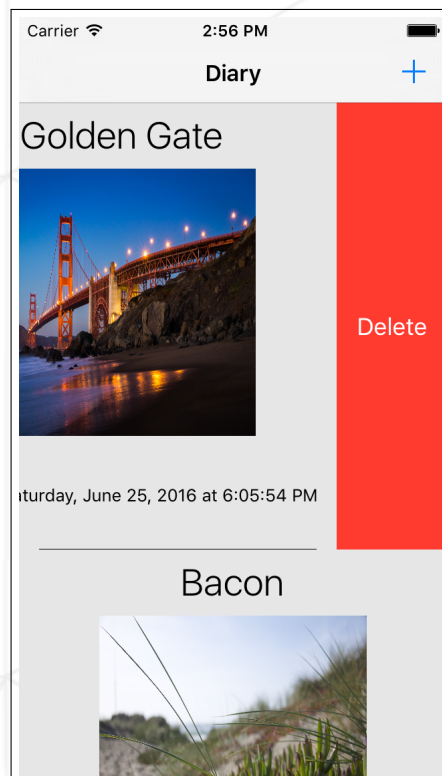
Chapter IX

Exercise 05: Tear the page

	Exercise : 05
Tear the page	
Files to turn in : Swift Standard Library, UIKit, LocalAuthentication	
Authorised functions : n/a	
Notes : n/a	


Well... I don't like this **article** actually.

I've seen some app that allowed to **Swipe** Cells to make a menu appear. I'm gonna use this to delete an **article**!



Chapter X

Exercise 06: Translation

	Exercice : 06
Translation	
Files to turn in : Swift Standard Library, UIKit, LocalAuthentication	
Authorised functions : n/a	
Notes : n/a	


Now that I've made an app in English, I just have to translate it in another language for... I don't know... Maybe some foreign friend will be interested someday.



I must make sure the simulator's language is changed (try French) to check all the Strings are translated except for the user's entries.

Chapter XI

Exercise 07: Ninja

	Exercise : 07
Ninja	
Files to turn in : <code>Swift Standard Library, UIKit, LocalAuthentication</code>	
Authorised functions : n/a	
Notes : n/a	

If I didn't shut my application and it keeps running in the background, someone could access it! I need to find a way to stop it from running in the background.