



Piscine iOS Swift - Day 09

Personnal Diary

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

Contents

I	Preamble	2
II	Consignes	3
III	Introduction	4
IV	Exercise 00: The first brick	5
V	Exercise 01: Paper Please	6
VI	Exercise 02: Turn the page	7
VII	Exercise 03: RTVA	9
VIII	Exercise 04: Oops	11
IX	Exercise 05: Tear the page	12
X	Exercise 06: Translation	13
XI	Exercise 07: Ninja	14

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

Consignes

Sauf contradiction explicite, les consignes suivantes seront valables pour tous les jours de cette Piscine.

- Seul ce sujet sert de référence : ne vous fiez pas aux bruits de couloir.
- Le sujet peut changer jusqu'à une heure avant le rendu.
- Les exercices sont très précisément ordonnés du plus simple au plus complexe. En aucun cas nous ne porterons attention ni ne prendrons en compte un exercice complexe si un exercice plus simple n'est pas parfaitement réussi.
- Attention aux droits de vos fichiers et de vos répertoires.
- Vous devez suivre la procédure de rendu pour tous vos exercices. L'url de votre dépôt GIT pour cette journée est disponible sur votre intranet.
- Vos exercices seront évalués par vos camarades de Piscine.
- En plus de vos camarades, vous pouvez être évalués par un programme appelé la Moulinette. La Moulinette est très stricte dans sa notation car elle est totalement automatisée. Il est donc impossible de discuter de sa note avec elle. Soyez d'une rigueur irréprochable pour éviter les mauvaises surprises.
- Les exercices shell doivent s'exécuter avec `/bin/sh`.
- Vous ne devez laisser aucun autre fichier que ceux explicitement spécifiés par les énoncés des exercices dans votre dépôt de rendu.
- Vous avez une question ? Demandez à votre voisin de droite. Sinon, essayez avec votre voisin de gauche.
- Toutes les réponses à vos questions techniques se trouvent dans les `man` ou sur Internet.
- Pensez à discuter sur le forum Piscine de votre Intra et sur Slack !
- Lisez attentivement les exemples car ils peuvent vous permettre d'identifier un travail à réaliser qui n'est pas précisé dans le sujet à première vue.
- Réfléchissez. Par pitié, par Thor, par Odin !

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

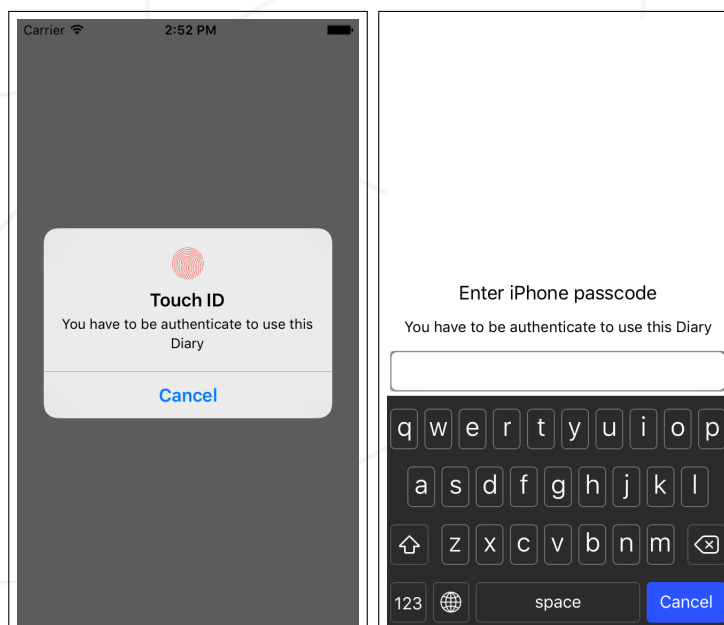
Exercise 01: Paper Please

	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.

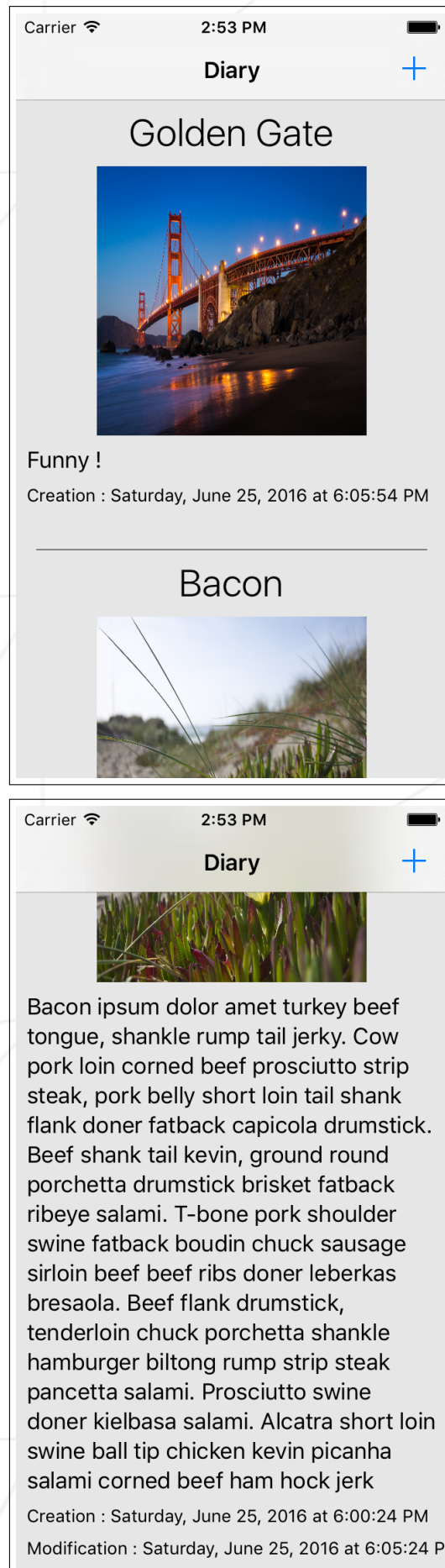
I know the drill: **TableView**, **CustomCells**, **Automatic Cell Height**, **yaddi yaddi yadda...**

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

	Exercice : 03
RTVA	
Files to turn in : Swift Standard Library, UIKit, LocalAuthentication	
Authorised functions : n/a	
Notes : n/a	

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

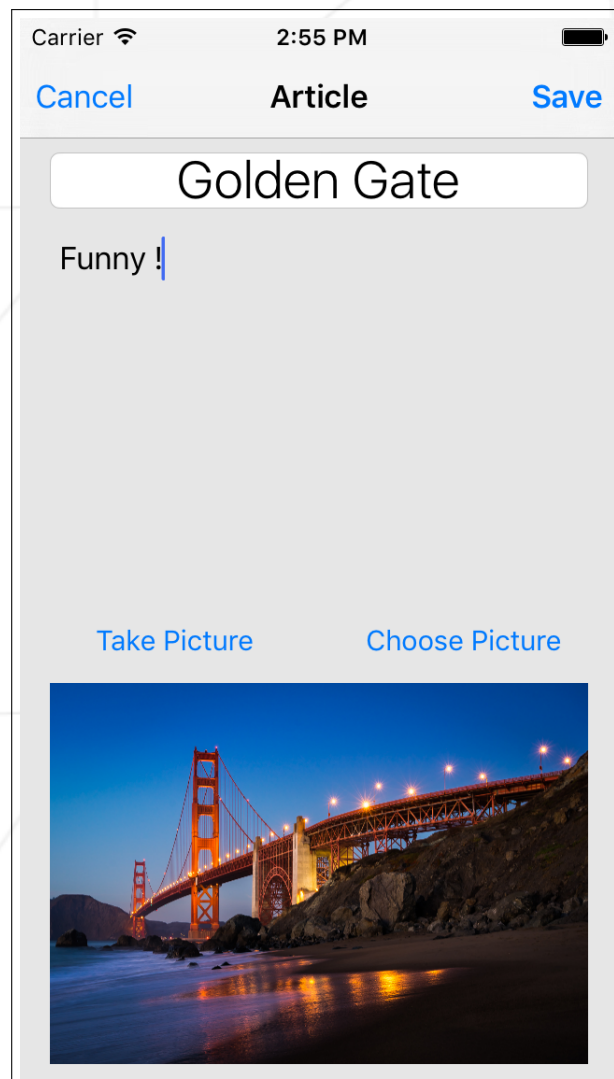
I know! I'm gonna add a **NavigationBar** with a title and **BarButton** that will take me to a view to add an **Article**.

In this new view, there will be all the elements I need to ad 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

	Exercise : 04
Oops	
Files to turn in : Swift Standard Library, UIKit, LocalAuthentication	
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.

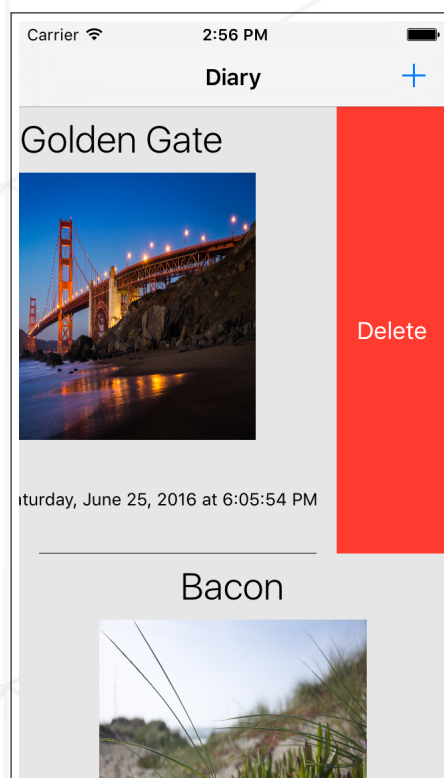
Chapter IX

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 : Swift Standard Library, UIKit, LocalAuthentication	
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.