

Piscine Swift - Day 09 (Alternate)

Classifieds

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Summary: This document contains the subject for Day for the "Piscine Swift" from 42

Contents

I	Foreword
II	General Instructions
III	Introduction
IV	Exercise 00: Broadcasting Data
V	Exercise 01: Formatting
VI	Exercise 02: Categories & Upvotes
VII	Exercise 03: Comments
VIII	Exercise 04: Sorting
XI	Exercise 05: MarketPlace
X	Bonus: In App Purchases

Chapter I

Foreword

"Get in Loser, We're Going Shopping"

- Regina George (played by Rachel McAdams), Mean Girls, 2004

Chapter II

General Instructions

- Only this document will serve as reference. Do not trust rumors.
- Read carefully the whole subject before beginning.
- Watch out! This document could potentially change up to an hour before submission.
- This project will be corrected by humans only.
- This course is designed to build on previous days' concepts, try your hardest to finish everyday.
- Each day culminates in a portfolio piece, if you finish the day this is something you can use to get hired.
- When submitting, submit the folder of the Xcode project.
- Only the work submitted on the repository will be accounted for during peer-2-peer correction.
- Here it is the [official manual of Swift](#) and the [Swift Standard Library](#)
- It is forbidden to use other libraries, packages, pods, etc. Unless otherwise stated in the project.
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- You can discuss on the Piscine forum of your Intra!
- By Odin, by Thor! Use your brain!!!

Chapter III

Introduction

For this assignment we will build a peer to peer marketplace that allows for the uploading and selling of items. For this we will learn how to further utilize databases so that they can be broadcast in one to many relationships with users.

Chapter IV

Exercise 00 : Broadcasting Data

Exercise : 00
Broadcasting Data
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

Using what we've learned before about databases we are going to create a one to many relationship database. Many can view the database and download from it, but only one can push and update it. We will demonstrate this with strings.

Hint: Foreign Key

Chapter V

Exercise 01 : Formatting

Exercise : 01
Formatting
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

We are going to make a visual representation of the data, the structure of the posts if you will. It will pull from the database, and populate a title, a category, who posted it, a price, comments, photos and a description. There should also be room for buying buttons but this functionality will be added in a later project.

Chapter VI

Exercise 02: The Main Feed & Upvotes

Exercise : 02
The Main Feed & Upvotes
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

Now we want to create a main feed display that allows for a score to be allocated per post. This will be done with upvotes and downvotes. Then we need to sort our main feed of posts by score.

Chapter VII

Exercise 03: Comments

Exercise : 03
Comments
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

Comments are both liked to a post and to a user who made the comment. We want to create a fully functional commenting system that allows for posting and for other users to read them. Implement the upvoting feature used for posts earlier as well.

Chapter VIII

Exercise 04: Sorting

Exercise : 04
Sorting
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

We should be able to sort by category, price, upvotes. We should be able to narrow the sorting by using multiple categories.

Chapter XI

Exercise 05: MarketPlace

Exercise : 05
MarketPlace
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit, DateInterval
Notes : n/a

Now we put it all together, we are making a fully functional online shop, where people can upload an item for sale and other people can see, comment on and buy those items that are for sale. There should be a main page that leads to other pages per item. The main page should be able to be sorted by category, price and upvotes, comments should be enabled and users should be able to leave comments. There should be a buy button that sends a signal to the server about buying, this should update the item as being no longer available.

Chapter X

Bonus : Reviews

Bonus
Reviews
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

Implement a rating system for rating users and leaving comments on their selling history.