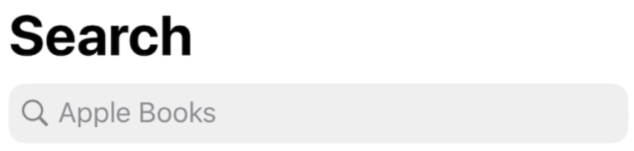
BOOK SEEKER

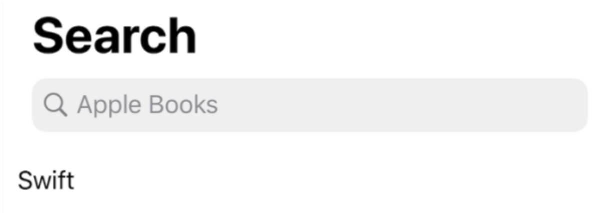
App Usage Description

Home Screen:

You'll see a search bar as soon as you launch the app and you should be able to search.

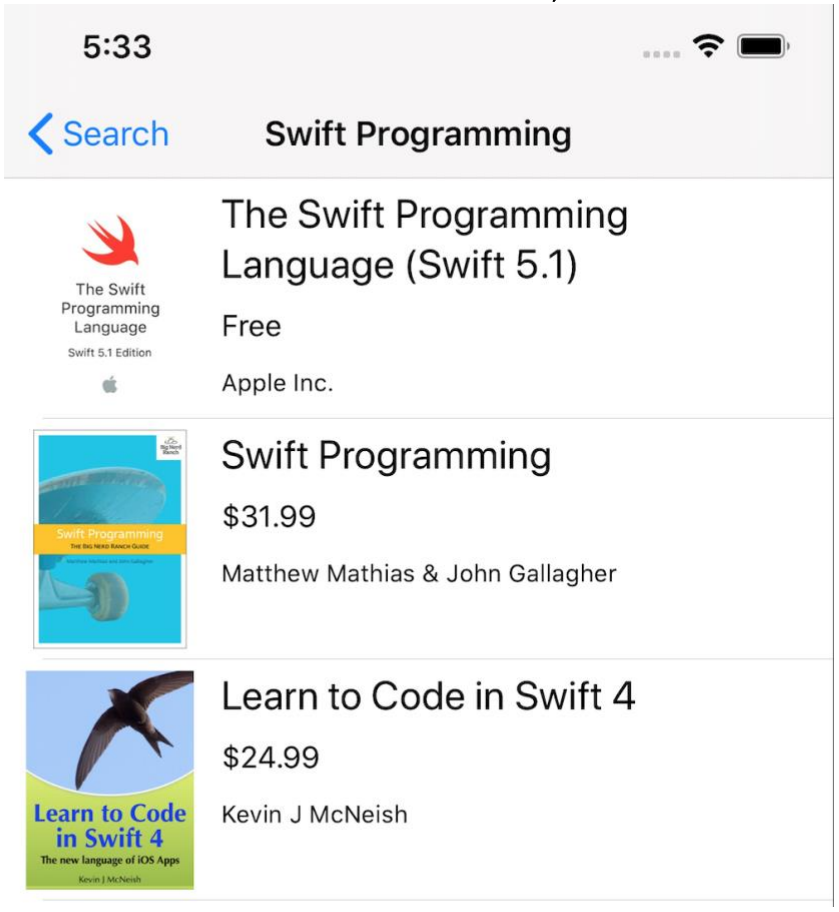


If you have any previous searches you should be able to see them, and you can select them



Books List Screen:

You can pretty much search for any books and it will hit the apple backend URL and you should be able to see the list of books if found any like shown below.



The Swift Programming Language (Swift 5.1)
Free
Apple Inc.

Swift Programming
$31.99
Matthew Mathias & John Gallagher

Learn to Code in Swift 4
$24.99
Kevin J McNeish

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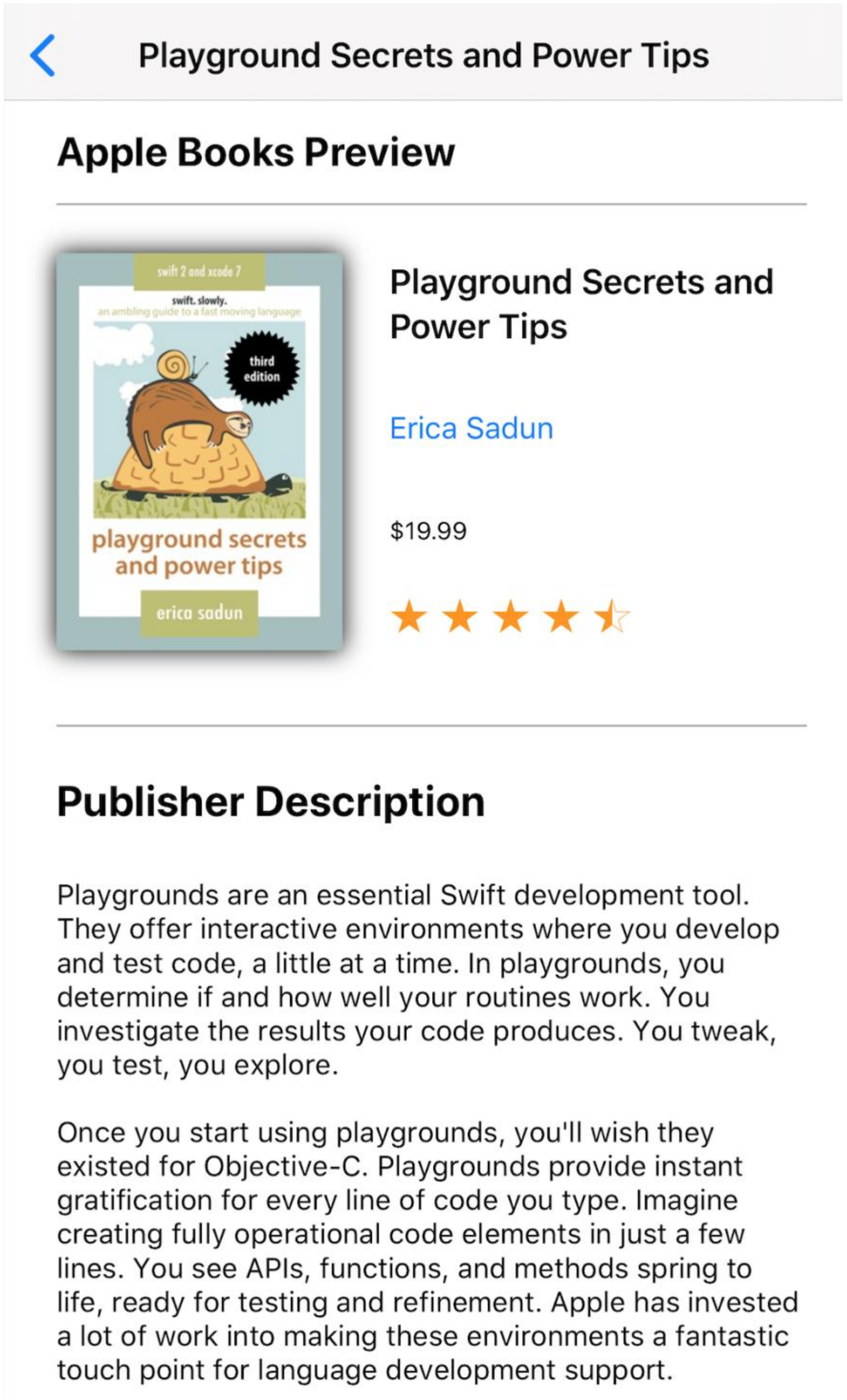
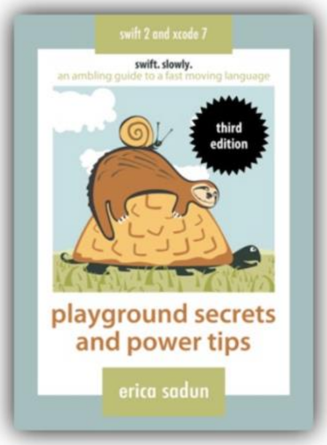
Book Details Screen:

If you want to find any book details, you can select any one of the books and you will be presented with the book details like shown below.



Apple Books Preview



swift 2 and xcode 7
swift. slowly.
an ambling guide to a fast moving language
third edition
playground secrets and power tips
erica sadun

Playground Secrets and Power Tips

Erica Sadun

$19.99

★★★★☆

Publisher Description

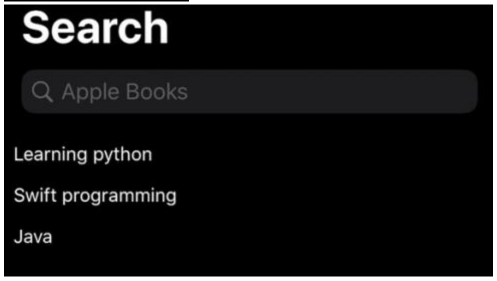
Playgrounds are an essential Swift development tool. They offer interactive environments where you develop and test code, a little at a time. In playgrounds, you determine if and how well your routines work. You investigate the results your code produces. You tweak, you test, you explore.

Once you start using playgrounds, you'll wish they existed for Objective-C. Playgrounds provide instant gratification for every line of code you type. Imagine creating fully operational code elements in just a few lines. You see APIs, functions, and methods spring to life, ready for testing and refinement. Apple has invested a lot of work into making these environments a fantastic touch point for language development support.

BOOK SEEKER

This app will also work according to the dark and Light phone mode. see the example below.

Home Screen:



Search

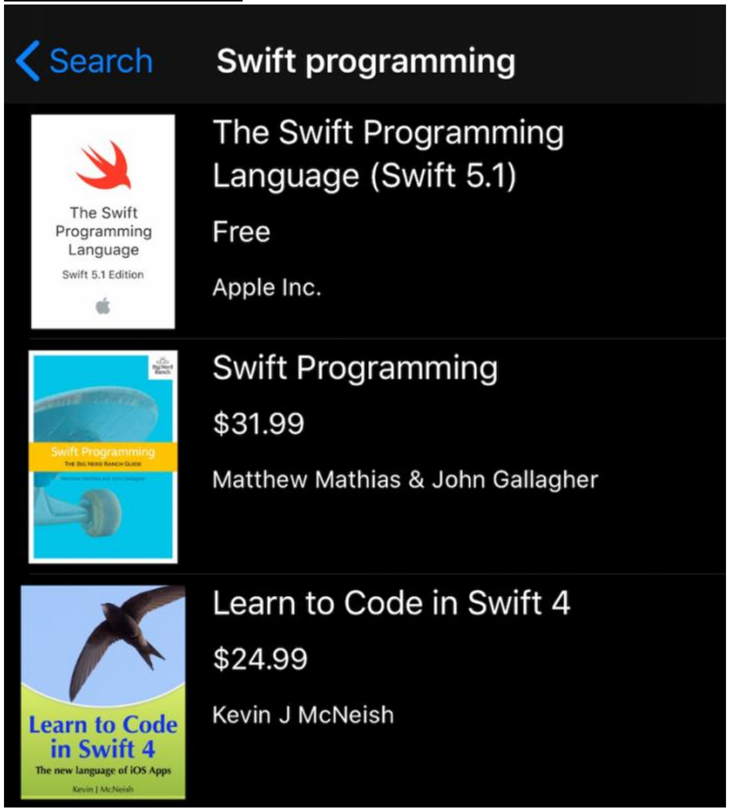
Apple Books

Learning python

Swift programming

Java

Books List Screen:



Swift programming

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Free

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Swift Programming

$31.99

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Learn to Code in Swift 4

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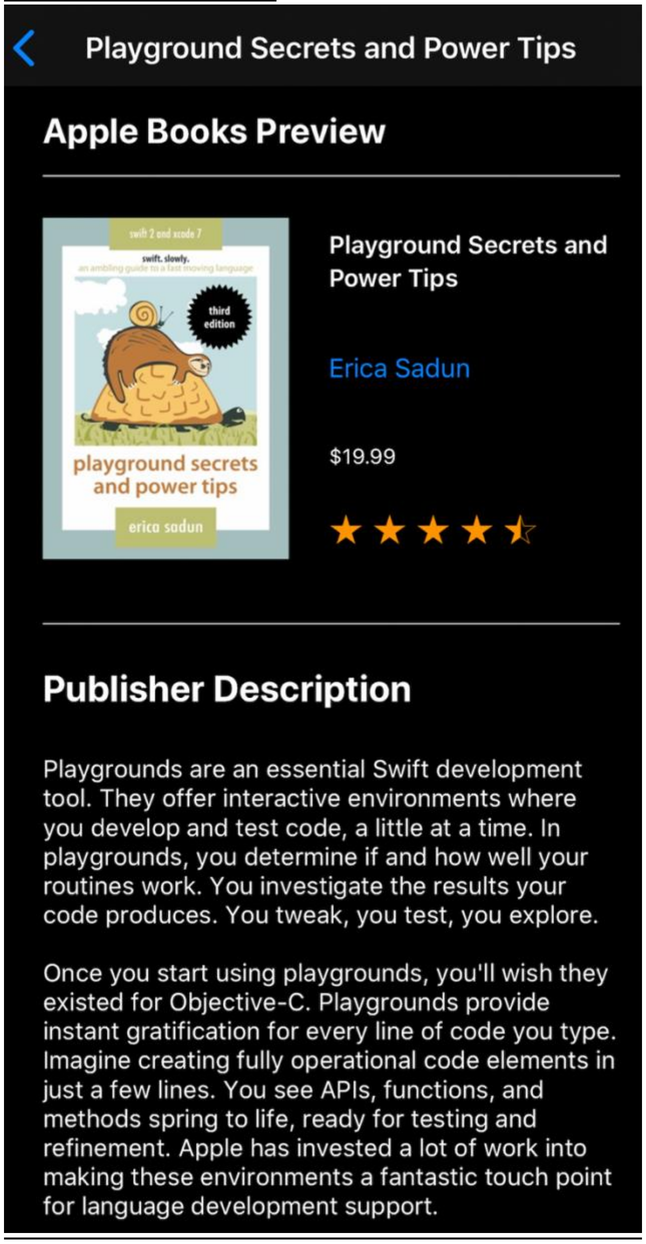
Kevin J McNeish

Book Details Screen:



Apple Books Preview

Playground Secrets and Power Tips

Erica Sadun

$19.99

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Implementation Details:

Design Pattern used: MVVM
Pods used: Alamofire, AlamofireImage, Cosmos, TinyConstraints.

Home Screen:
For home screen, the search bar I've created programmatically. Also, i am saving all the saves locally using NSUserDefaults, and i am retrieving all the previous saves in ViewWillAppear to display in the table view on home screen.

I implemented table view did select row at index path and using segue i am navigating to books list screen with the selected search string and calling sending the string to books results screen.

Books List Screen:
We get the search string from home screen and we ask the view model to ask the service which calls the backend API to load all the books and parse the json and will populate the books view model and will load the table view.

Since we load the API data asynchronously, we have to reload the table view once we get the data back from the backend API. For retrieving the json i am using old school NSURLSession to get the json and manually parsing the json and mapping the model object. But for images I am using alamofire image to retrieve images based on the URL we found the book object and also, we are implementing image caching to store already downloaded images for better performance.

Using the table view did select row at index path i am sending the selected book to book details screen.

Book Details Screen:
In book Details screen, i am building the screen natively with scrollable content. I am using the book that i already parsed on books list screen and just using the information to build the screen. I am building all the UI in storyboard and using the image that we already downloaded on the books list screen. I am using Cosmos for showing the book rating.

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Testing:

Unit Testing:
I am unit testing the app components like table view and also mocking the service to make sure the app is actually making the network call to get the books json. And there are couple more things i am testing.

UI Testing:
I am testing the UI from launching the app and doing some a basic search and checking to see if it actually goes to book list screen and from there see if goes to book details screen.