Intermediate Realm on iOS

Hands-On Challenges

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Table of Contents: Overview

Table of Contents: Extended

4 Challenges: Encrypted Realms

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Challenge A: Add results to the app's encrypted Realm file

In this challenge you will add a bit of code to your `MarksViewController` class to allow the user add their marks securely to the app's encrypted Realm file.

Open **MarksViewController.swift** and find the `addMark:` method, which is already connected to the **+** bar item in the view controller's storyboard.

First you'll need to add an alert view controller featuring two text fields; the code will be pretty similar to the one presenting the PIN dialogue. Append in `addMark`:

```
let alert = UIAlertController(title: "Add results securely",
  message: "Add subject name and your result",
  preferredStyle: .alert)
alert.addTextField(configurationHandler: nil)
alert.addTextField(configurationHandler: nil)
```

The two text fields will allow the user to enter the name of the exam and their result.

> **Note:** In real life projects you'd like to show a list of the existing exams so that the user doesn't have to enter information they can pick from a list, but we're trying to keep UI code to a minimum for these challenges.

Next add a button to the alert and present the controller on screen:

```
alert.addAction(UIAlertAction(title: "Save", style: .default, handler:
{[weak self] action in
    //add code here
}))
```

```
present(alert, animated: true, completion: nil)
```

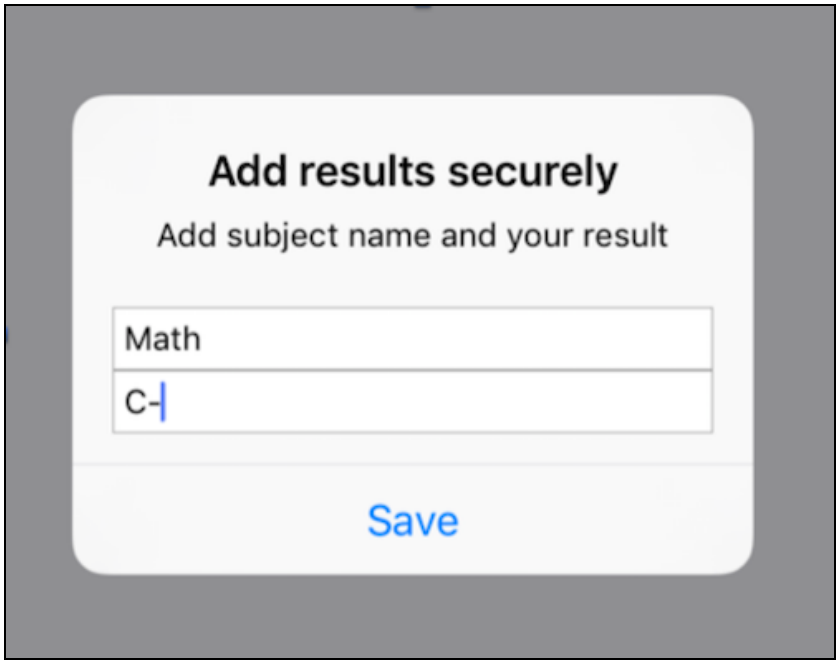
Inside the handler closure add the logic to check the user input:

```
if let subject = alert.textFields?.first?.text,
  !subject.isEmpty,
  let mark = alert.textFields?.last?.text,
  !mark.isEmpty,
  let realm = self?.safeRealm {
  try! realm.write {
    realm.add(SubjectMark(name: subject, mark: mark))
  }
  self?.tableView.reloadData()
}
```

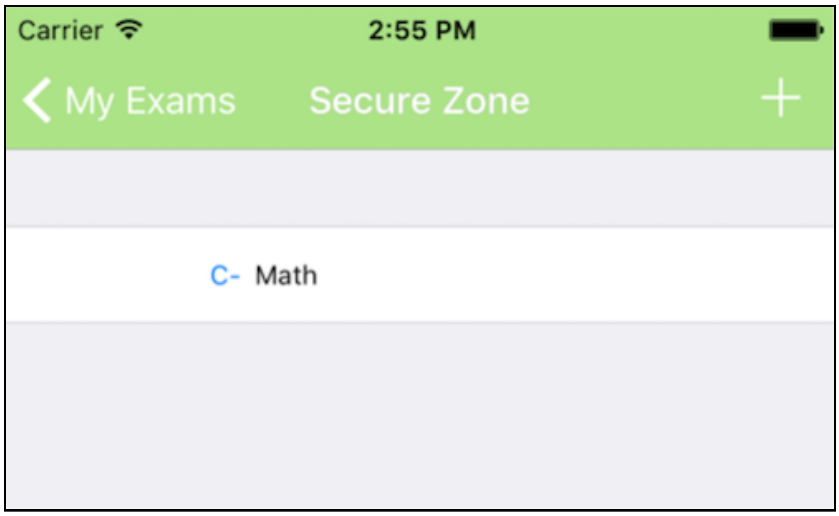
You check that the user entered some text in each of the fields. Then you store the new object in your Realm file and trigger a refresh of your table view.

You don't need to handle notifications or refresh anything else – the marks, which the table view loads its items from is always up-to-date because is a `Results` object.

When you launch the app now and enter the Secure Zone screen you can add an exam result:



And then see it immediately pop up in the table view:



Good job working through this challenge! However that C- on your math exam might require some more work :]