

Overview

Create an app which lets your browse a list of products with the ability to add and remove them from an order as well as viewing an order summary.

Instructions

Let's start with getting some materials into the app. In Xcode under the project navigator you'll find a JSON file 'materials.json' this contains information for 20 products. We want to deserialise this into native objects, take a look at the documentation for 'JSONSerialization'. Next parse the JSON and choose an appropriate way to model the materials so we are able to readily access them within the app.

Now that we have some data to work with we can start displaying it. Take a look at 'Main.storyboard'. Here we can visually build up parts of the interface, you'll see there's already a 'NavigationController' with a root view controller. If you're not familiar with navigation controllers it's worth having a read of the class documentation.

The root view controller has been set up with a 'UITableView' which will be used to display the materials. Create a reusable 'UITableViewCell' as a prototype cell with a custom class that holds outlets to the interface. For now the cell must display the name of the product and the product image. You can find the images in 'Assets.xcassets' in the project navigator.

Hook up 'ViewController' as the 'dataSource' and 'delegate' of the table view. Implement the appropriate methods and properties to populate the tableview with a cell for each material. Make sure you use cell dequeuing.

With the basics setup you can now start work on the ordering system, below is a list of specifications.

- The material cell should display the quantity of the material.
- Buttons to increase and decrease the quantity of each material
- The concept of an order. The order should keep track of materials and their quantity. The order should not know about materials with a quantity less than 1.
- A 'UIBarButtonItem' to the right side of the 'NavigationBar' with the title 'Summary'
- Another ViewController named 'OrderSummaryViewController'
- When pressing the 'Summary' button you will be pushed to the 'OrderSummaryViewController'
- 'OrderSummaryViewController' should display a list of materials and their quantity from the order in the following format. (ID - xQuantity) e.g. 950939 - x10