



**National University of Sciences and Technology (NUST)**  
**School of Electrical Engineering and Computer Science**

**Department of Computing**

**EC-303: Mobile Application Development**

**Class: BESE 8AB + BSCS 7ABC**

**Lab 07: Implementation Of Scrolling List and Styling List.**

**Date: 7th April 2021**

**Time: 9:00 AM - 12:00 PM**

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**Lab Engineer: Mr. Aftab Farooq**



## Lab 7: Implementation Of Scrolling List

### Objectives

The objective of this lab is helping students to familiarize themselves that how to use List view widgets in app and how to style a List. List view is the most commonly used scrolling widget. It displays its children one after another in the scroll direction. In the cross axis, the children are required to fill the List view.

### Tools/Software Requirement

Flutter, Android Studio, XCode, Any Editor

### Helping Material:

- Flutter official Documentation
- <https://www.solutelabs.com/blog/flutter-tutorial-for-beginners-step-by-step-guide>.
- Stack overflow
- Flutter Community

### Helping Link for Icons & Logo:

- <https://icons8.com/icons/set/mobile-app>

## Lab Task # 1

### Create a Simple Recipe Book App Using List View Widget:

A). Create a simple Recipe Book Application.

- 1). Create a New Project with **Recipe Book**.
- 2). Make a splash screen with any Logo and Title name “**Recipe Book**”
- 3). After Splash screen create a new view i.e. **Recipe view or Home view**
- 4). Implement a vertical List using **List View Widget**. (like shown below)
- 5). Take a Image Place holder for Recipe Image, Label for Recipe Title and for Recipe Prep time.
- 6). Take a static Array of Recipe Images i.e **recipeImages** like below (Download from Internet):

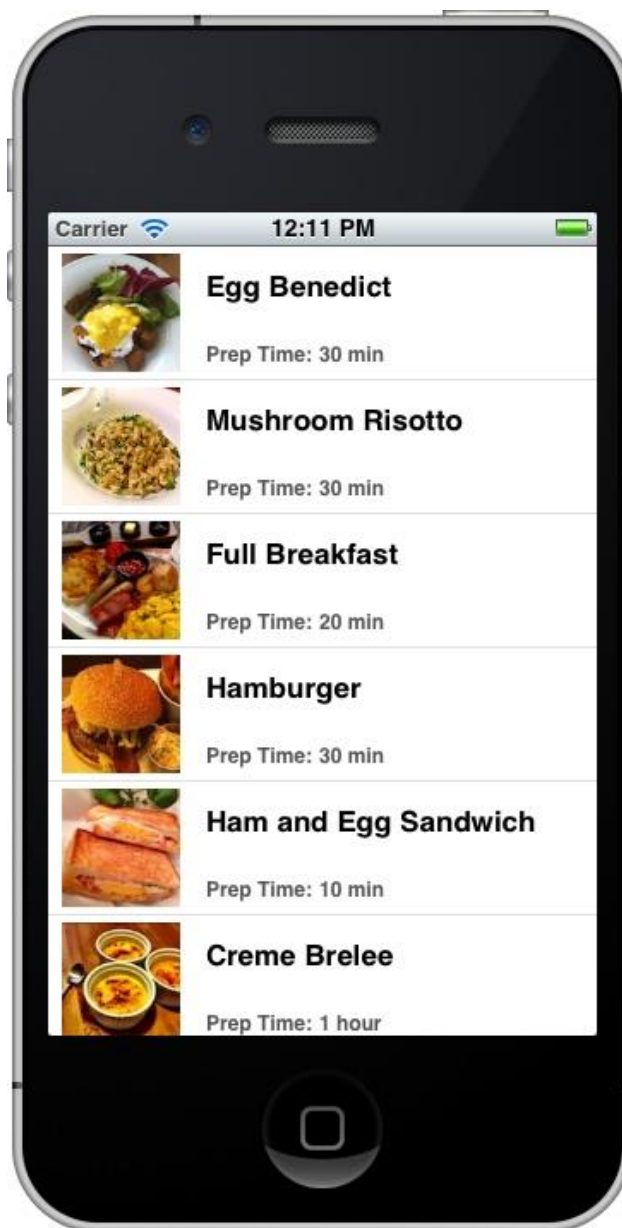
```
var recipeImages = ["egg_benedict.jpg", "mushroom_risotto.jpg", "full_breakfast.jpg",  
"hamburger.jpg", "ham_and_egg_sandwich.jpg", "creme_brelee.jpg", "white_chocolate_donut.jpg",  
"starbucks_coffee.jpg", "vegetable_curry.jpg", "instant_noodle_with_egg.jpg",  
"noodle_with_bbq_pork.jpg", "japanese_noodle_with_pork.jpg", "green_tea.jpg",  
"thai_shrimp_cake.jpg", "angry_birds_cake.jpg", "ham_and_cheese_panini.jpg", nil];
```



7). Take a static Array of Recipe Names i.e **recipeNames** like below

```
var recipeNames = ["Egg Benedict", "Mushroom Risotto", "Full Breakfast", "Hamburger",  
"Ham and Egg Sandwich", "Creme Brelee", "White Chocolate Donut", "Starbucks Coffee", "Vegetable  
Curry", "Instant Noodle with Egg", "Noodle with BBQ Pork", "Japanese Noodle with Pork", "Green  
Tea", "Thai Shrimp Cake", "Angry Birds Cake", "Ham and Cheese Panini", nil];
```

8). Take a static Array of Prep Time i.e **prepTime**.



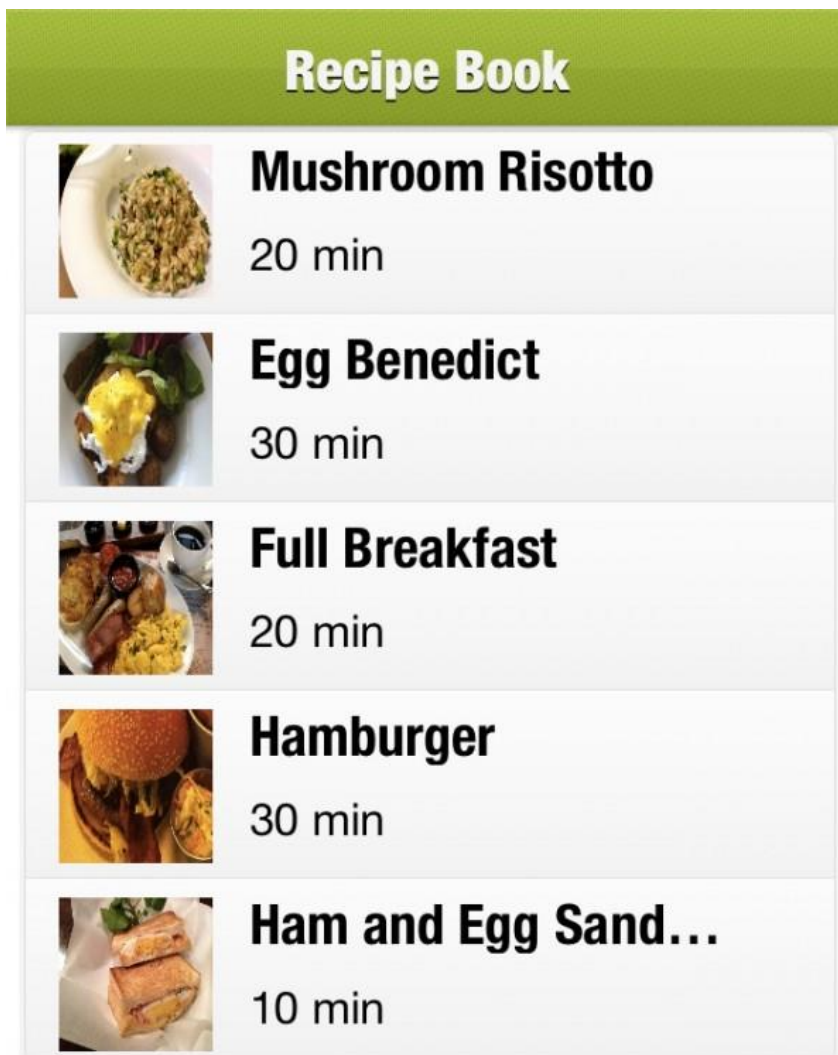


## Lab Task # 2

### Styling A List:

B). Apply styling on Recipe List.

- 1). Create a header view and set Title : **Recipe Book**.
- 2). Set any **back ground color** of header view that matches with your splash logo color.
- 3). Make **round** Recipe Image corners.
- 4). Set “**SFProDisplay-Bold**” Size 22 Font to Recipe Titles.
- 5). Set “**SFProDisplay-Regular**” Size 16 Font to Recipe Prep Time lbl.
- 6). Make sure to apply a same List style as shown below.





## Lab Task # 3

### Create a Recipe Detail View:

- 1). Create a new view i.e. “Recipe Detail View”
- 2). Create a header view and set Title : **Recipe Detail View**.
- 2). When user click on any Recipe from list it's navigates to “Recipe Detail View”
- 3). Pass Image , Title and PrepTime of selected List Item to Recipe Detail View.
- 4). Show Image , Title and PrepTime of selected List Item on Recipe Detail View.
- 5). Add any Description in **Text view** about Recipe below Image , Title and prepTime on Recipe Detail View.

### Solution

**Task Code:**

**Task Output Screenshot:**

### Deliverable

Compile a single word document by filling in the solution part and submit this Word file on LMS. This lab grading policy is as follows: The lab is graded between 0 to 10 marks. The submitted solution can get a maximum of 5 marks. At the end of each lab or in the next lab, there will be a viva/quiz related to the tasks. You must show the implementation of the tasks in the designing tool, along with your complete Word document to get your work graded. You must also submit this Word document on the LMS. In case of any problems with submissions on LMS, submit your Lab assignments by emailing it to Mr. Aftab Farooq: [aftab.farooq@seecs.edu.pk](mailto:aftab.farooq@seecs.edu.pk).