

Отчет по Домашнему заданию по курсу  
"Разработка Интернет-Приложений"

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## **Задание:**

На основе методических указаний разработайте мобильное приложение на языке Kotlin (платформа Android) или языке Swift (платформа iOS). Для создания приложения необходимо решить следующие задачи:

Создать стартовый проект мобильного приложения.

Добавить компонент таблицы в Ваше приложение.

Добавить подключение из мобильного приложения к веб-сервису, разработанному в лабораторной работе №6.

Наполнить таблицу элементами, полученными из вашего веб-сервиса: с помощью запросов к API получить из него данные.

Разработать дополнительный экран с UI компонентами для отображения детальной информации об элементе таблицы при касании по нему.

Данное домашнее задание было выполнено с небольшими отклонениями от самого задания. В частности: вместо архитектуры MVC была взята архитектура VIPER, работа с была полностью со стороннем API, а верстка производилась кодом. Также были установлены дополнительные зависимости в виде фреймворка KingFisher.

## **Результат работы программы**

15:33



Москва ▾



Пицца

Комбо

Напитки

Десерты



### Chicken-Tortilla Chip Soup

water, chicken breasts, bouillon  
cubes, carrots, cilantro,  
seasoned salt



### Gluten Free Dairy Free Buttermilk Biscuits

blanched almond flour,  
arrowroot flour, baking powder,  
xanthan gum, sugar, salt, butter,  
eggs, buttermilk



### Bananas Foster Ice Cream

whole milk, kosher salt,  
granulated sugar, vanilla bean,  
egg yolks, heavy cream,



Меню



Избранное



Профиль



Контакты

15:33



Москва ▾

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Десерты



water, chicken breasts, bouillon  
cubes, carrots, cilantro,  
seasoned salt



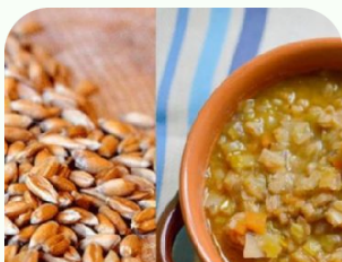
### Gluten Free Dairy Free Buttermilk Biscuits

blanched almond flour,  
arrowroot flour, baking powder,  
xanthan gum, sugar, salt, butter,  
eggs, buttermilk



### Bananas Foster Ice Cream

whole milk, kosher salt,  
granulated sugar, vanilla bean,  
egg yolks, heavy cream,  
unsalted butter, light brown  
sugar, bananas, rum



### Farro & Leek Soup

olive oil, leeks, farro, celery,  
carrot, onion, stock cubes, bay  
leaf, parmesan cheese, Salt &  
Pepper



Меню



Избранное



Профиль



Контакты



# Chicken-Tortilla Chip Soup

water, chicken breasts, bouillon cubes, carrots,  
cilantro, seasoned salt

Boil all of the above for 30-40 minutes. On serving,  
add corn chips, Monterey Jack cheese and slices of  
avocado.

Код программы:

SceneDelegate.swift

```
//  
// SceneDelegate.swift  
// test  
//  
// Created by Егор Шкарин on 05.01.2022.  
//  
  
import  
  
class SceneDelegate UIResponder UIWindowSceneDelegate  
  
    var window UIWindow  
    var coordinator CoordinatorProtocol  
  
    func scene _ UIScene willConnectTo UISceneSession  
options UIScene  
    guard let as UIWindowScene else return  
    window UIWindow windowScene  
    guard let window else return  
        overrideUserInterfaceStyle light  
    coordinator Coordinator window  
    coordinator start  
  
    func sceneDidDisconnect _ UIScene  
        // Called as the scene is being released by the system.  
        // This occurs shortly after the scene enters the background, or when  
its session is discarded.  
        // Release any resources associated with this scene that can be re-  
created the next time the scene connects.  
        // The scene may re-connect later, as its session was not necessarily  
discarded (see `application:didDiscardSceneSessions` instead).  
  
    func sceneDidBecomeActive _ UIScene  
        // Called when the scene has moved from an inactive state to an active  
state.  
        // Use this method to restart any tasks that were paused (or not yet  
started) when the scene was inactive.  
  
    func sceneWillResignActive _ UIScene  
        // Called when the scene will move from an active state to an inactive  
state.  
        // This may occur due to temporary interruptions (ex. an incoming  
phone call).  
  
    func sceneWillEnterForeground _ UIScene  
        // Called as the scene transitions from the background to the  
foreground.
```

```
        // Use this method to undo the changes made on entering the
background.
```

```
func sceneDidEnterBackground(_ UIScene
    // Called as the scene transitions from the foreground to the
background.
    // Use this method to save data, release shared resources, and store
enough scene-specific state information
    // to restore the scene back to its current state.
```

## Coordinator.swift

```
//
// Coordinator.swift
// test
//
// Created by Егор Шкарин on 05.01.2022.
//

import
import

protocol CoordinatorProtocol
    func start

final class Coordinator CoordinatorProtocol
    private let window UIWindow
    private lazy var tabBarController UITabBarController
    private lazy var navigationControllers
Coordinator makeNavigationControllers
    init window UIWindow
        self window

    func start
        setupMenu
        setupContacts
        setupProfile
        setupBasket

        let NavControllerType allCases compactMap
            self navigationControllers

        tabBarController setViewControllers animated
true
        tabBarController tabBar barTintColor UIColor named "tabBarColor"
        window rootViewController tabBarController
```

```
window makeKeyAndVisible
```

```
extension Coordinator
```

```
private func setupMenu
    guard let navigationControllers menu else
        fatalError("No navController")
```

```
    let MenuContext moduleOutput nil
    let MenuContainer assemble with
        setViewControllers viewController
    animated true
```

```
private func setupBasket
    guard let navigationControllers basket else
        fatalError("No navController")
```

```
    let BasketContext moduleOutput nil
    let BasketContainer assemble with
        setViewControllers viewController
    animated true
```

```
private func setupProfile
    guard let navigationControllers profile else
        fatalError("No navController")
```

```
    let ProfileContext moduleOutput nil
    let ProfileContainer assemble with
        setViewControllers viewController
    animated true
```

```
private func setupContacts
    guard let navigationControllers contacts else
        fatalError("No navController")
```

```
    let ContactsContext moduleOutput nil
    let ContactsContainer assemble with
        setViewControllers viewController
    animated true
```

```
fileprivate static func makeNavigationControllers NavControllerType
JINavigationController
    var NavControllerType UINavigationController
    NavControllerType allCases forEach in
        let UINavigationController
        let UITabBarItem title
            image
```



```
                tag: rawValue,
                tabBarItem: nil,
                isNavigationBarHidden: true
            )
        return nil
    }
}
```

```
fileprivate enum NavControllerType: Int, CaseIterable {
    case menu, basket, profile, contacts
}
```

```
var title: String {
    switch self {
    case menu:
        return "Меню"
    case basket:
        return "Избранное"
    case profile:
        return "Профиль"
    case contacts:
        return "Контакты"
    }
}
```

```
var image: UIImage {
    switch self {
    case menu:
        return UIImage(named: "menu")
    case basket:
        return UIImage(named: "basket")
    case profile:
        return UIImage(named: "profile")
    case contacts:
        return UIImage(named: "contacts")
    }
}
```

NetworkManager.swift

```
//
//  NetworkManager.swift
//  test
//
//  Created by Егор Шкарин on 06.01.2022.
//
```

```
import
```

```
protocol NetworkManagerProtocol
```

```

final class NetworkManager
    func getData completion @escaping Result Data Error
        guard let URL string
"http://api.spoonacular.com/recipes/random?number=50&apiKey=f6b4e0c5cc9842728
3e493660a3e3d4c" else return
        let URLRequest url
URLSession shared dataTask with in
            if let
                failure

            guard let
            else
                return

                success

        resume

```

KingFisherManager.swift

```

//
// NetworkManager.swift
// test
//
// Created by Егор Шкарин on 06.01.2022.
//

```

```
import
```

```
protocol NetworkManagerProtocol
```

```

final class NetworkManager
    func getData completion @escaping Result Data Error
        guard let URL string
"http://api.spoonacular.com/recipes/random?number=50&apiKey=f6b4e0c5cc9842728
3e493660a3e3d4c" else return
        let URLRequest url
URLSession shared dataTask with in
            if let
                failure

            guard let
            else
                return

                success

        resume

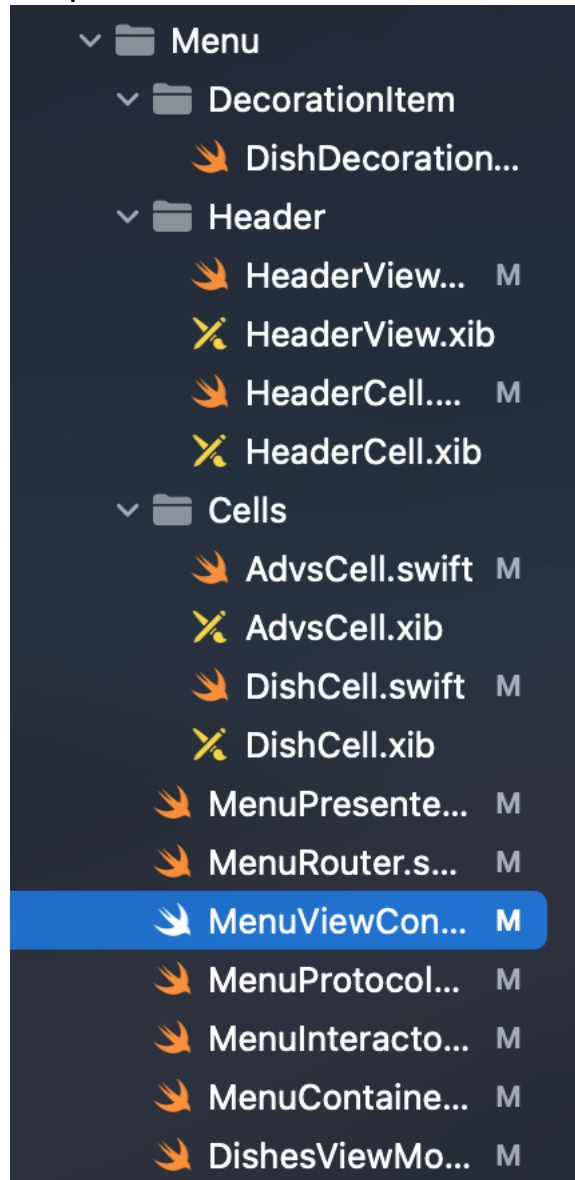
```

## ReuseIdentifier.swift

```
//  
// ReuseIdentifier.swift  
// test  
//  
// Created by Егор Шкарин on 11.01.2022.  
//  
  
import Foundation  
  
protocol ReuseIdentifiable  
    static var reuseIdentifier: String { get }  
  
extension ReuseIdentifiable  
    static var reuseIdentifier: String  
        return String(describing: self)  
  
    static var nibName: String  
        return String(describing: self)  
  
extension UITableViewCell: ReuseIdentifiable  
  
extension UITableViewHeaderFooterView: ReuseIdentifiable  
  
extension UICollectionReusableView: ReuseIdentifiable  
  
extension UICollectionView  
    func dequeueReusableCell<T>(indexPath: IndexPath, cellType: T.Type) for  
        reuseIdentifier: String  
        guard let cell = self.dequeueReusableCell(withIdentifier: reuseIdentifier, for: indexPath) as T else  
            fatalError("Can't deque")  
  
        return cell  
  
extension UITableView  
    func dequeueReusableCell<T>(indexPath: IndexPath, cellType: T.Type) for  
        reuseIdentifier: String  
        guard let cell = self.dequeueReusableCell(withIdentifier: reuseIdentifier, for: indexPath) as T else  
            fatalError("Can't deque")  
  
        return cell
```

```
func register      UITableViewCellStyleType
self register      forCellReuseIdentifier
reuseIdentifier
```

Последующие файлы копировать очень затруднительно, поэтому я приложу скрины из иерархии проекта.



 MenuViewCon... M

 MenuProtocol... M

 MenuInteract... M

 MenuContaine... M

 DishesViewMo... M

>  Profile

>  Basket

>  Contacts

✓  Product

✓  Views

 ParalaxTable... A

 TextCell.swift A

 ProductPrese... A

 ProductRouter... A

 ProductViewC... A

 ProductProtoc... A

 ProductIntera... A

 ProductContai... A

 ProductViewM... A

✓  Products













