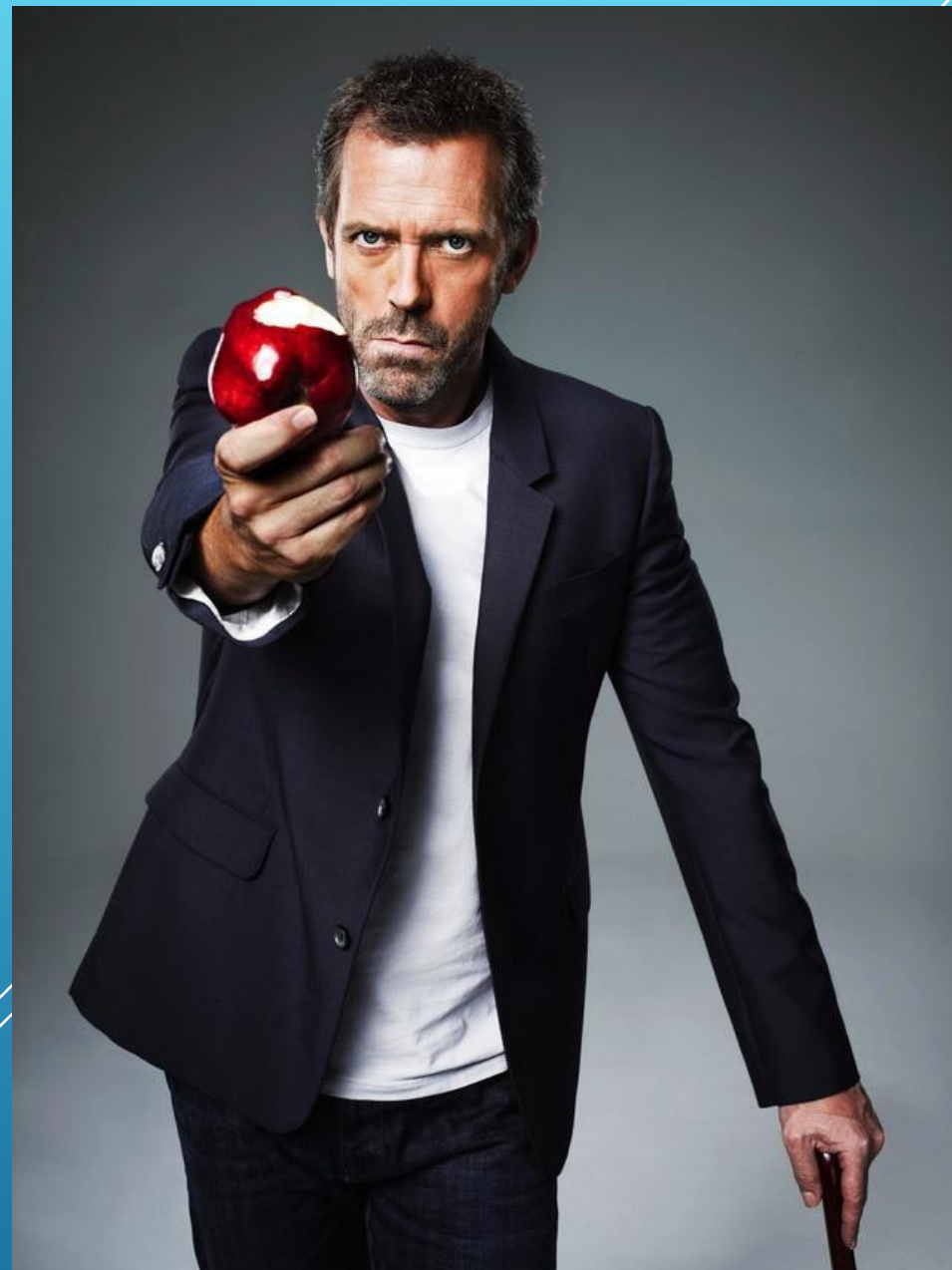


# Исповедь "Яблочного" тестировщика

Или как тестировать iOS приложения

Шарипов Александр  
QA Lead дизайн студии **7-40**



# ТЕСТИРОВАНИЕ ПРИЛОЖЕНИЯ ДЛЯ IOS. С ЧЕГО НАЧАТЬ?



ЗАВЕДИТЕ APPLE ID, ЭТО МОДНО 😊

# Your account for everything Apple.

A single Apple ID and password gives you access to all Apple services.

[Learn more about Apple ID](#)



[Create your Apple ID](#)

# ПРАВИЛА ВЫКЛАДЫВАНИЯ ПРИЛОЖЕНИЯ В STORE

## App Store Review Guidelines

<https://developer.apple.com/app-store/review/guidelines/>

A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

# App Store Review Guidelines

## Introduction

Apps are changing the world, enriching people's lives, and enabling developers like you to innovate like never before. As a result, the App Store has grown into an exciting and vibrant ecosystem for millions of developers and more than a billion users. Whether you are a first time developer or a large team of experienced programmers, we are excited that you are creating apps for the App Store and want to help you understand our guidelines so you can be confident your app will get through the review process quickly.

The guiding principle of the App Store is simple - we want to provide a safe experience for users to get apps and a great opportunity for all developers to be successful. We have updated the App Review Guidelines with that principle in mind. The guidelines themselves haven't changed, but they are better organized and provide more context. On the following pages you will find guidelines arranged into five clear sections: Safety, Performance, Business, Design, and Legal. A few other points to keep in mind:

- We have lots of kids downloading lots of apps. Parental controls work great to protect kids, but you have to do your part too. So know that we're keeping an eye out for the kids.
- If your app looks like it was cobbled together in a few days, or you're trying to get your first practice app into the store to impress your friends, please brace yourself for rejection. We have lots of serious developers who don't want their quality apps to be surrounded by amateur hour.
- We will reject apps for any content or behavior that we believe is over the line. What line, you ask? Well, as a Supreme Court Justice once said, "I'll know it when I see it". And we think that you will also know it when you cross it.

# Table of Contents

**Before You Submit** – a pre-review checklist

## 1. Safety

- 1.1 Objectionable Content
- 1.2 User Generated Content
- 1.3 Kids Category
- 1.4 Physical Harm
- 1.5 Developer Information

## 2. Performance

- 2.1 App Completeness
- 2.2 Beta Testing
- 2.3 Accurate Metadata
- 2.4 Hardware Compatibility
- 2.5 Software Requirements

## 3. Business

- 3.1 Payments
  - 3.1.1 In-App Purchase
  - 3.1.2 Subscriptions
  - 3.1.3 Content-based “Reader” Apps
  - 3.1.4 Content Codes
  - 3.1.5 Physical Goods and Services Outside of the App
  - 3.1.6 Apple Pay
- 3.2 Other Business Model Issues
  - 3.2.1 Acceptable
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#### 4. Design

- 4.1 Copycats
- 4.2 Minimum Functionality
- 4.3 Spam
- 4.4 Extensions
- 4.5 Apple Sites and Services

#### 5. Legal

- 5.1 Privacy
  - 5.1.1 Data Collection and Storage
  - 5.1.2 Data Use and Sharing
  - 5.1.3 Health and Health Research
  - 5.1.4 Kids
  - 5.1.5 Location Services
- 5.2 Intellectual Property
- 5.3 Gaming, Gambling, and Lotteries

#### After You Submit – what to expect

---

## Before You Submit

To help your app approval go as smoothly as possible, review the common missteps listed below that can slow down the review process or trigger a rejection. This doesn't replace the guidelines or guarantee approval, but making sure you can check every item on the list is a good start.

Make sure you:

А ЧТО ЖЕ ДЕЛАТЬ С UI?





# ТРЕБОВАНИЯ К UI ПРИЛОЖЕНИЯ

**iOS Human Interface Guidelines**

**<https://developer.apple.com/ios/human-interface-guidelines/overview/design-principles/>**

A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against the blue background.

# iOS Human Interface Guidelines

The world's most advanced mobile OS offers everything you need to design beautiful, engaging apps that radiate power and simplicity.

Overview ▾

Design Principles

What's New in iOS 10

Interface Essentials

Interaction

Features

Visual Design

Graphics

UI Bars

UI Views

UI Controls

Extensions

Technologies

Resources



As an app designer, you have the opportunity to deliver an extraordinary product that rises to the top of the App Store charts. To do so, you'll need to meet high expectations for quality and functionality.

Three primary themes differentiate iOS from other platforms:

- **Clarity.** Throughout the system, text is legible at every size, icons are precise and lucid, adornments are subtle and

У ВАС ЕСТЬ ЗНАНИЯ, У ВАС ЕСТЬ IPHONE




# НАЗНАЧАЕМ РОЛИ, УПРАВЛЯЕМ ПРИЛОЖЕНИЕМ

**Знакомимся с iTUNES CONNECT**

**<https://itunesconnect.apple.com/login>**

A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

### iTunes Connect

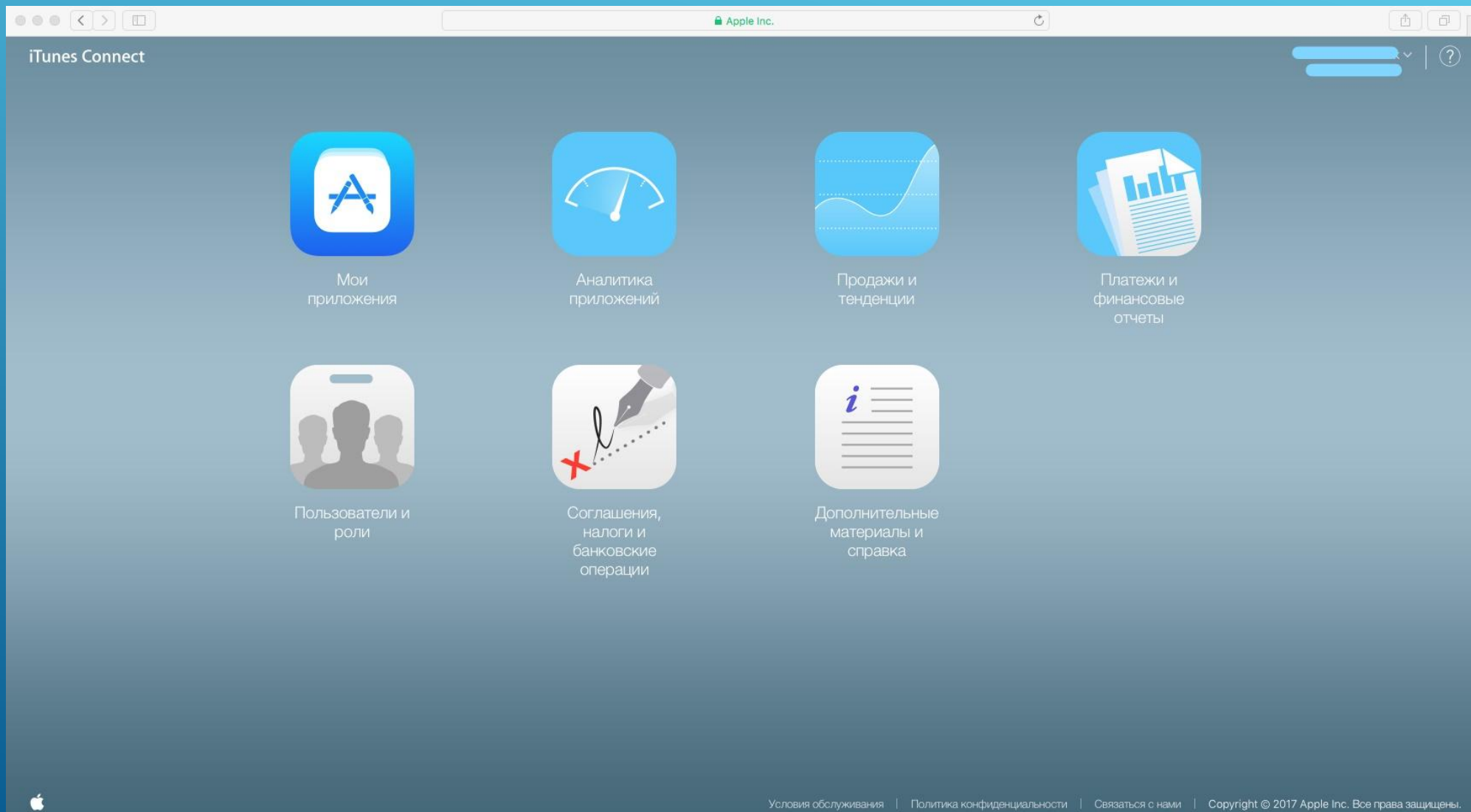


Запомнить меня

[Забыли Apple ID или пароль?](#)



# НАЗНАЧАЕМ РОЛИ



# iTunes Connect Пользователи и роли



Пользователи iTunes Connect   [Бета-тестировщики TestFlight](#)   [Тестировщики Sandbox](#)

Пользователи (9) +

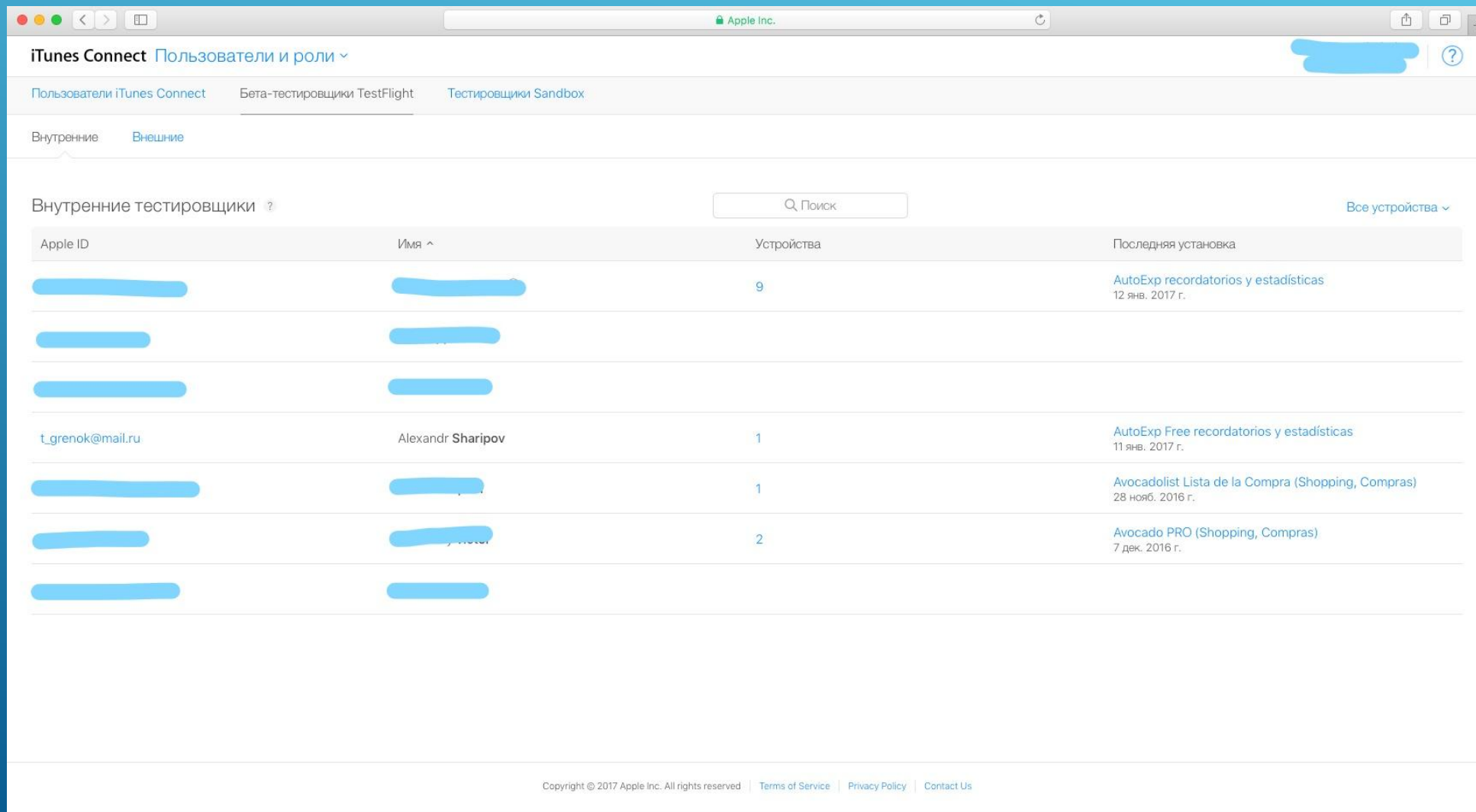
Поиск

Все приложения ▾   Все роли ▾

Редактировать

| Apple ID         | Имя ^             | Роль                         | Приложения  |
|------------------|-------------------|------------------------------|---|
| [REDACTED]       | [REDACTED]        | Администратор, Юр. поддержка | Все приложения  |
| [REDACTED]       | [REDACTED]        | Маркетинг, Отчеты, Продажи   | Все приложения  |
| [REDACTED]       | [REDACTED]        | Разработчик                  | Все приложения  |
| [REDACTED]       | [REDACTED]        | Маркетинг, Продажи           |   |
| [REDACTED]       | [REDACTED]        | Маркетинг, Отчеты, Продажи   | Все приложения  |
| t_grenok@mail.ru | Alexandr Sharipov | Разработчик                  | <a href="#">Все приложения</a>  |
| [REDACTED]       | [REDACTED]        | Администратор                | Все приложения  |
| [REDACTED]       | [REDACTED]        | Разработчик                  | <a href="#">Все приложения</a>  |
| [REDACTED]       | [REDACTED]        | Маркетинг, Отчеты, Продажи   | Все приложения  |

# ДОБАВИМ ТЕСТИРОВЩИКА TESTFLIGHT



The screenshot shows the iTunes Connect interface for managing users and roles. The page is titled "iTunes Connect Пользователи и роли" and has tabs for "Пользователи iTunes Connect", "Бета-тестировщики TestFlight", and "Тестировщики Sandbox". The "Внутренние" (Internal) tab is selected. A search bar and a "Все устройства" (All devices) dropdown are visible. A table lists internal testers with columns for Apple ID, Name, Devices, and Last installation.

| Apple ID         | Имя ^             | Устройства | Последняя установка   |
|------------------|-------------------|------------|---|
| [REDACTED]       | [REDACTED]        | 9          | AutoExp recordatorios y estadísticas<br>12 янв. 2017 г.                 |
| [REDACTED]       | [REDACTED]        |            |   |
| [REDACTED]       | [REDACTED]        |            |   |
| t_grenok@mail.ru | Alexandr Sharipov | 1          | AutoExp Free recordatorios y estadísticas<br>11 янв. 2017 г.            |
| [REDACTED]       | [REDACTED]        | 1          | Avocadolista Lista de la Compra (Shopping, Compras)<br>28 нояб. 2016 г. |
| [REDACTED]       | [REDACTED]        | 2          | Avocado PRO (Shopping, Compras)<br>7 дек. 2016 г.                       |
| [REDACTED]       | [REDACTED]        |            |   |

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ЧТО ТАКОЕ TESTFLIGHT?



**TestFlight**

iOS Beta Testing On The Fly

## TestFlight

**Updates** 1



**Apple Store**  
Expires in 29 days  
Apple Inc.

UPDATE

**Testing** 4



**Pages**  
Expires in 24 days  
Apple Inc.

OPEN

---



**Numbers**  
Expires in 18 days  
Apple Inc.

OPEN


---



**Keynote**  
Expires in 5 days  
Apple Inc.

OPEN

---




**GarageBand**  
Expires in 3 days  
Apple Inc.

OPEN

Apple ID: emily@icloud.com


[Terms and Conditions >](#)

## < TestFlight



**Apple Store**  
Version 3.3.1 (100)  
Apple Inc.

UPDATE

 Offers Apple Watch App

Send Feedback

**What to Test**

- Use Touch ID to view orders and access EasyPay receipts.
- Make a reservation at an Apple Store.
- Test support for two-step verification.
- Check Apple Watch support for order status updates.
- Check Apple Watch support for Genius Bar reservations.
- Check Apple Watch support for nearby in-store events and workshops.

**Description**

Shop for Apple products and accessories, and get the most from your visits to the Apple Retail Store. Start your order on one device and finish it on another. Get items... [more](#)

**Information**

|               |   |
|---------------|---|
| Developer     | Apple   |
| Release Date  | June 16, 2015   |
| Version       | 3.3.1 (100)   |
| Size          | 22.3 MB   |
| Expires       | July 16, 2015 at 5:00pm   |
| Compatibility | Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch. This app is optimized for iPhone 5, iPhone 6, and iPhone 6 Plus. |

Done
Settings
Edit

You can accept invites with your current Apple ID, even if the invite email and the Apple ID don't match. To use another Apple ID, go to Settings > iTunes & App Store.

**Apple ID: j.appleseed@icloud.com**

Current Device



**John's iPhone**  
iPhone 6 (iOS 8.4)

Other Devices

Tap Edit to remove any unused devices.



**John's iPad Air**  
iPad Air (iOS 8.0)

---



**John's iPod touch**  
iPod touch (iOS 8.0)

---



**John's iPad mini**  
iPad mini (iOS 8.0)

Version 1.2.0 (90)

For additional help, see the [FAQ](#).

[Terms and Conditions](#)

Я ПРОДВИНУТЫЙ QA И МОГУ САМ  
ДЕПЛОИТЬ БИЛДЫ НА ДЕВАЙСЫ



# XCODЕ – ЧТО ЭТО, И КАК ~~САОМАТЬ~~ ИСПОЛЬЗОВАТЬ



AutoExp

- Launch Screen.xib
- GoogleMobileAds.framework
- AutoExp.entitlements
- AutoExpFree.entitlements
- Autoexp
- Unit Tests
- Integration Tests
- AutoExpenses
- Frameworks
- Products
- Pods

```

1 //
2 //
3 // main.m
4 // Car
5 //
6 // Created by Mykola Pashkovskiy on 3/27/14.
7 // Copyright (c) 2014 ONPU. All rights reserved.
8 //
9
10 #import "CarAppDelegate.h"
11
12 int main(int argc, char* argv[])
13 {
14     @autoreleasepool
15     {
16         [StringLocalizer localizeSystemStrings];
17         return UIApplicationMain(argc, argv, nil, NSStringFromClass([CarAppDelegate class]));
18     }
19 }
20

```

Identity and Type

Name: main.m  
 Type: Default - Objective-C Sou...  
 Location: Relative to Group  
 Full Path: /Users/new-mac/Desktop/icar/Car/main.m

On Demand Resource Tags  
 Only resources are taggable

Target Membership

- AutoExp
- AutoExpFree
- AutoExpenses
- AutoExpensesFree
- Unit Tests
- Integration Tests
- Acceptance Tests

Text Settings

Text Encoding: Unicode (UTF-8)  
 Line Endings: Default - macOS / Unix (LF)  
 Indent Using: Spaces  
 Widths: 4 Tab 4 Indent  
 Wrap lines

Filter

Auto

```

2017-01-17 16:55:06.158226 AutoExp[4619:1756699] [] nw_socket_get_input_frames recvmsg(fd 4, 1024 bytes): [57] Socket is not connected
2017-01-17 16:55:06.376517 AutoExp[4619:1756699] [] nw_endpoint_handler_add_write_request [8.1 107.21.250.127:443 failed socket-flow (satisfied)] cannot accept write requests
2017-01-17 16:55:06.418745 AutoExp[4619:1756874] [] __tcp_connection_write_eof_block_invoke Write close callback received error: [22] Invalid argument
2017-01-17 17:04:37.231846 AutoExp[4619:1759409] [] nw_socket_get_input_frames recvmsg(fd 4, 1024 bytes): [57] Socket is not connected
2017-01-17 17:04:37.243441 AutoExp[4619:1761540] [] nw_endpoint_handler_add_write_request [9.1 50.19.224.242:443 failed socket-flow (satisfied)] cannot accept write requests
2017-01-17 17:04:37.245467 AutoExp[4619:1759409] [] __tcp_connection_write_eof_block_invoke Write close callback received error: [22] Invalid argument
2017-01-17 17:15:53.298825 AutoExp[4619:1759411] [] nw_socket_get_input_frames recvmsg(fd 4, 1024 bytes): [57] Socket is not connected
2017-01-17 17:15:53.339321 AutoExp[4619:1759411] [] nw_socket_get_input_frames recvmsg(fd 4, 1024 bytes): [57] Socket is not connected
2017-01-17 17:15:53.545666 AutoExp[4619:1759411] [] nw_endpoint_handler_add_write_request [10.1 23.21.162.115:443 failed socket-flow (satisfied)] cannot accept write requests
2017-01-17 17:15:53.561682 AutoExp[4619:1765536] [] __tcp_connection_write_eof_block_invoke Write close callback received error: [22] Invalid argument

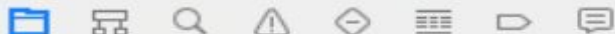
```

All Output

Cocoa Touch Class - A Cocoa Touch class

UI Test Case Class - A class implementing a unit test

Unit Test Case Class - A class implementing a unit test



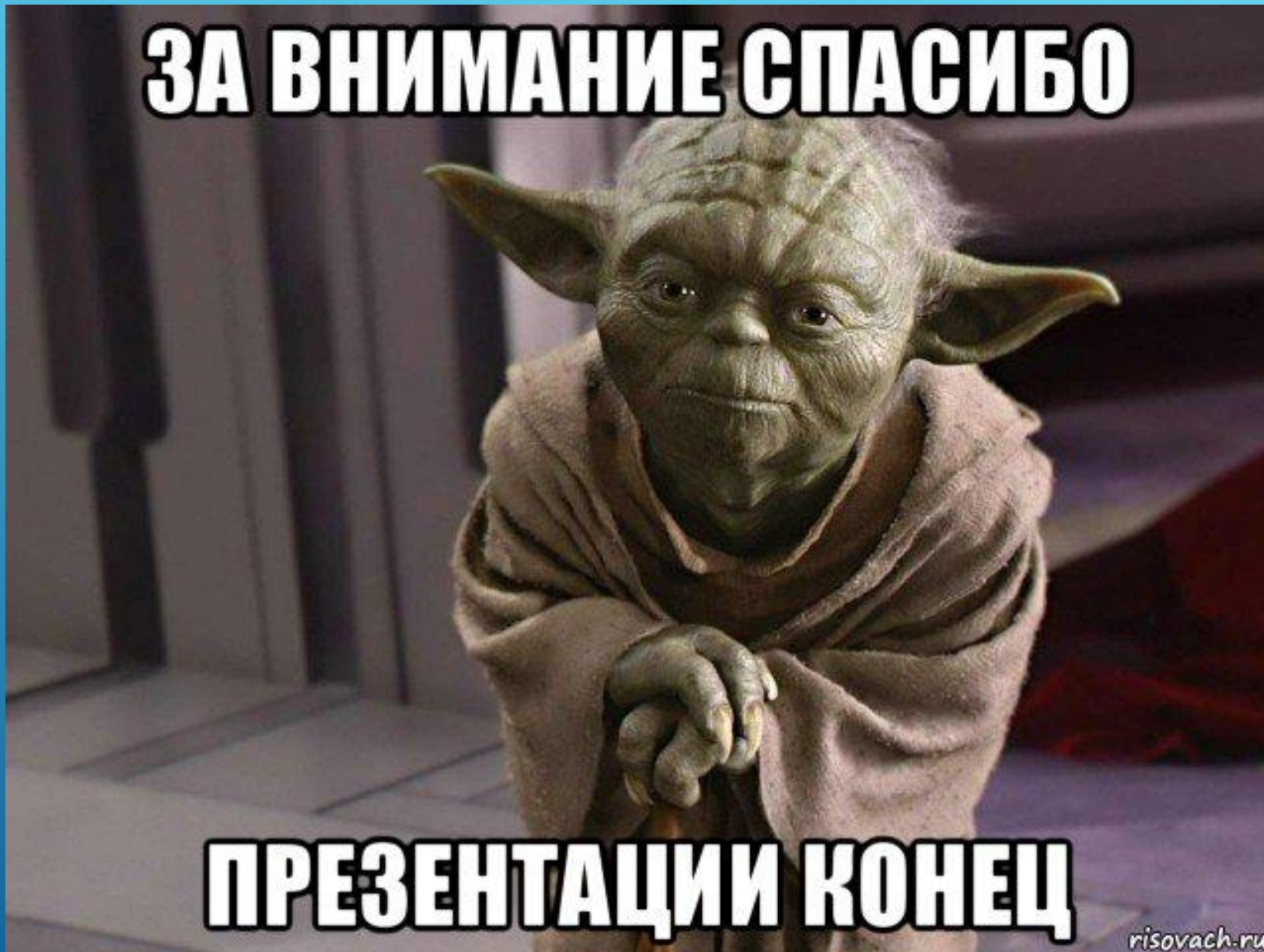
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15     {
16         [StringLocalizer localizeSystemStrings];
17         return UIApplicationMain(argc, argv, nil, NSStringFromClass([CarAppD
18     }
19 }
20 |
    
```



**ЗА ВНИМАНИЕ СПАСИБО**



**ПРЕЗЕНТАЦИИ КОНЕЦ**

risovach.ru



Всю информацию вам оформлял (до 3-х ночи) и рассказал

Шарипов Александр

QA Lead дизайн студии «7-40»

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LinkedIn: <https://ua.linkedin.com/in/alexandr-sharipov-b87468103>

Facebook: <https://www.facebook.com/profile.php?id=100004765262746>

Пожалуй, хватит инфы... и так лишнего сболтнул ©

