



MFManager (v.1.0.1)

Quick Start Guide

Released on Aug 2 2018

Now available on Google Play Store

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INTRODUCTION

This document is designed to guide “MFManager(My Financial Manager)” mobile application users to get started on the app. The introduction includes

1. how to download and install the application
2. how to get started on MFManager

What is MFManager?

MFManager is an Android mobile application which helps the user keep track of all the expenditures and earnings by recording them. It also provides the function that transfers balance of one account to another. It has been released since Aug 1 2018, and available on Google Play Store.

Warnings: This application can only be run on an Android device. It is NOT supported in iOS, or Windows Phone.

What is needed to start using the app?

In order to download the application, have your Android phone ready.

How does it work?

Whenever the user records all his/her financial transactions, then it stores all the data locally (SQLite database) in the user's device with the implementation of Content Provider¹. This greatly improves the accessibility to the app no matter when, no matter where. Also, all the records are only keep in the user's device, it is really safe from any unwanted cyber security attacks

¹ Expanded definition is provided in **TERMINOLOGY** section (see p. 12)

INSTRUCTION

How to install the application on your smartphone

- **From Google Play Store**

1. Execute Google Play Store on your smartphone.
2. Search for “MFManager” - All letters case sensitive
3. Download and Install the app

- **From GitHub**

These steps will walk you through the process of downloading the app from Github.

1. Open the web browser and visit
<https://github.com/czebahi/My-Financial-Manager>
2. Click **app** folder (see Figure 1)

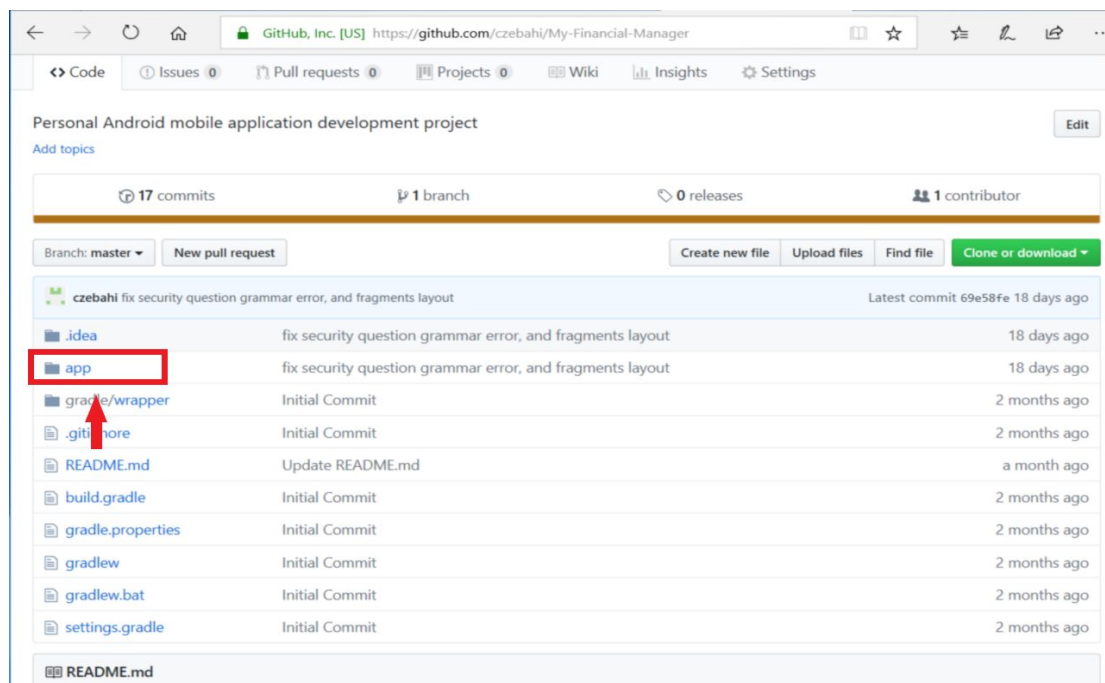


Figure1

Warnings: If you are using mobile device, be sure to view the screen in ‘Desktop version’ screen by clicking ‘Desktop version’ at the bottom of the page.

3. Click **release** folder (see Figure 2)

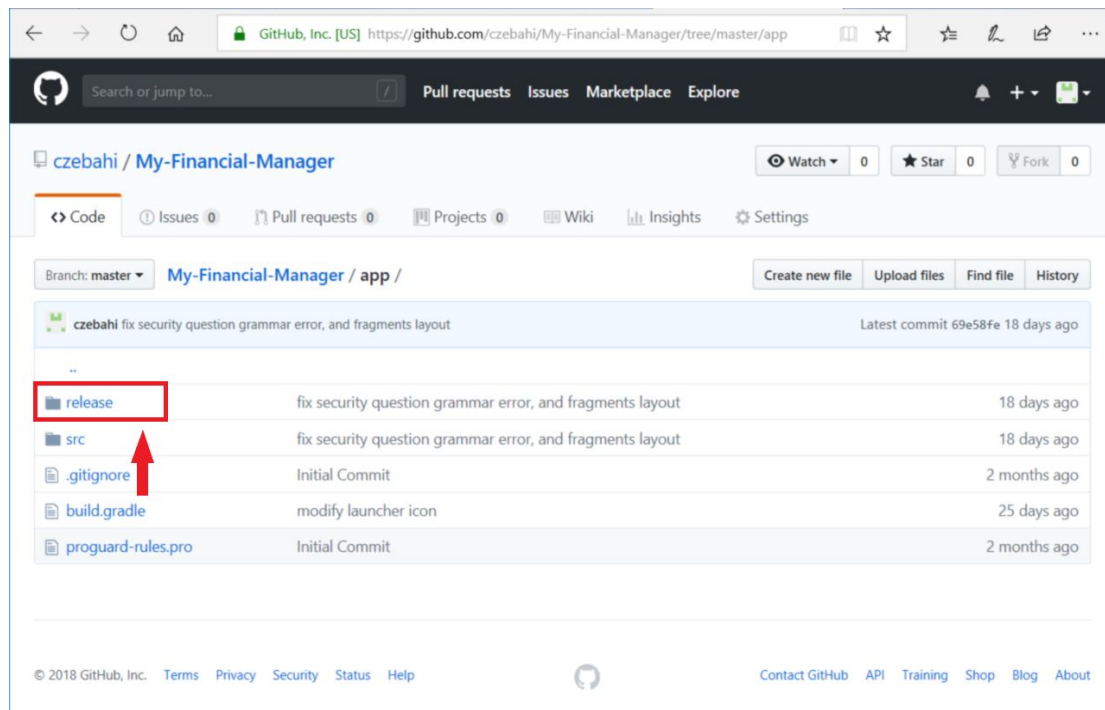


Figure 2

4. Click **app-release.apk** file (see Figure 3)

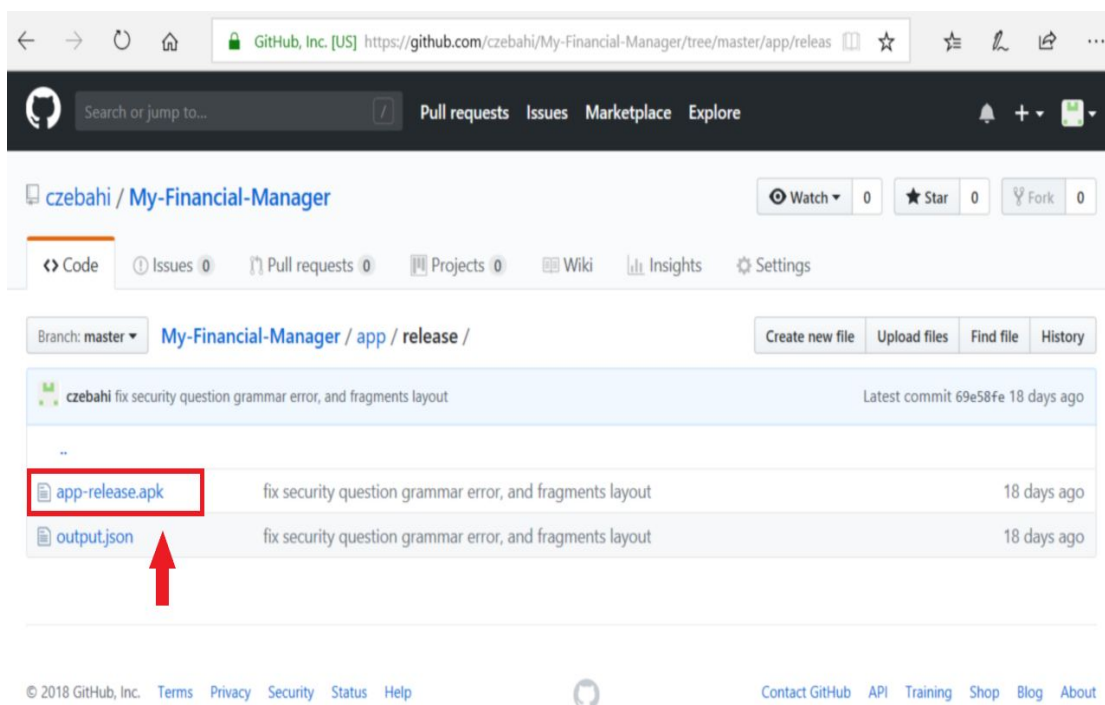


Figure 3

5. Click **Download** button

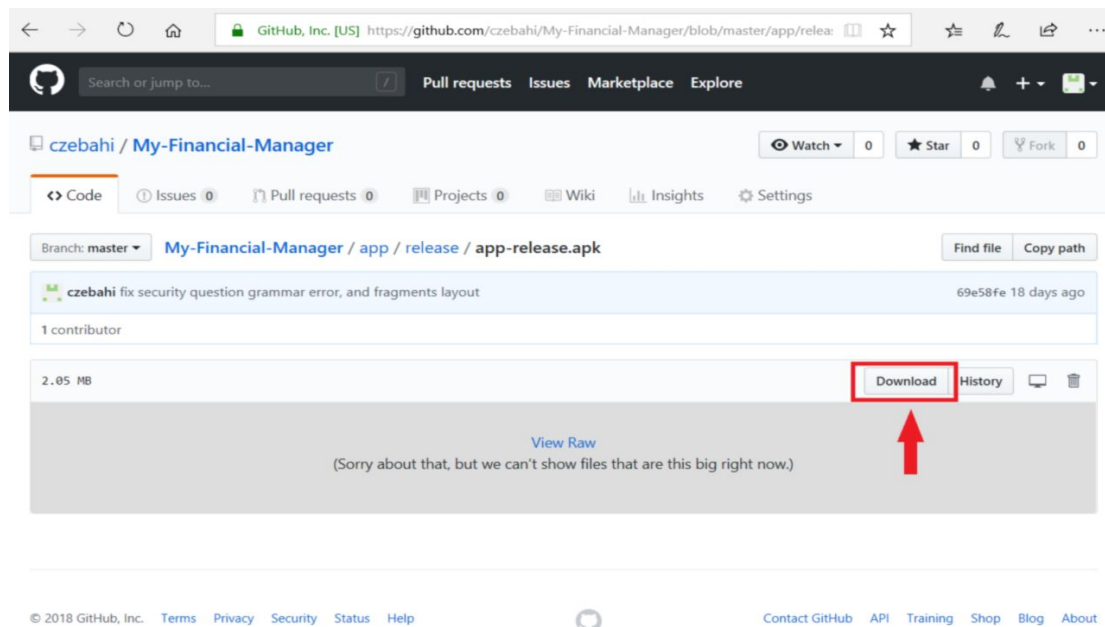


Figure 4

6. Move the apk file to an Android phone

7. Execute the apk file in the device

To install apk file from other than Google Play Store, follow the steps on <https://www.expressvpn.com/support/vpn-setup/enable-apk-installs-android/> and change the configuration for your device.

8. Install the application

How To Get Started On MFManager

These steps will help you get started, configure application settings, and customize the environment by disable the Login function.

1. Execute the application
2. Click **REGISTER** button (see Figure 5)

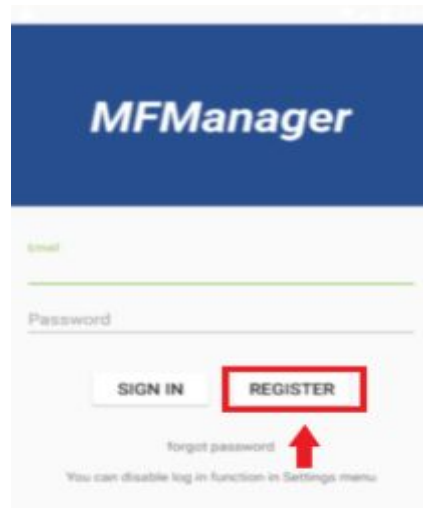


Figure 5

3. Enter the email address and the password
4. Touch **Click to choose your security question** (see Figure 6)

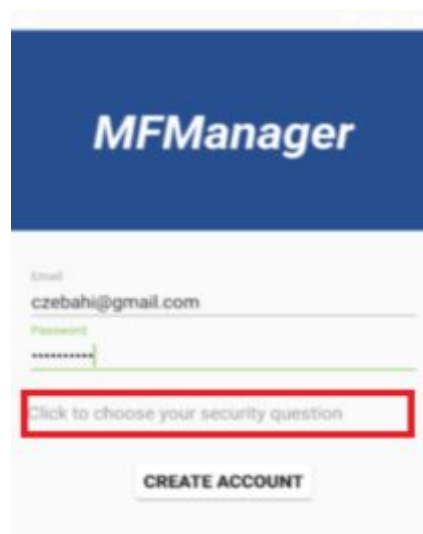


Figure 6

5. Choose 1 security question (see Figure 7)

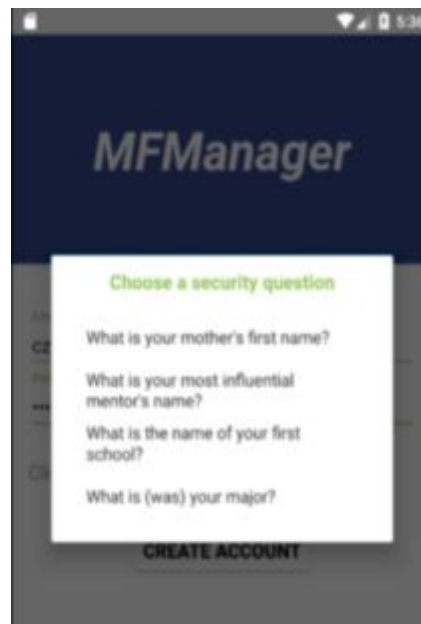


Figure 7

6. Enter your own Answer
7. Click **CREATE ACCOUNT** button (see Figure 8)



Figure 8

8. Enter the email and the password

9. Click **SIGN IN** button (see Figure 9)

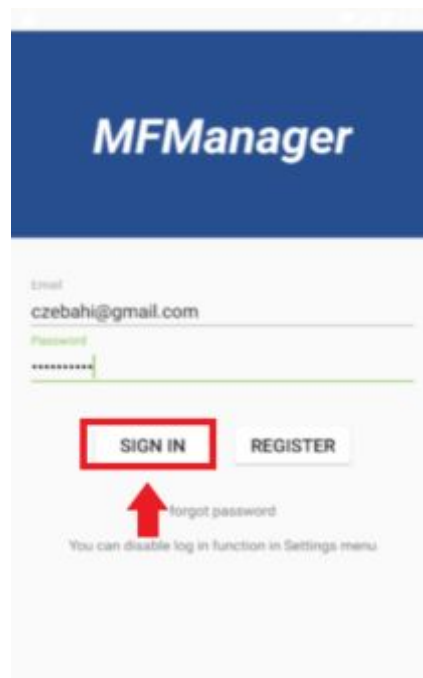


Figure 9

10. Choose the currency (see Figure 10)

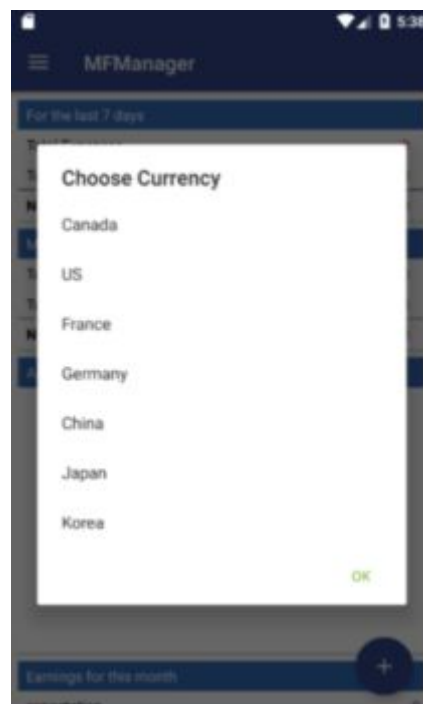


Figure 10

11. Set the default amount of Cash account.

(if not provided, it will be set to 0 by default - see Figure 11)

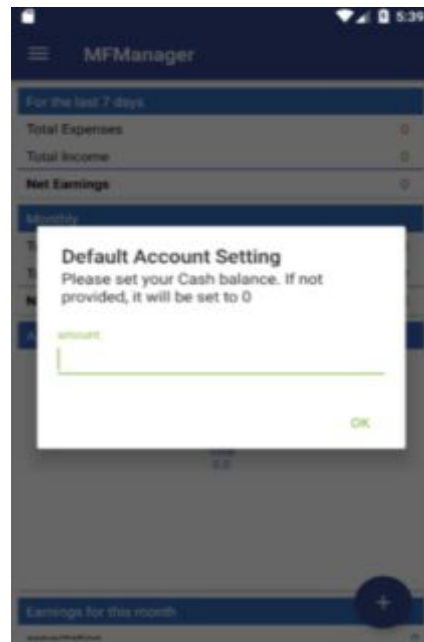


Figure 11

To disable the Log in function

1. Go to **Settings** menu (see Figure 12)

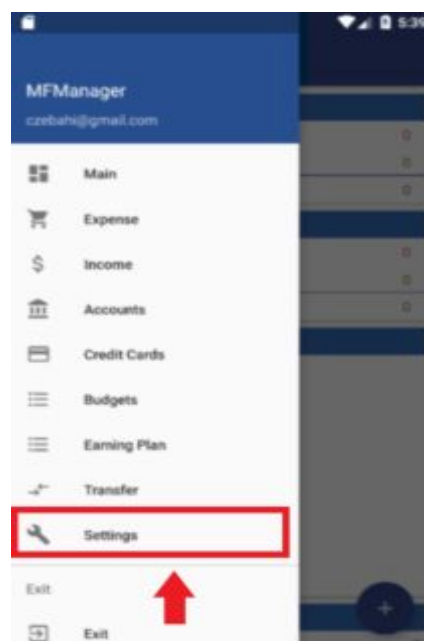


Figure 12

2. Untick **Enable Login** switch (see Figure 13)

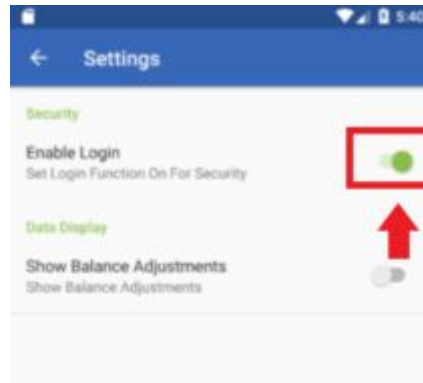


Figure 13

TERMINOLOGY

What is Content Provider?

Term	Class	Features
Content Provider	Data abstraction layer	A tool in Android development framework which shares an application's data with other applications using encapsulation (hiding); also used for the name of the built-in interface "ContentProvider" in Android Framework (Glossary, 2018)

How does Content Provider work?

Using URI - Uniform Resource Identifier, a string value which identifies a specific resource (What is an URI in android, 2015) -, a content provider provides an application's encapsulated and sensitive data to other applications. When another application requests a specific data(resource), the corresponding URI string must be passed to the content provider, then it provides that resource to another app.

The operation process of Content Provider

First, make only one class and make it implement the "Content Provider" interface. Second, explicitly declare the information of authority in the content provider. Third, store all the datas that are to be shared and attach each data to a single URI. Fourth, request the data from other applications by passing the URI information to the content provider (Content Provider, 2018)

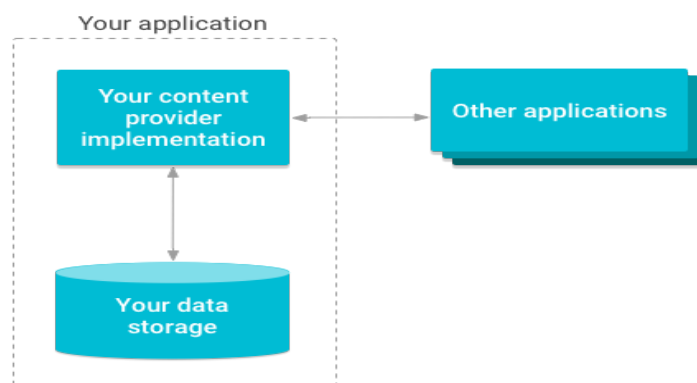


Figure 14. (Overview diagram of how content providers manage access to storage, 2018)

APPENDIX

Record of testing

To enhance the quality of this document and make sure to achieve its purpose, it has gone through testing process.

We have undergone 'Protocol Analysis' with the following 3 participants

- Anjali– This tester is an 19-year-old Indian female who is really fluent in English. She is a student at Georgian College in the Computer Programmer program. She is in her second semester in the program and knows about software really well. Also, she has been using Android phone for quite a lot of time, so she is quite familiar with using Android phone and changing device settings. Therefore, she could be considered advanced user.
- Yuki – This tester is a 26-year-old Japanese male and fluent in English. He is a student at Georgian College in EAP program. He would be considered a novice user because of he has been using iOS phone, NOT an Android phone. So, I had to give my phone to test the instruction since he could not go through the process using his phone. However, for some reasons, the application could not be executed on my device either. Sadly, he could not finish the second task for technical issues.
- Jaehwan - This tester is 41-year-old Korean male and not very good at English. He is a student at Georgian College in Computer Programmer course (currently taking a break). He would be considered an advanced user because he has been using an Android phone for a few years. He had no trouble in changing the security settings of his device to execute the application.

All the 3 testers were given the list of questions (attached in next page) and tell them to go through the steps in my instruction. Also, I told them to ask me for further

information only if it is really needed, and I try NOT to give them additional instructions verbally. As they went over the instruction, I asked them to write down their answers and response. I added an additional question(question 7) to get as many feedbacks from them.

While they were completing their tasks, they were being observed to see if they looked confused or could not proceed to the next step. When they were trying to download the apk file from my GitHub webpage, all of them encountered the same problematic situation where they could not find the 'Download' button. Since the graphics in this document are the screenshots of Desktop UI but all my testers used their mobile phone (second tester used my phone), the 'Download' button did not appear on their screen. Therefore, I had to let them view the web page in 'Desktop version'.

User Feedback

- Graphics are only for desktop version. The document should include screenshots of mobile device as well.
- The figures are a little too small in size and blurry, which made it harder to identify.
- The font size should be bigger.

Changes that has been made

- The instruction now clearly states how to view the desktop screen version in their mobile device.
- The figures underwent clarification process.
- The font size has been changed from 11pt to 12pt.

CONCLUSION

Thank you for your interest in MFManager. This quick start manual is designed to provide brief introduction to using MFManager application. We hope this quick start manual has given you general idea of what the application is as well as its strength.

Want To Know More?

If you still have problem downloading and using this application, you can send your inquiries via email **hongjo1988@gmail.com**

Share Your Thoughts And Send Your Feedback

Thank you very much for using this application. To send your feedback and share your experiences with this application, please email to **hongjo1988@gmail.com**

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