

## Vulnerable Hunter

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### ABSTRACT

This project "VULNERABLE HUNTER" application main aim is to detect risk in our mobile applications. This application contains modules like Fetch Application, Generate Score, Uninstall and Display Graph. Through this application it detects risk so that this application is very useful to smart phone users Now-a-days so many people are using smart phones and people are crazy about new apps. But by installing all the applications into our mobile may reduce its performance. Some apps contain more risk. But user may not know the effects that are caused by the app which is installed until the performance of mobile is reduced. With the prosperity of the Android app economy, many apps have been published and sold in various markets. However, short development applications and insufficient security development apps have led to many vulnerable apps. So to reduce these type of problems Vulnerable Hunter is proposed. Through the proposed application user can see which application is risky and then the user may uninstall that application. The main advantage of designing this app is without internet also the users will use this application. Users also feel more convenient to work with mobile apps.

**Keywords-** Portable.

### I. INTRODUCTION

Vulnerable Hunter is an Android Application .It is used to find out the risk present in the Android Mobile phone. Now-a-days Usage of Android Mobile phones is increasing more and more. Mobile user is also getting into habit of installing all the new applications like Contacts, WhatsApp, Telegram, Hike, Games etc. Now-a-days so many people are using smart phones and people are crazy about new apps. But by installing all the applications into our mobile may reduce its performance. Some apps contains more risk. But user may not know the effects that are caused by the app which is installed until the performance of mobile is reduced. With the prosperity of the Android app economy, many apps have been published and sold in various markets. However, short development applications and insufficient security development apps have led to many vulnerable apps. So to reduce these type of problems Vulnerable Hunter is proposed. Through the proposed application user can see which application is risky and then the user may uninstall that application.

### II. RELATED WORK

In our proposed approach, this application consists of many apps. In this app, we investigate permission based vulnerable signals that use the rarity of critical permissions and pairs of critical permissions. In this approach, initially reported in

permissions that have significant security or privacy impact are identified as critical, and if an app requests a critical permission (or a pair of critical permissions) that is rarely requested by apps in the same category, that app is labelled as vulnerable. Using a binary vulnerable signal, each app is labelled as either vulnerable or not.

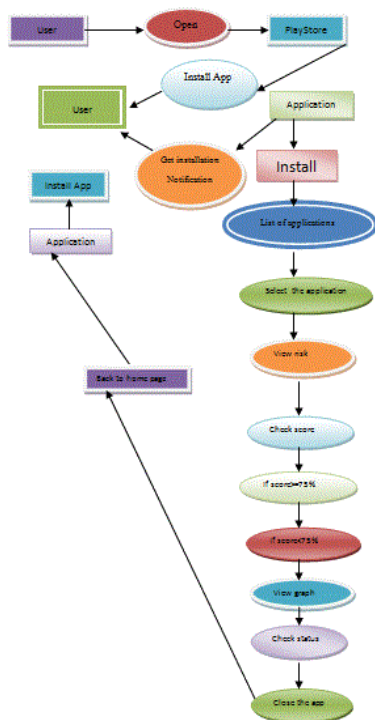
### Advantages

- Displays risk score for all the applications in a graphical view.
- Applications that exceeds predefined risk score may be uninstalled using the uninstall option.
- Data connection is not required.

### Literature Survey

Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language. The basic components of an Android application include Activity, Broadcast Receiver, Service, and Content Provider. Each of these which when used for any application has to be declared in the AndroidManifest.xml. The user interface of the component is determined by the Views. For the Communication among these basic components, use Intents and Intent filters which play crucial role during app development.

### III. SYSTEM ARCHITECTURE



### IV. MODULES

In this project we are using 4 modules

1. Fetch Application
2. Generate Score
3. Uninstall
4. Display Graph

1. **Fetch Application:-**All the applications that are installed in the mobile are fetched into one screen that is the initial screen.
2. **Generate Score:-**Generates the score for each and every application either individually or it generates the score for all the applications at a time in a graphical manner.
3. **Uninstall:-**If the application exceeds the predefined risk score then the uninstall option is displayed by which the user may uninstall that application.
4. **Display Graph:-**When the user wants to see the risk score for all applications at a time, then the user can click on the graph symbol that displays the risk score for all the applications in graphical manner.

### V. RESULTS

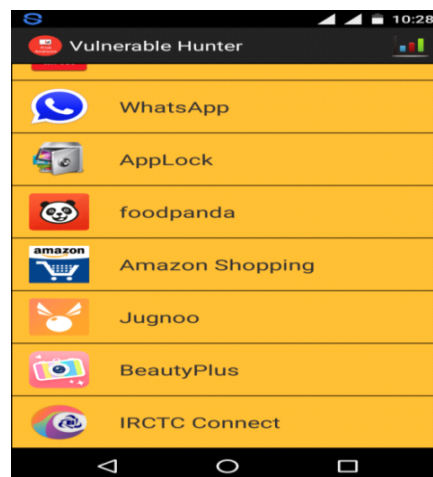


Fig. 5.1: First Screen

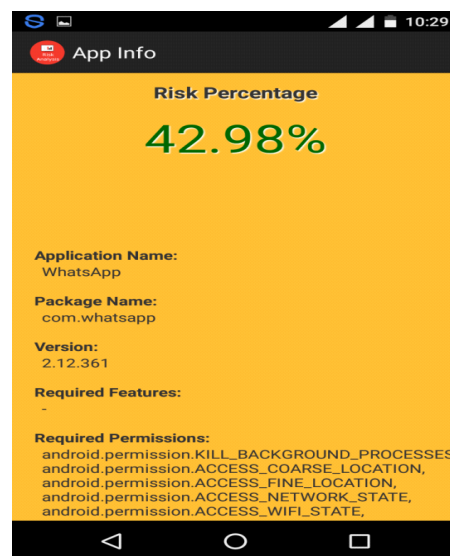


Fig. 5.2: Second Screen

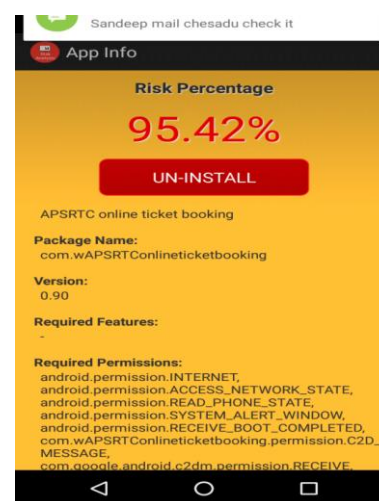


Fig. 5.3: Third Screen

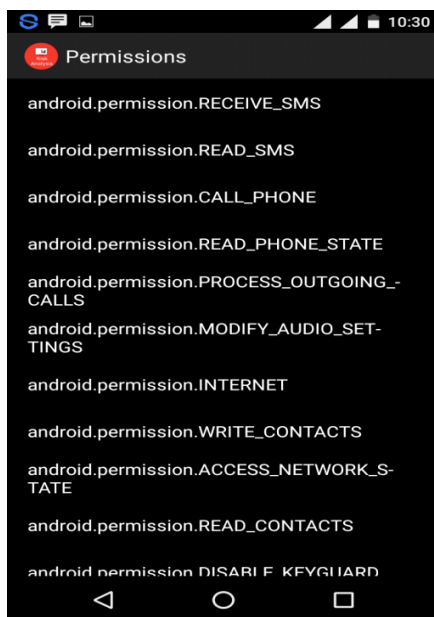


Fig. 5.4: List of Permissions

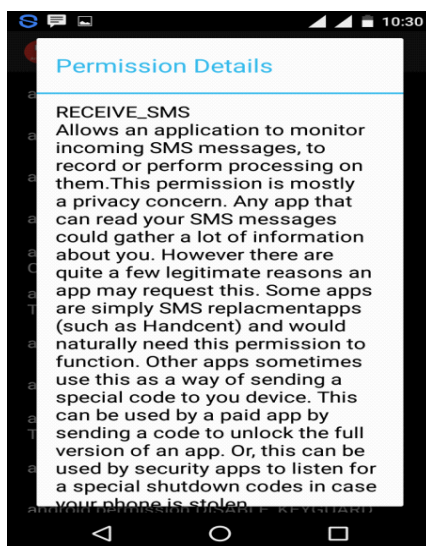


Fig. 5.5: Permission Information

- [3]. Programming Android  
By G. Blake Meike & Masumi Nakamura.
- [4]. Website references used:
- [5]. [www.android.developer.com](http://www.android.developer.com)
- [6]. [www.wikipedia.com](http://www.wikipedia.com)
- [7]. [www.stackoverflow.com](http://www.stackoverflow.com)
- [8]. [www.google.com](http://www.google.com)

## VI. CONCLUSION

“VULNERABLE HUNTER” effectively finds the risk in mobile applications and generates score for each application. It is very useful to all the smart phone users who are crazy about all new applications. So by this application one can avoid the risky applications that causes the decrease in mobile performance.

## REFERENCES

- [1]. Java How To Program, Ninth Edition, Deitel & Deitel.
- [2]. Android Programming : The Big Nerd Ranch Guide By Bill Philips & Brian Hardy.