

User Manual for ShakeDetection Android App

MOBILE APP DEVELOPMENT

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Table of Contents

- [Introduction](#)
- [Getting Started](#)
 - 1. [Installation](#)
 - 2. [How to use](#)
 - 3. [Features](#)

[Troubleshooting](#)

[Safety and disclaimer](#)

Introduction: Welcome to ShakeDetection app

The Shake Detection App uses the phone's accelerometer Sensor to detect shaking motion. Each shake is counted and the total of the shakes is displayed on screen in a time window of 5 seconds. It can be used as simple interactive mini game and I developed this app as my final project for the Mobile Application Development course.

Getting Started

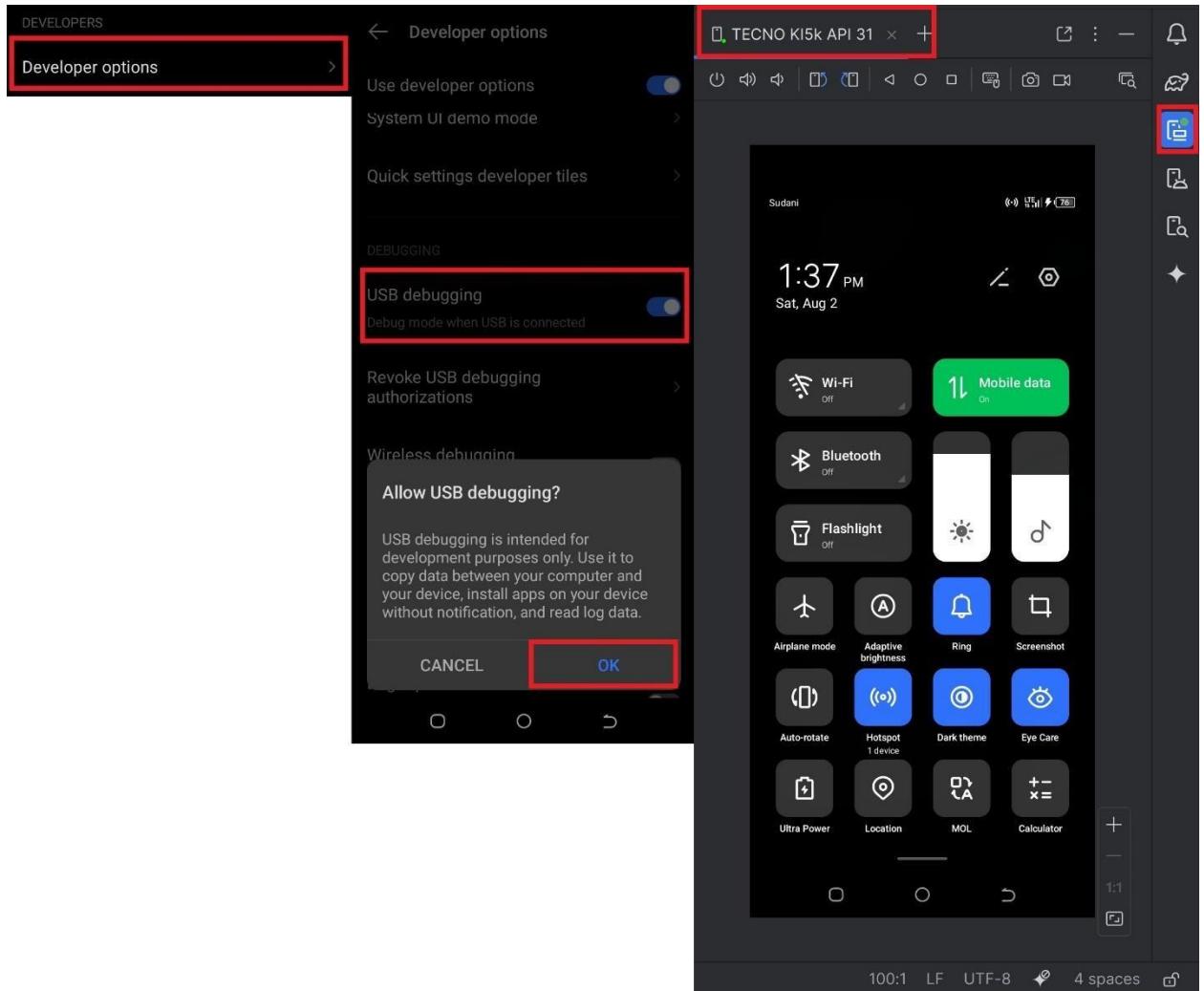
Installation

Option A: Use Android Studio to Install the app

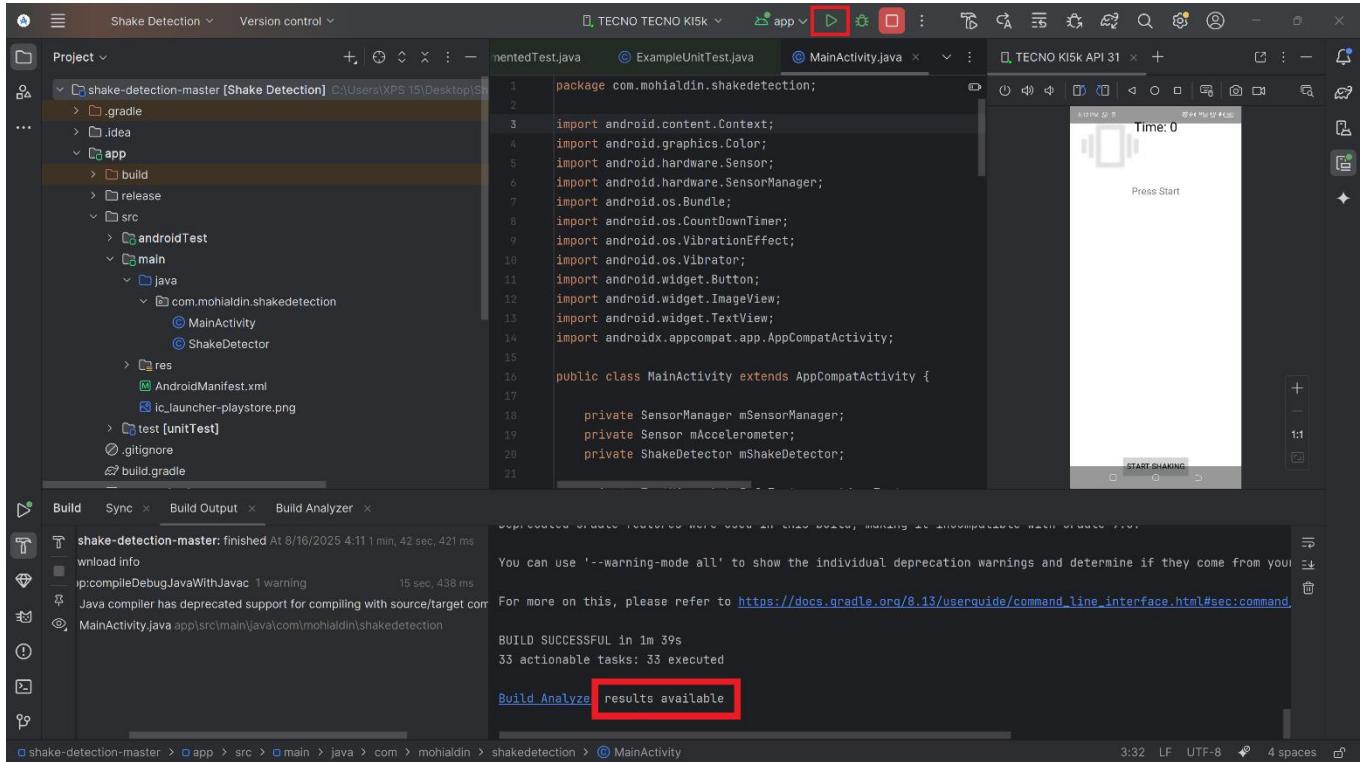
- **Connect Your Android Device:**



- Enable Developer Options and USB Debugging on the phone:
If it's not already Enabled? Just Go to your Phone **Settings > System > About phone > Tap "Build number" seven times**, and you'll get notified that Developer Options is Now Enabled.
- Connect your device using USB and make sure it appears on the Device list.

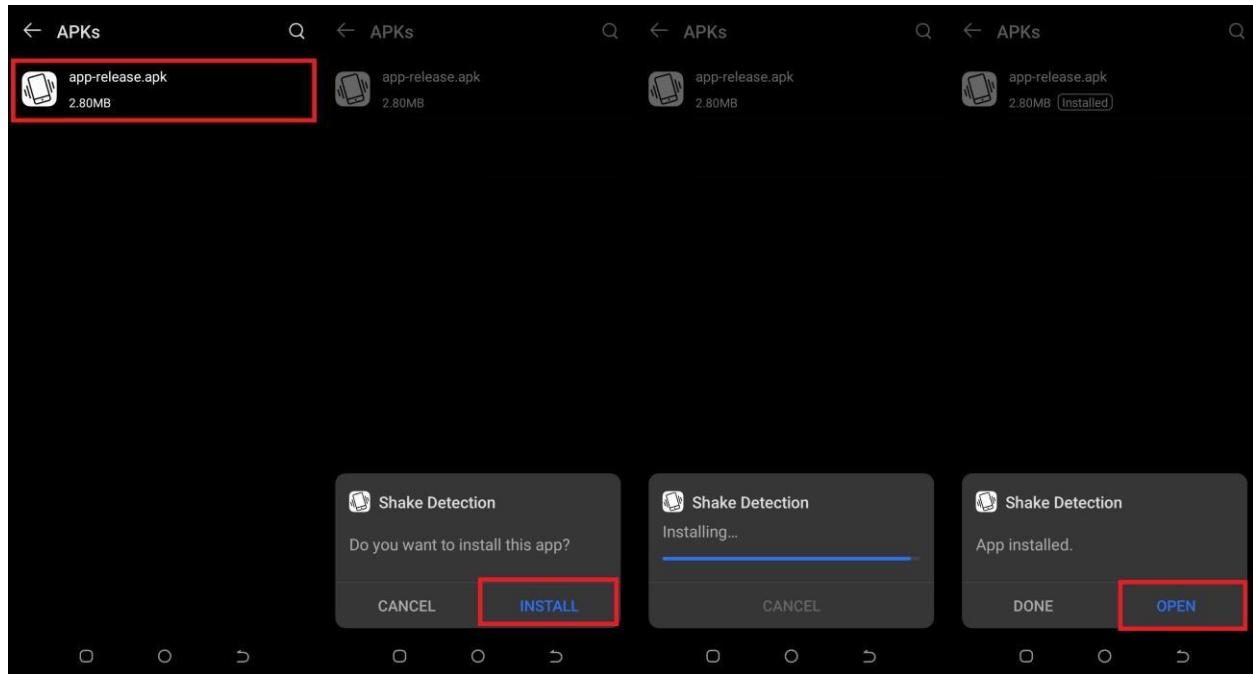


- Open your android studio project > click the Run button from top > when you see “results available” in the build output your App will automatically get launched.



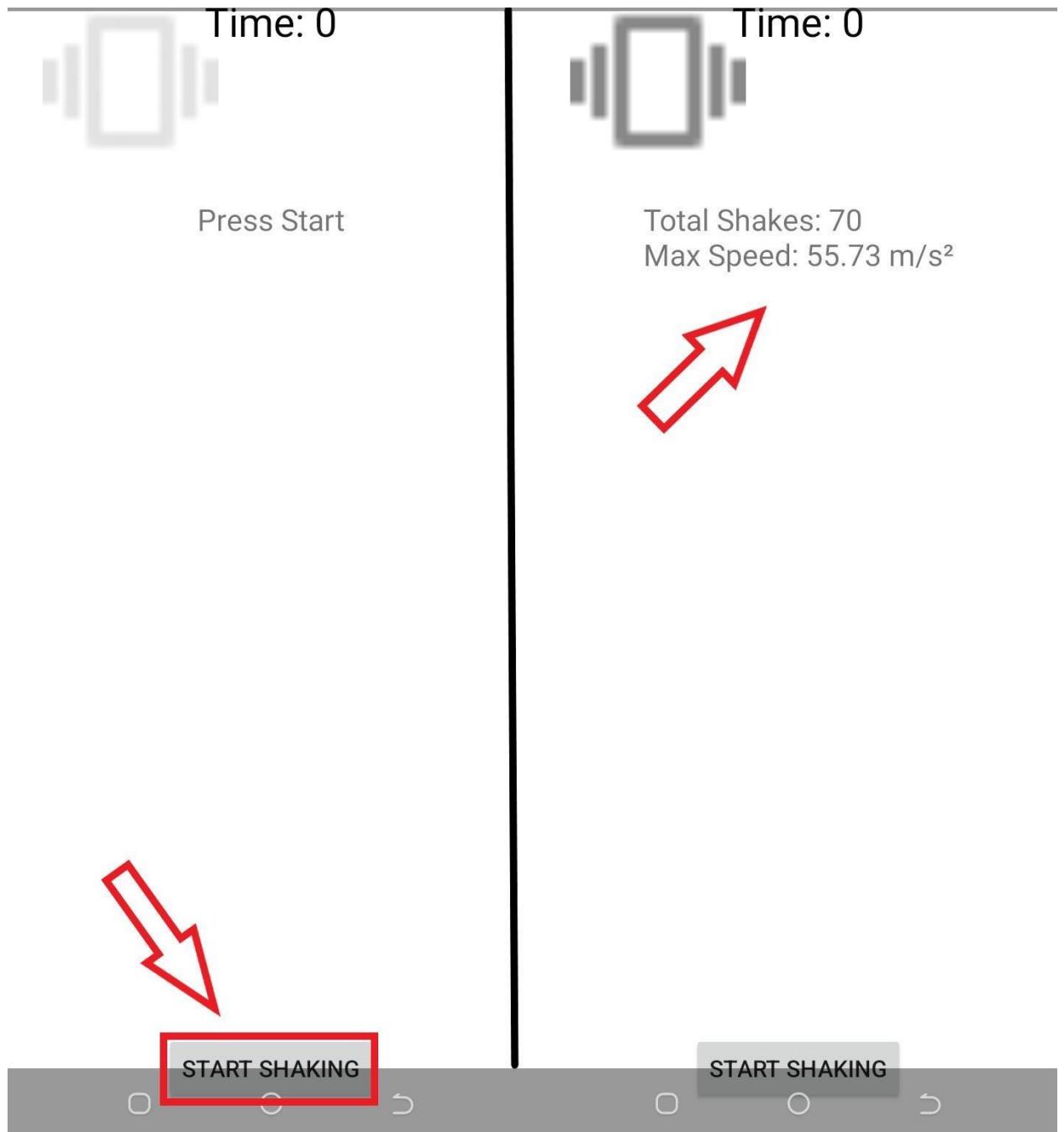
Option B: Install APK manually

- Build the apk using android studio Building Settings, and then go to phone folders > apks > search and find the apk and then follow the steps on the next provided image.



How to Use

1. Open the app.
2. Tap "**start Shaking**" and Shake the phone and after five seconds the app will tell the count and the speed of the shakes.
3. Tap "**start shaking**" to start again.



Features

- Display Shakes **Count** and **Speed**.
- **Vibration**.
- Play again by simply tap **start shaking**

Troubleshooting

problem	Solution
Shakes not detected	Make sure accelerometer is active
No feedback	Check vibration settings
App crashes	Reinstall

Safety and Disclaimer

- Do not shake the phone too hard.
- This app does not collect any personal data.
- Use at your own risk, Developer is not liable for hardware damage.