

# Biometrics

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**Abstract-** Now days biometrics take place of password login and every mobile, laptop even TV also works on voice command. My project is industrial define at Prime a System pvt ltd which works on telecommunication products. Every smartphone, mobile computer, laptop has finger print sensor and every android device have “ok google” voice command service so in project I use this biometrics feature to company product for easy access.

**Keywords-** Android Studio platform, UI design with xml, Choose image, JAVA in backend, One-time login system, Fast login.

## I. INTRODUCTION

Fingerprint login is use for fast login without entering password or username. In this company they have issue when they open admin side application every time, they need to enter username and password. My project is that sync their username and password to fingerprints which user save on their android devices. By using this module, they can login faster only just tap on fingerprint sensor. This module also works on sharing mode device which are used in hospitals, restaurants, companies and also on social media applications.

My project’s second module is that on “ok google” voice command action. Google provide us voice command action API for using mobile without touch like “set alarm”, “make phone call”, open applications and web link etc. I set voice command to their telecommunication product to make call by “ok google” voice action.

Android Studio is best platform to develop application module. It gives us to create UI easily using xml. In backend it gives two languages Java and Kotlin. I preferred Java for backend for many resources easily available on internet. For using java libraries and classes I install java jdk.

## II. LITERATUREREVIEW

A. Android Studio is an open source platform for developing application. Android Studio is official IDE. It is purpose-built for Android to accelerate your development and help you build the highest quality apps for every android

device. The code editor of platform helps you write better code, work faster and be more productive by offering advanced code completion, refactoring and code analysis.

- B. Android Studio is robust and flexible build system. The Android emulator installs and start your apps faster than real device and allows you to test tour app on various android device like phone, tablets, android watch, android TV etc.
- C. Android studio support java for backend. Java is well known and easy for coding and also many resources available on internet for help. For UI developing Android Studio provide resources and xml for easy and fast.

## III. STUDIESAND FINDINGS

- A. First of all, my project is on android platform so I need to learn how to develop android application on Android Studio.
- B. In current system we use fingerprint sensor of Android device only for unlock screen lock. We can also use that in different way like login and security on app open. I need to find out where android stored fingerprints of user and in which form it is stored. Then how to map it to username and password for login.
- C. For the second module I need to find out how “ok google” accept the voice command and how I can pass my voice command in java for take action.
- D. For biometrics login basic thing is that your device has minimum android 6.0 or higher version. Device must have fingerprint sensor.
- E. System should be able to one-time login. It provides user- admin communication. It provides highest access of data. It provides secure accessibility

## IV. FUTURE ENHANCEMENT

I put location and timer for company purpose to check where and how many times they login on admin side application. If android gives us access fingerprint store so I can set multiple user login in one android device.

## V. CONCLUSION

This module helps for faster login and don't need to enter even username and password every time. Voice command module take easy to use application.

## VI. ACKNOWLEDGMENT

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