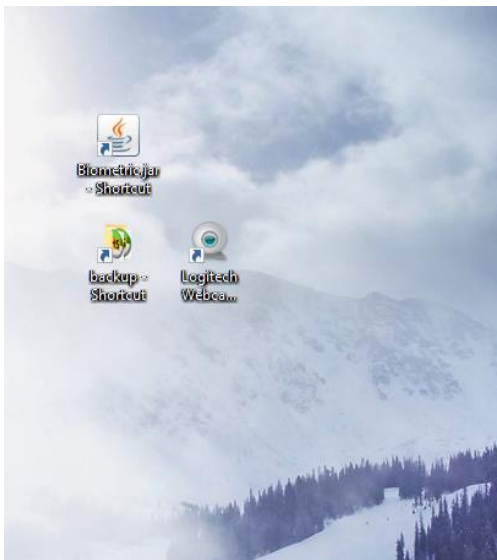![Techsavanna logo - People . Technology . Simple Life]

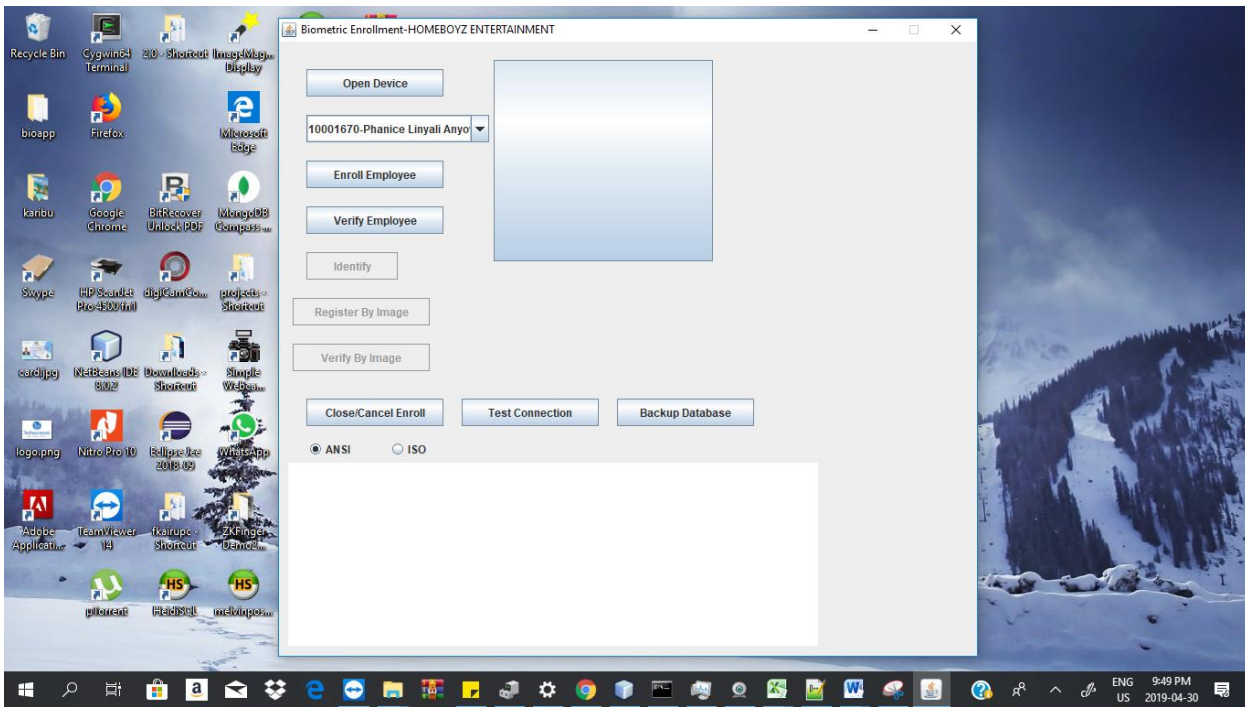**SUMMARISED OPERATING MANUAL-BIOAPP**

1.Requirements

-USB fingerprint device(zkteco 4500)

-zkteco 4500 driver software

-Apache Software (for local installation)

-Webcam with path of images configured to *bioapp/images* folder
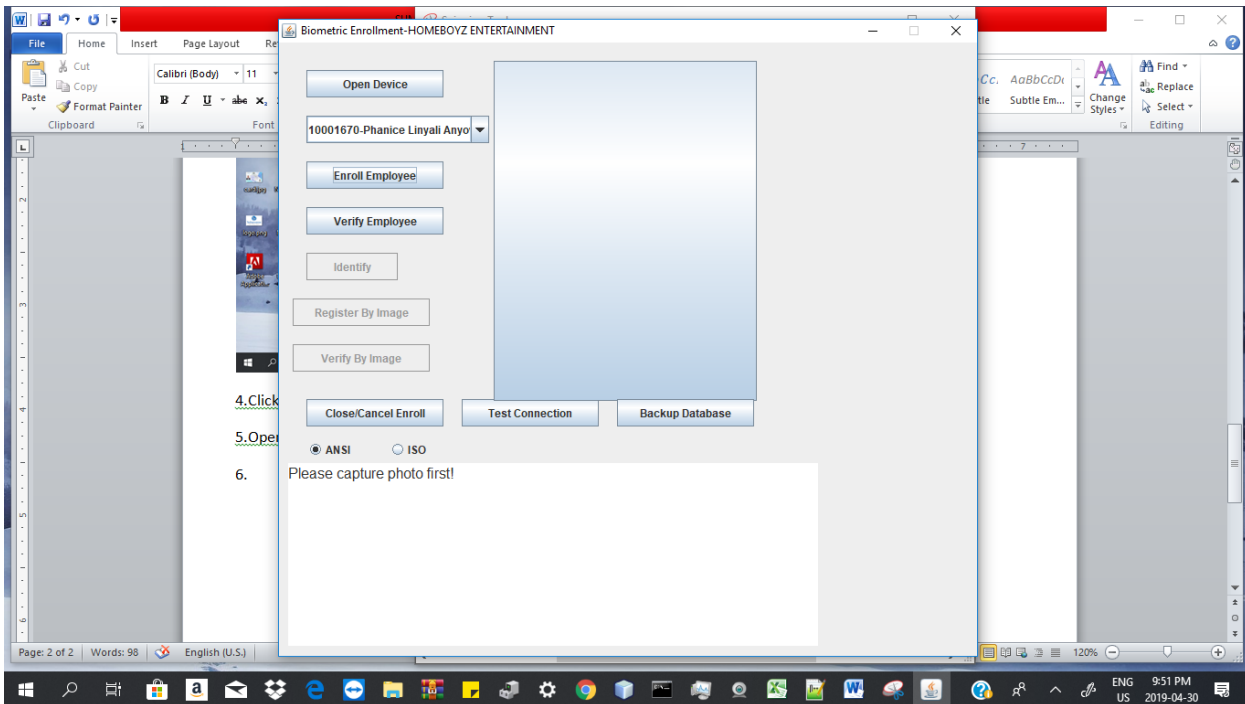
2.Procedure for running bioapp

-Ensure JAVA SDK is installed in your computer to allow java applications to run

-Ensure connection by double clicking on bioapp software to fire it up

3.Click on "open device" to connect to USB fingerprint reader

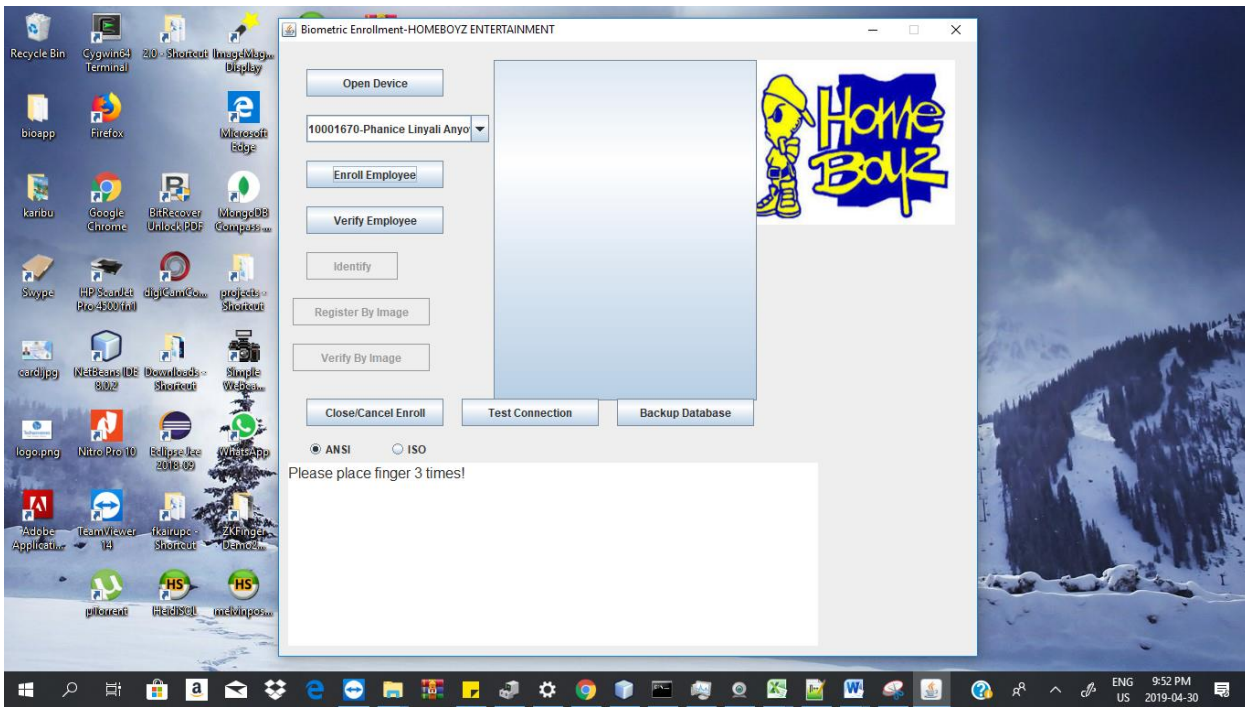4.Select an employee from the dropdown list to start capturing

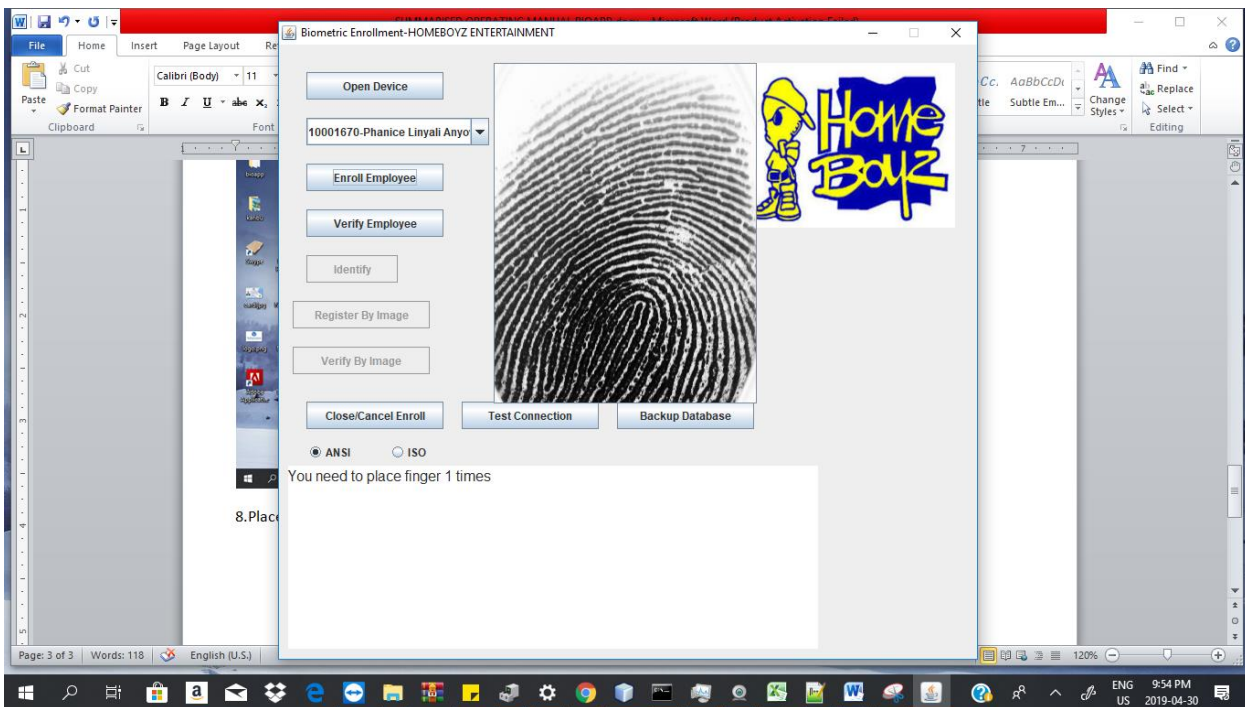5.Click on "Enroll" to start capturing fingerprints.The system will prompt you to capture photos first
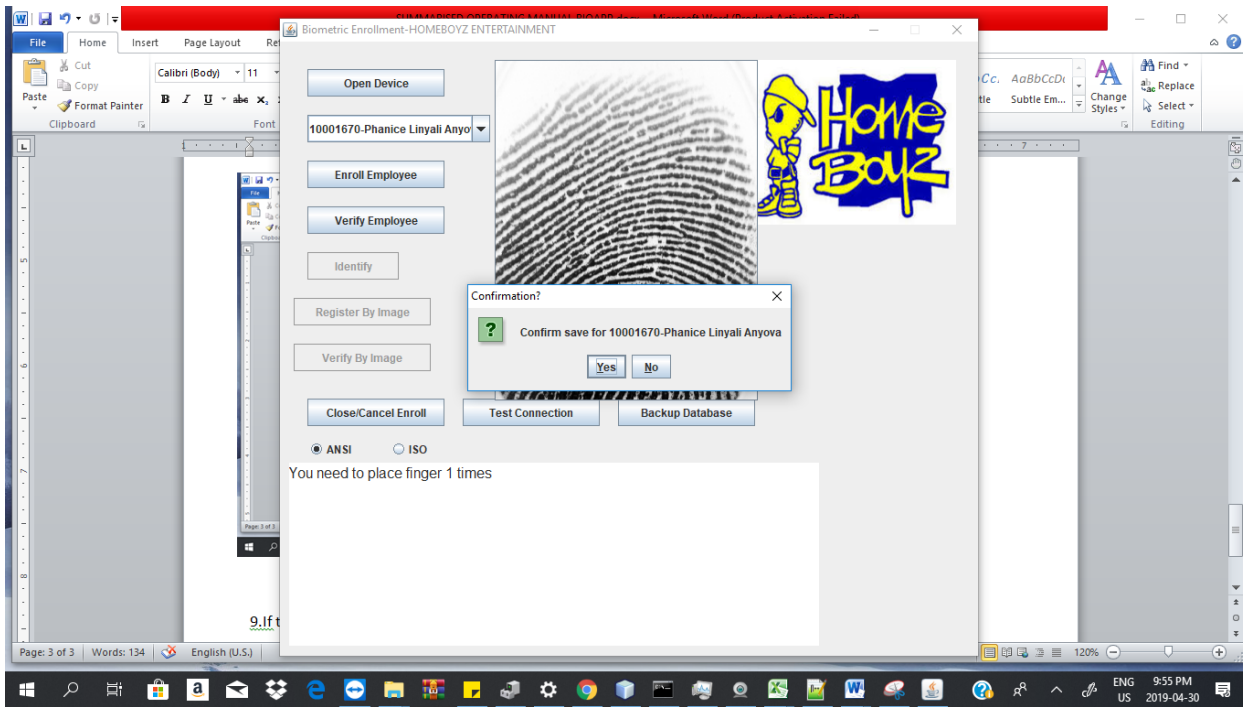

6.Open camera software and capture photo

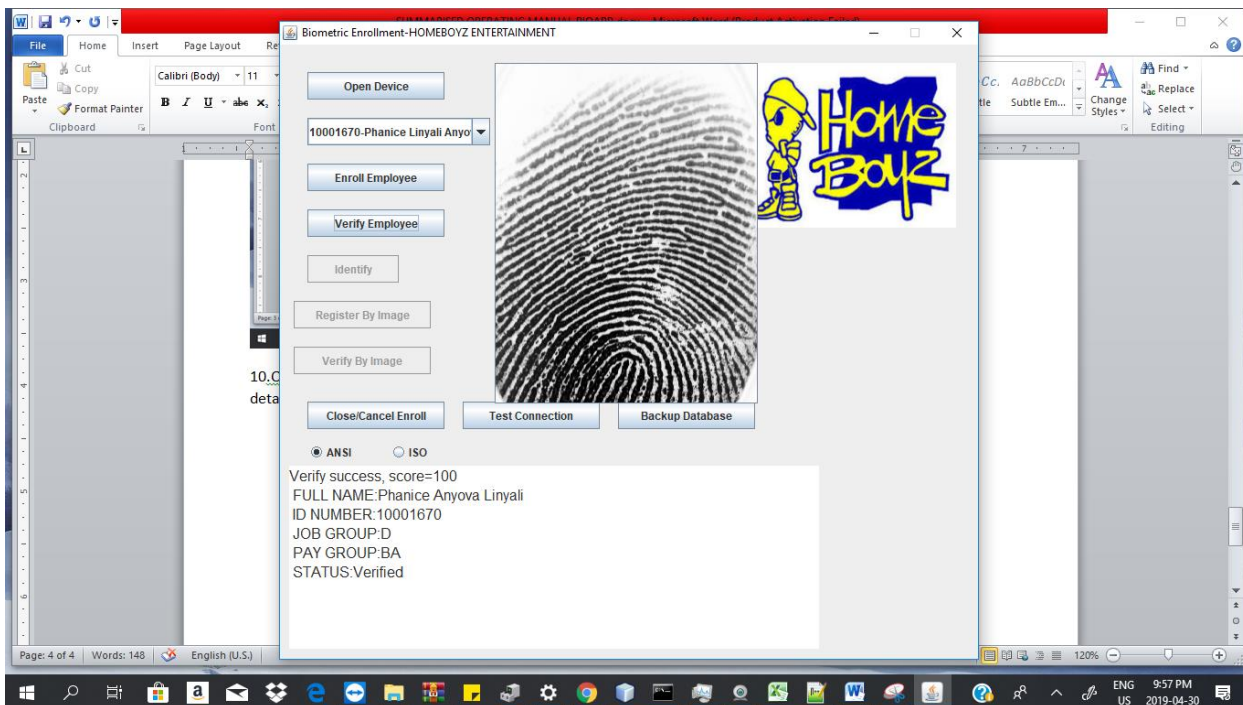7.Once photo is taken,it will be automatically displayed on bioapp software

8. Place thumb 3 times to get the clearest of thumbprints

9.If the three prints match,the system will prompt you to save the record,click on OK

10.Once saved,select employee and click on "Verify Employee",put registered fingerprint to verify employee details.

11.Backup database periodically using the "Backup Database" button to safeguard your information