

CHAPTER 1

INTRODUCTION

1.1. Background

In this modern era where technology development is really fast we used many applications to make daily work easier, not infrequently the application asks for personal data and it's really risky when app security not good enough to stop people who want hack or get personal data from that application. That's why application and account security need to be improved where previously only used user id, password, and pin now needs to be improved with add face recognition to application and account security.

But sometimes, face recognition system find it hard to recognize faces. This is quite troublesome when we want to make personal data changes. Several internet sites says that's because the system not good enough, other sites says that because the dataset not good enough resolution, and the last one because the camera resolution not good enough.

In this research, i tried all suggested problem from several sites to find out what's the biggest problem that makes face recognition system hard to recognize face.

1.2. Problem Formulation

1. What makes the face recognition system hard to recognize?
2. How does the brightness affect the face recognition system?
3. How does the resolution affect the face recognition system?

1.3. Scope

This project initiated with building face recognizer program. This program running with various kind of datasets. With these datasets, the program attempt to recognize faces using live camera. The accuracy of the program is used for objective comparison.

1.4. Objective

This research aims to compare the accuracy between high and low resolution datasets. Also this research can help future developers choose face recognition method.