In the 21st century, Android has become the most popular operating systems in a wide variety of smart-devices. Android Apps are playing an essential role in managing and organizing our daily lives easier. On one hand, we can use the App for entertainment in our leisure time; on the other hand, we can make use of this technology to protect our properties and possessions. In order to achieve this, we have designed an App Mr. Security which can provide a home safety system for people who are away from home.

**Aims and Objectives**

- To develop a system which can capture a photo when there is a movement in a surrounding area during a period of time.
- To alert the users in two ways:
  1. Send an alert email with captured photo.
  2. Send a notification through SMS.
- To remote the guest camera device that run Android OS in the same Wifi network.

**Methodology**

**Layout**
The user has to enter the following information:
- User’s Gmail account
- Username & password
- Target email address
- Email subject
- Email body
- User’s phone number

**Motion Detection**
- It is checked under the algorithm.
- To detect motion, we compare the differences in pixel data.
- When the overall pixels’ data have a difference more than a certain level, image will be considered as a different image and will be captured.

**Remote Device Control**
- Two mobile devices can be connected under the same Wifi network.
- Both mobiles should input the same IP address from each device.
- The host device can control the camera device to start or end running the camera detection.

**Email Setting**
- User is required to register a Gmail account first.
- Activity of email sending will be done by the system under the screen automatically.

**System Block Diagram**

**Results**

First page to request user’s information.

User will receive email notification from the device with attachment of photos and video.

Object movement detected.