

Home Security System Demo 1

Harmit Badyal

Kaavya Krishna-Kumar

Miraj Patel

Andrew Russomagno

Kaushal Parikh

Abhishek Kondila

Nikunj Jhaveri

Sagar Shah

Nirav Patel

Ashwin Suresh

About our Project

“With our product, we aspire to make a homeowner feel as safe in their home and to have them feel confident in their ability to protect their own home.”

This inspired us to make a Home Security System using Facial Recognition. Our security system implements facial recognition to enhance common security systems to give homeowners better home security.

Our product includes two main units:

1. User Friendly Mobile App
2. Arduino Base Unit



Why Facial Recognition?

Facial Recognition allows another layer of security for the user:

- Users can have flexibility to choose who they want to allow access to their home or not.
- User can have the reliability to know whenever a non-registered member is entering the house.
- User can store as many members as they want in their system and remove users as they wish depending on their lifestyle
- Automates the process of securely unlocking a home entrance



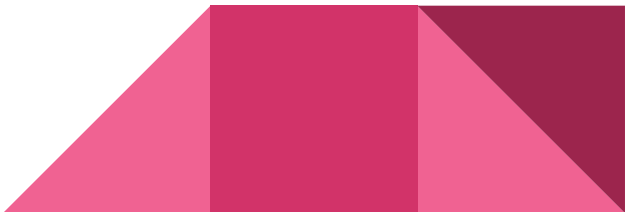
Project Features

Mobile App

- Allows for user to directly control home security system features:
 - Toggle between home and away mode
 - Turn off alarm
 - Toggle Lights on and off
 - Manually take pictures
- Easy access to add and remove users to facial recognition database
- Multiple user accounts can be made and user privileges can be edited

Arduino Base

Arduino Base includes:

- Motion sensor to detect movement outside of the house
 - Camera to take picture of person outside house
 - Accelerometer to detect opening and closing of the door
 - Alarm to sound if intruder walks inn
 - Lights
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Product Roadmap

