1211705158 SUTRISNA
12117051     SRI ANGGARA DINUR
12117051     SALAHUDIN AL-AYUBI
12117051     RIZKI IBNU BAIHAQI
1211705153 SOFWAT ABDULLAH FIKRI
1211705     HEVRIL

# HAND GESTURE RECOGNITION BASED ON COLLABORATIVE AUGMENTED REALITY ENVIRONMENT FOR HUMAN-COMPUTER INTERACTION

# THE GESTURE RECOGNITION SYSTEM

- **HAND SEGMENTATION**
- **FEATURE EXTRACTION**
  - **Template based tracking (Template Matching)**
  - **Optimal estimation technique (Model 3D)**
  - **Tracking based on mean shift algorithm (Skin Color)**
- **GESTURE RECOGNITION**
  - **Implementation of hand segmentation**
  - **Preparation**: bringing hand to starting posture of gesture
  - **Nucleus:** includes main gesture
  - **Retraction**: this includes bringing hand to resting position
- **HAND MODELLING**

# CLASSIFICATION OF VISION BASED GESTURE RECOGNITION METHODS

- HAND MODELLING WITH HIGH LEVEL FEATURES (Kualitas Gambar)

- VIEW BASED APPROACH (Pendekatan Berbasis Pandangan)

- LOW LEVEL FEATURES (Kualitas Gambar Rendah)

- GESTURE SEGMENTATION METHOD BASED ON COMPLEXION MODEL (Skin Color)

# PROPOSED  SYSTEM

- **CAPTURE VIDEO**

- **EXTRACT IMAGES FROM VIDEO**

- **IMAGE ENHANCEMENT AND REMOVE NOISE**

# BACKGROUND  SUPPRESSES

- **REGISTER USER**
- **LOGIN**
- **HAND RECOGNITION**

# THANKS FOR ATTENTION