Group: Ahmed Amin (ID: FA19-BSSE-0063)

Muhammad Fahad (ID: FA19-BSSE-0014)

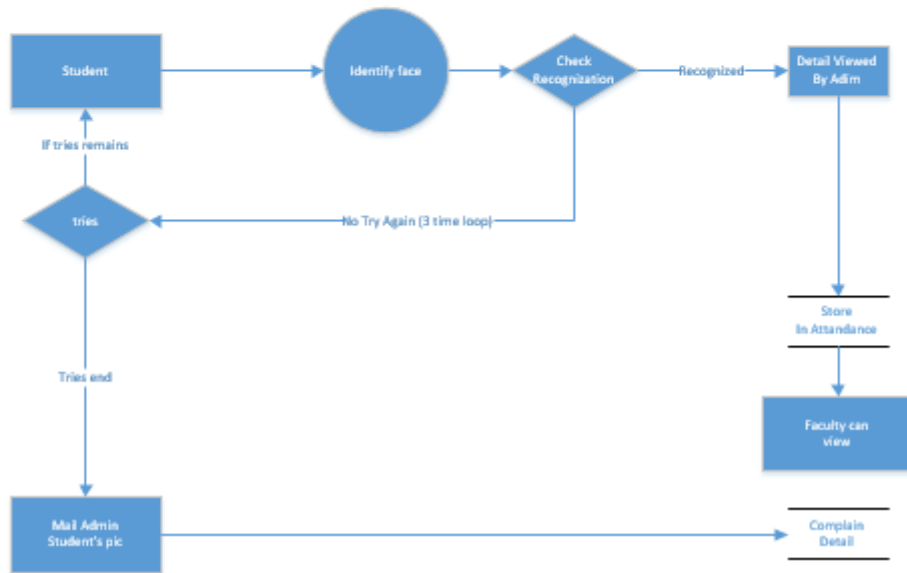**Course: Software Engineering Lab**

Lab: Project Diagrams
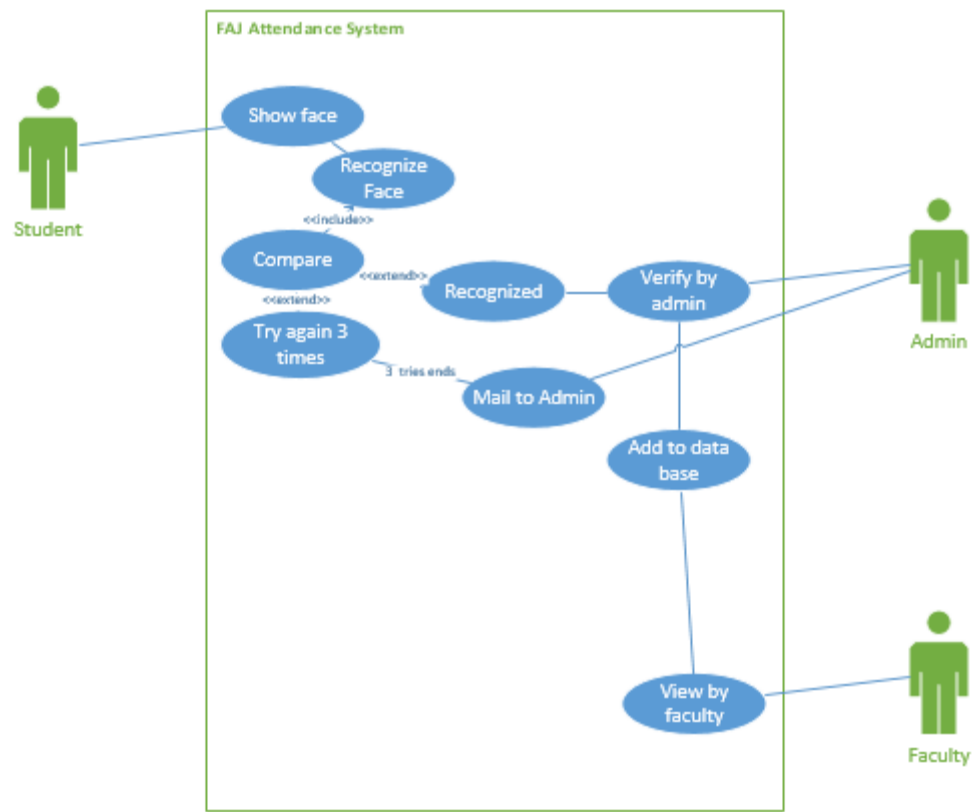
Section: AM

Abdul Basit

Data Flow Diagram

```
┌──────────┐           ╭─────────────────╮           ┌──────────┐
│ Student  │ ────────▶ │ Face Recognition│ ────────▶ │ FAJ System│
│          │           │ Attendance System│          │          │
└──────────┘           ╰─────────────────╯           └──────────┘
```

```
┌──────────┐        ╭──────────╮       ◇ Check ◇                ┌────────────┐
│ Student  │ ─────▶ │ Identify │ ────▶ ◇Recognization◇ ─Recognized─▶ │Detail Viewed│
│          │        │   face   │       ◇          ◇                │  By Adim   │
└──────────┘        ╰──────────╯                                   └────────────┘
     ▲                                                                  │
     │ If tries remains                                                 │
     │                                                                  ▼
   ◇ tries ◇  ◀─── No Try Again (3 time loop) ───                  ═══════════
                                                                   Store
     │                                                             In Attandance
     │ Tries end                                                   ═══════════
     ▼                                                                  │
┌──────────┐                                                            ▼
│Mail Admin│                                                      ┌────────────┐
│Student's │ ──────────────────────────────────────────▶         │ Faculty can│
│   pic    │                                              Complain│    view    │
└──────────┘                                              Detail  └────────────┘
                                                          ═══════════
```

Use Case Diagram

Activity Diagram

FAJ Attandance System

Student	Admin	Faculty

Show Face

5 sec

No more Tries remain

If no Repeat Three times

Recognizing

Mail to Admin

yes

Verified by Admin

Store to data base

View by Faculty

Phase