RESERVATION SYSTEM ACCESS FLOWCHART

START

Launch Application

Log-in User

User type?

Admin

User

Select Process

Select Process

Equipment Inventory Process

Equipment Reservation Process

Equipment Reservation Process

Room Reservation Process

EIP

ERP

Room Reservation Process

RRP

```
EIP ──────────────────────────────────►  Equipment
                                          Inventory Process
                                          START
                                               │
                                               ▼
Enter Equipment                            ◄ Action ►──── Update Equipment ────►  Update Equipment
Information:        ◄── Add Equipment ──
- Equipment Code                               │
- Stock                              Remove Equipment
- Description                                  │                                        │
     │                                         ▼                                        ▼
     │                                   Select Equipment                         Select Equipment
     ▼                                         │                                        │
Add to Database                                ▼                                        ▼
     │      ◄── No                       Confirm                               Change Equipment
     │                                   Removal?                              Information
     ▼                                         │                                        │
Add Succesful?                               Yes                                        │
                                               │                                        ▼
                          No                   ▼                                   Confirm
                           │             Update ◄──── Yes ──── Changes?
                           │             Database
                           │                │  ◄── No
                           │                ▼
                           │             Update
                           │             Succesful?
   ── Yes ──────────────────────────────────►  │
                                              Yes
                                               ▼
                                         Another Action? ──── No ────►  (loop back)
                                               │
                                              No
                                               ▼
                                          Equipment
                                          Inventory Process
                                          END
```

```
RRP ──────────────────────────→ ( Reservation Process START )
                                            │
                                            ▼
                                  [ Student Fill-up Reservation Form ]
                                            │
                                            ▼
                                  [ Select Use Date & Time ]
                                            │
                                            ▼
                        ┌────────→ [ Select Room ]
                        │                   │
                       No                   ▼
                        └──────────< Room Available? >
                                            │
                                            ▼
                                  [ Encode Reservation Information ]
                                            │
                                            ▼
                                  [ Send Reservation Information to OSA ]
                                            │
                                            ▼
                                  [ Reservation Validation ]
                                            │
                                            ▼
                              < Validated? >──Yes──→ [ Send Validation to PPO ]──→ [ Confirm Reservation ]──→ < Confirmed? >
                                   │                                                                                │
                                  No                                                                              Yes
                                   ▼                                                                                ▼
                          [ Reservation Cancelled ]←──────────No──────────────< Data saved? >          [ Encode Reservation Data ]
                                   │                                              │      │                         │
                                   ▼                                            Yes     No                         ▼
                          ( Reservation Process END )                           │      │       [ Save Reservation Data to Database ]
                                   │                                            │      │
  LMC                             No                                            │      └──────────┐
   ▲                               ▼                                            ▼                 ▼
   │                      < Last Minute Changes? >←──[ Reservation Succesful ]
   └────────Yes───────────┘
```

```
ERP ──────────────────────────────────────────────▶ Equipment
                                                     Reservation Process
                                                     START
                                                          │
                                                          ▼
Choose Equipment ◀──── Borrow ──── Action ──── Return ────▶ Check for Damage
       │                                                          │
       ▼                                                          ▼
Equipment                              Charge to student ◀─ Yes ─ Has Damage?
Available?                             account                    │
       │                                    │                     No
      Yes                                   │                     ▼
       ▼                                    │          No ───▶ Update
Fill-up Equipment                           │          │        Database
Reservation Form                            │          │            │
       │                                    │          │            ▼
       ▼                                    │          └──── Database
Confirm Information ◀─── Change incorrect   │                updated?
       │                 information        │                     │
       ▼                      ▲             │                    Yes
Information ───────────────────┘            │                     ▼
Correct?                                    │                Return Succesful!
       │                                    │                     │
       ▼                                    │                     │
Encode Information                          │                     │
       │                                    │                     │
       ▼                                    │                     │
No ──▶ Update                               │                     │
│      Database                             │                     │
│         │                                 │                     │
│         ▼                                 ▼                     │
└──── Database ──▶ Equipment ──▶ Equipment Reservation Process ◀──┘
      Updated?      Reservation    END
                    Succesful!
```