# 1. Login/Register Flow Diagram

```
                                          ┌──────────────────┐
                                          │    Open Game     │
                                          └──────────────────┘
                                                   │
                                                   ▼
  ┌──────────────┐                        ┌──────────────────┐
  │ on any error │───────────────────────▶│ Show Loading     │◀──────────┐
  └──────────────┘                        │ Screen           │           │
                                          └──────────────────┘           │
                                                   │                      │
                                                   ▼                      │
                                          ┌──────────────────┐           │
                                          │ Read JWT from    │           │
                                          │ Device           │           │
                                          └──────────────────┘           │
                                                   │                      │
                                                   ▼                      │
                                              ◇ Is JWT null? ◇            │
                                   No  ◀────────                          │
                                   │                  │ Yes              │
                                   ▼                  ▼                   │
                          ◇ JWT Duration      ┌──────────────────┐      │
                No ◀──── Expires in 250 hours?◇│ Show Login       │──────┐│
                │                  │           │ Screen           │      ││
                │                 Yes          └──────────────────┘      ││
                ▼                  ▼                  │                   ││
```

**Nodes and connections:**

- **Open Game** → **Show Loading Screen**
- **on any error** → **Show Loading Screen**
- **Show Loading Screen** → **Read JWT from Device**
- **Read JWT from Device** → **Is JWT null?**
- **Is JWT null?** — No → **JWT Duration Expires in 250 hours?**
- **Is JWT null?** — Yes → **Show Login Screen**
- **JWT Duration Expires in 250 hours?** — No → **Get user Information with JWT**
- **JWT Duration Expires in 250 hours?** — Yes → **Refresh Token**
- **Get user Information with JWT** → **Create User Object** → **Notify UserLoad**
- **Refresh Token** → **Save JWT to Device**
- **Show Login Screen** → **OnClick Facebook Login**
- **Show Login Screen** → **OnClick Guest Login**
- **OnClick Facebook Login** → **Get User Information from Facebook** → **Create new User Request with FacebookId (or get JWT if already registered)** → **Save JWT to Device**
- **OnClick Guest Login** → **Create new User Request with GuestId(userId)** → **Save JWT to Device**
- **Save JWT to Device** → **Show Loading Screen**