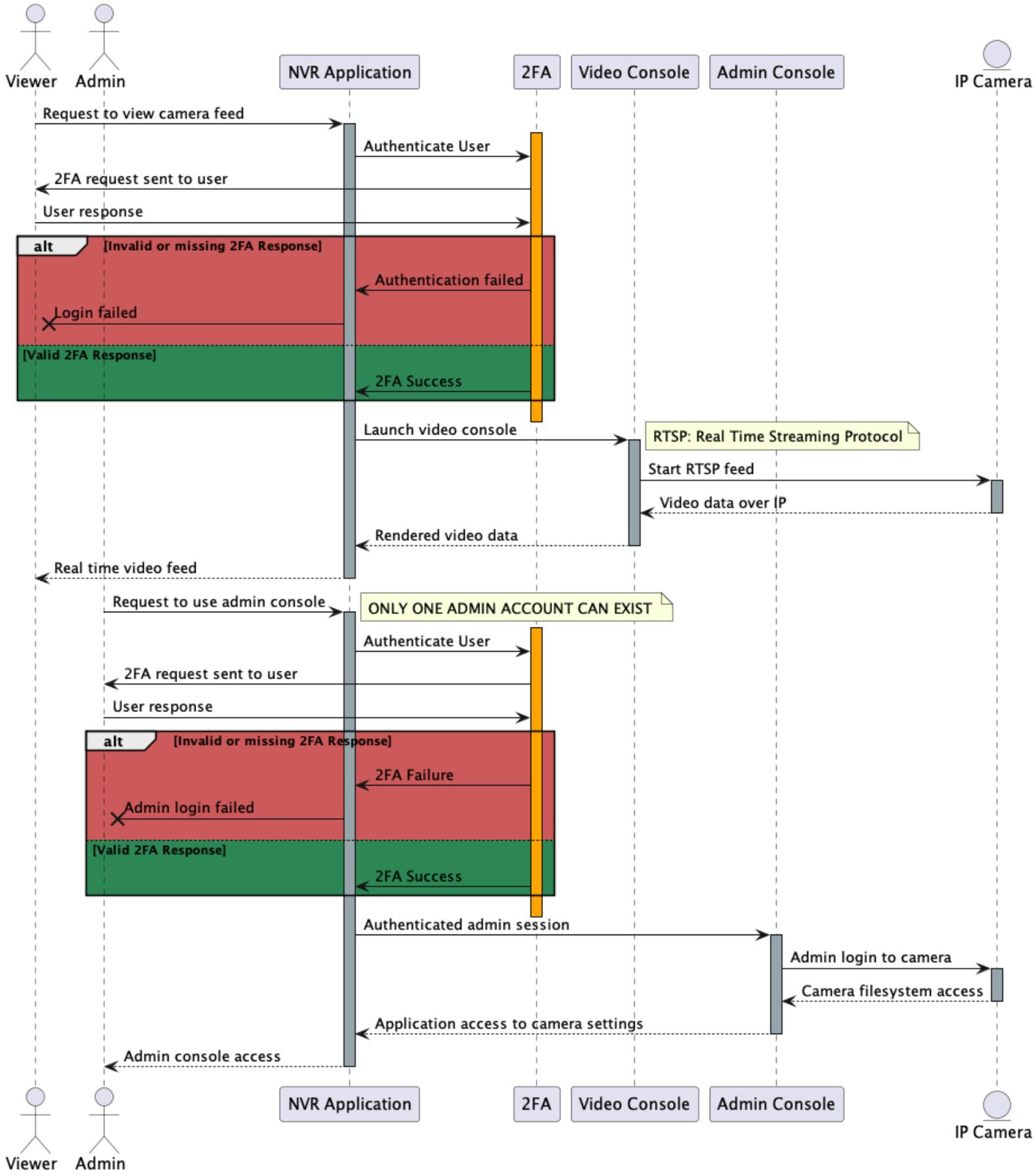


Accessing IP Cameras with Nework Video Recording Application | Justin DeKock via PlantUML



```

' PLANTUML SOURCE CODE
@startuml nvr
title Accessing IP Cameras with Network Video Recording Application | Justin DeKock via PlantUML

!pragma teoz true
!pragma sequenceMessageSpan true

actor Viewer as vu
actor Admin as au
participant "NVR Application" as app
participant "2FA" as auth
participant "Video Console" as vc
participant "Admin Console" as adc
entity "IP Camera" as ipc

' view camera feed
vu -> app ++ █#98a9ad : Request to view camera feed
    activate auth #0orange
        app -> auth █#98a9ad : Authenticate User
        auth -> vu █#eee274 : 2FA request sent to user
        vu -> auth : User response
        alt #IndianRed Invalid or missing 2FA Response
            auth -> app : Authentication failed
            app -x vu : Login failed
        else #SeaGreen Valid 2FA Response
            auth -> app : 2FA Success
        end
    deactivate auth

app -> vc ++ █#98a9ad : Launch video console
    note right
        RTSP: Real Time Streaming Protocol
    end note
    vc -> ipc ++ █#98a9ad : Start RTSP feed
    return Video data over IP
    return Rendered video data
return Real time video feed

' access admin console
au -> app ++ █#98a9ad : Request to use admin console
    note right
        ONLY ONE ADMIN ACCOUNT CAN EXIST
    end note

    activate auth #0orange
        app -> auth █#98a9ad : Authenticate User
        auth -> au █#eee274 : 2FA request sent to user
        au -> auth █#eee274 : User response
        alt #IndianRed Invalid or missing 2FA Response
            auth -> app : 2FA Failure
            app -x au : Admin login failed
        else #SeaGreen Valid 2FA Response
            auth -> app : 2FA Success
        end
    deactivate auth

    app -> adc ++ █#98a9ad : Authenticated admin session
    adc -> ipc ++ █#98a9ad : Admin login to camera
    return Camera filesystem access
    return Application access to camera settings
return Admin console access

@enduml

```