

# Qlarant Internship

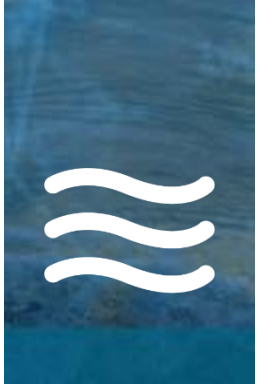
- Ethan White  
August 4, 2022





# AGENDA

1. Qlarant Background
2. First days at Qlarant
3. Horus/RIViR
4. Deeper into the ATO process
5. Design
6. Implementation
7. RIViR Modeler
8. Thanks



## Background Information

- The mission of Qlarant is to improve the health of individuals and communities.
- The Qlarant team has more than 500 employees working in 40 states.
- Qlarant products focus on discovering risks, driving quality improvement, and delivering customized solutions to solve your complex, real-world problems.

# First days at Qlarant

- Orientation
- Joined the RIViR Project
- Learned the following:
  - Machine Learning
  - NOSQL
    - Mongo DataBase
    - RIViR = multi-database
  - Docker
  - Keycloak
  - Pgadmin
  - Robo 3t





# Horus/RiViR

- What is Horus and ATO
  - ATO = Authorization To Operate
  - Horus = A company who specializes in this
- Why is this process painful?
  - Security assessments need to take place (i.e Tax returns, Social Services, Any System)
  - Takes 1000 hours to ATO a government system
- How?
  - Collaborated between across multiple groups and problem domains
- Who?
  - Working with Techne Corporation and Craige Philip
- Solution
  - RiViR automates the ATO process
  - Streamlined into an easy to follow steps

- NIST/RMF Controls
  - RIViR analyze these controls to pass or fail them
  - Looks at which control to implement
  - RIViR is able to streamline this process through Indicators
- Modeled an ATO workflow process

Num.	Title	Impact	Priority	Subject
AC-1	ACCESS CONTROL POLICY AND PROCEDURES	LOW	P1	Access Control
AC-2	ACCOUNT MANAGEMENT	LOW	P1	Access Control
AC-3	ACCESS ENFORCEMENT	LOW	P1	Access Control
AC-4	INFORMATION FLOW ENFORCEMENT	MODERATE	P1	Access Control
AC-5	SEPARATION OF DUTIES	MODERATE	P1	Access Control
AC-6	LEAST PRIVILEGE	MODERATE	P1	Access Control
AC-7	UNSUCCESSFUL LOGON ATTEMPTS	LOW	P2	Access Control
AC-8	SYSTEM USE NOTIFICATION	LOW	P1	Access Control
AC-9	PREVIOUS LOGON (ACCESS) NOTIFICATION		P0	Access Control
AC-10	CONCURRENT SESSION CONTROL	HIGH	P3	Access Control
AC-11	SESSION LOCK	MODERATE	P3	Access Control
AC-12	SESSION TERMINATION	MODERATE	P2	Access Control
AC-13	SUPERVISION AND REVIEW <span>◆</span> ACCESS CONTROL			Access Control
AC-14	PERMITTED ACTIONS WITHOUT IDENTIFICATION OR AUTHENTICATION	LOW	P3	Access Control
AC-15	AUTOMATED MARKING			Access Control
AC-16	SECURITY ATTRIBUTES		P0	Access Control
AC-17	REMOTE ACCESS	LOW	P1	Access Control
AC-18	WIRELESS ACCESS	LOW	P1	Access Control

## AC-10

# CONCURRENT SESSION CONTROL

## Overview

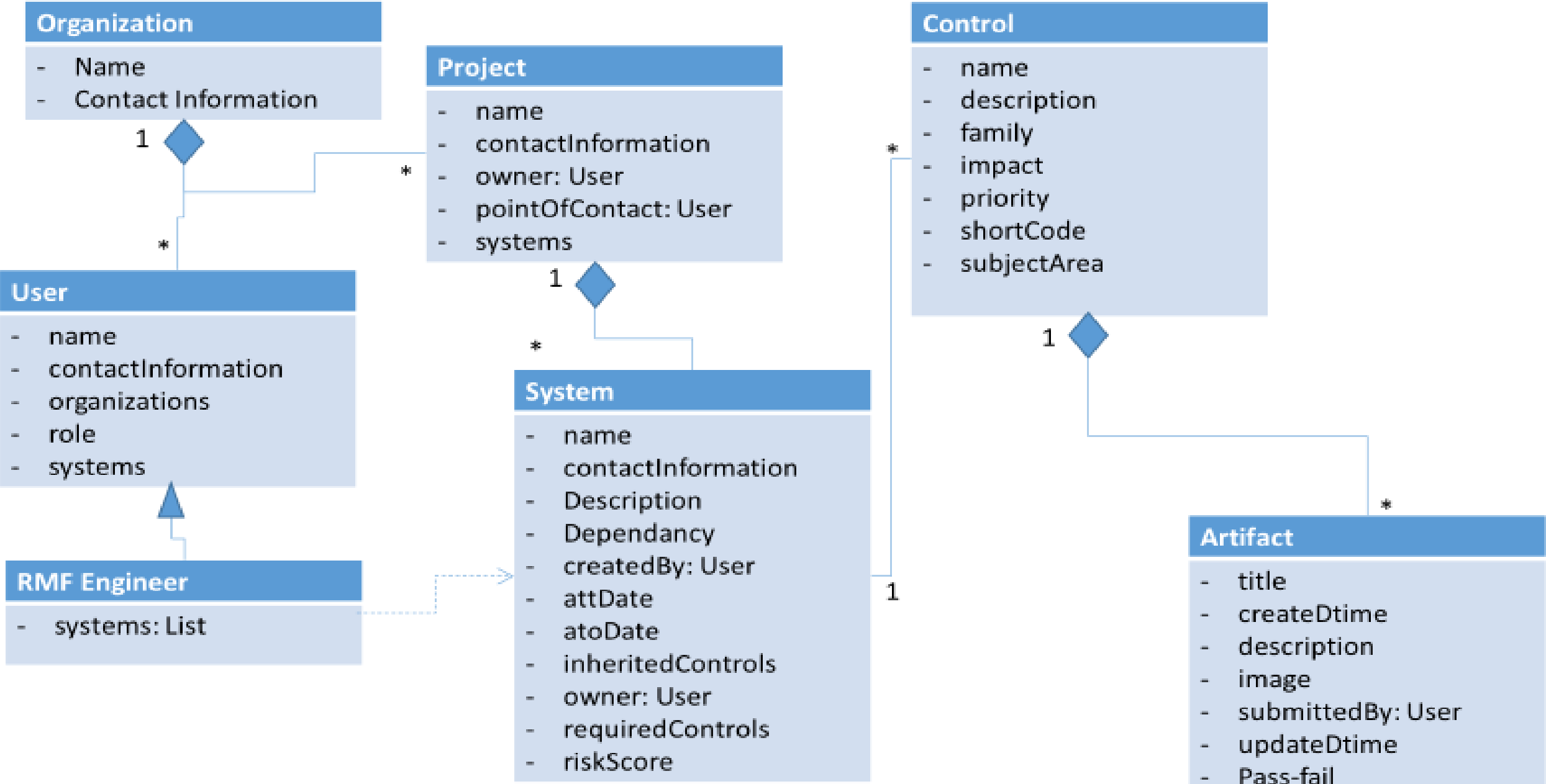
Number	Title	Impact	Priority	Subject Area
AC-10	Concurrent Session Control	HIGH	P3	Access Control

## Instructions

The information system limits the number of concurrent sessions for each

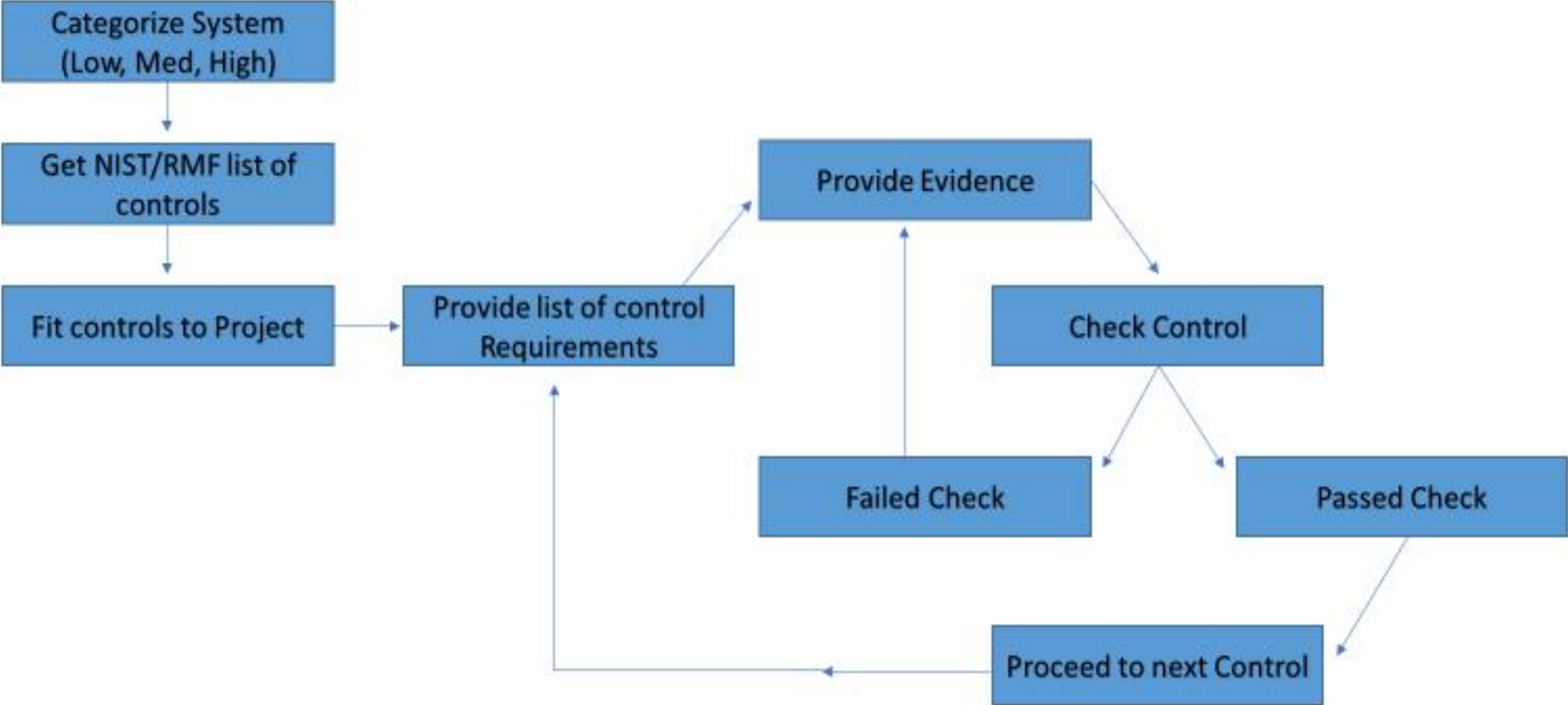
**Assignment: organization-defined account and/or account type** to **Assignment: organization-defined number**.

# Design - Data

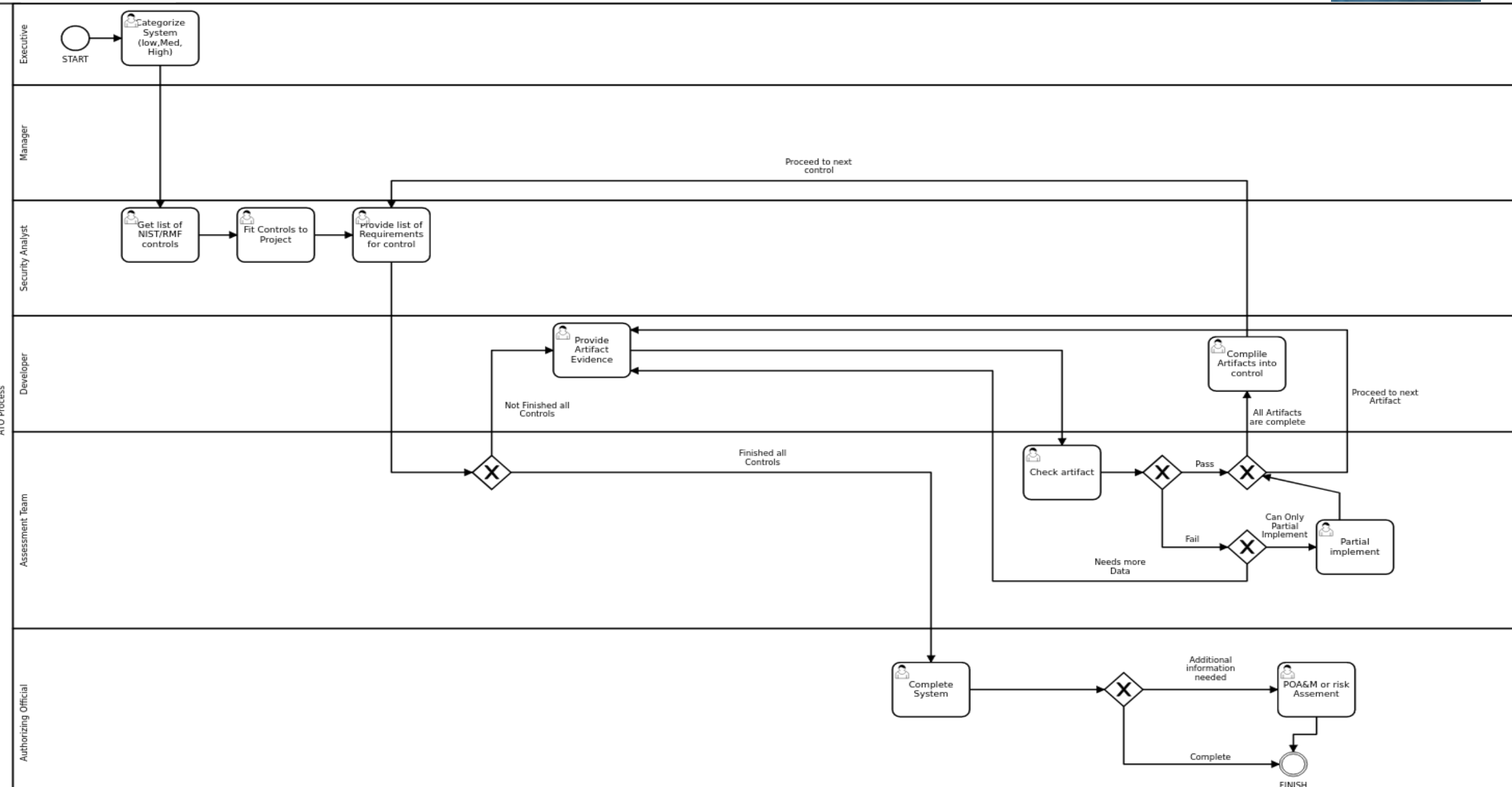


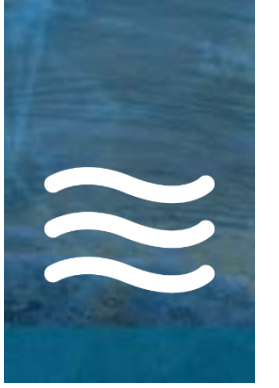


# Design – Business Process



# Implementation - RIViR Modeler





# Thank you

- Qlarant is a great place to work
- Some challenges
  - Technical difficulties with laptops
  - Prototype VM environment
- Growth
  - Complete understanding of the ATO process
  - Communications skills
- Great interactions I had during my time working at Qlarant
  - Intern meetings with Cyber Security team



Thanks