

Qlarant Internship

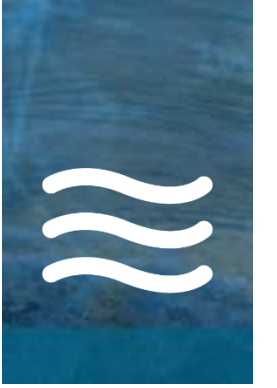
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AGENDA

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

Deeper into the ATO process

- 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 ◆ 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

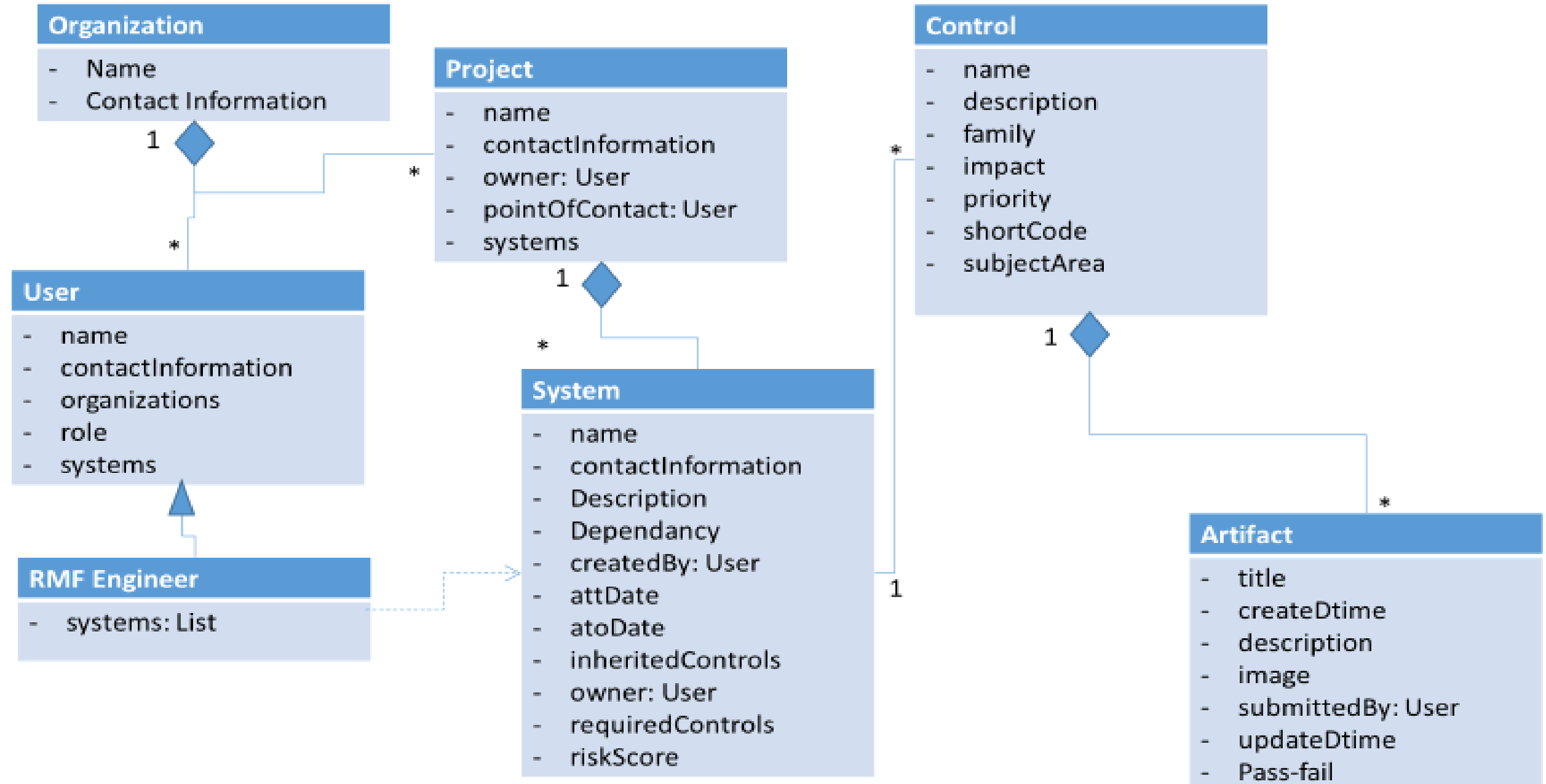
Number	Title	Impact	Priority	Subject Area
AC-10	Concurrent Session Control	HIGH	P3	Access Control

Instructions

The information system limits the number of concurrent sessions for each

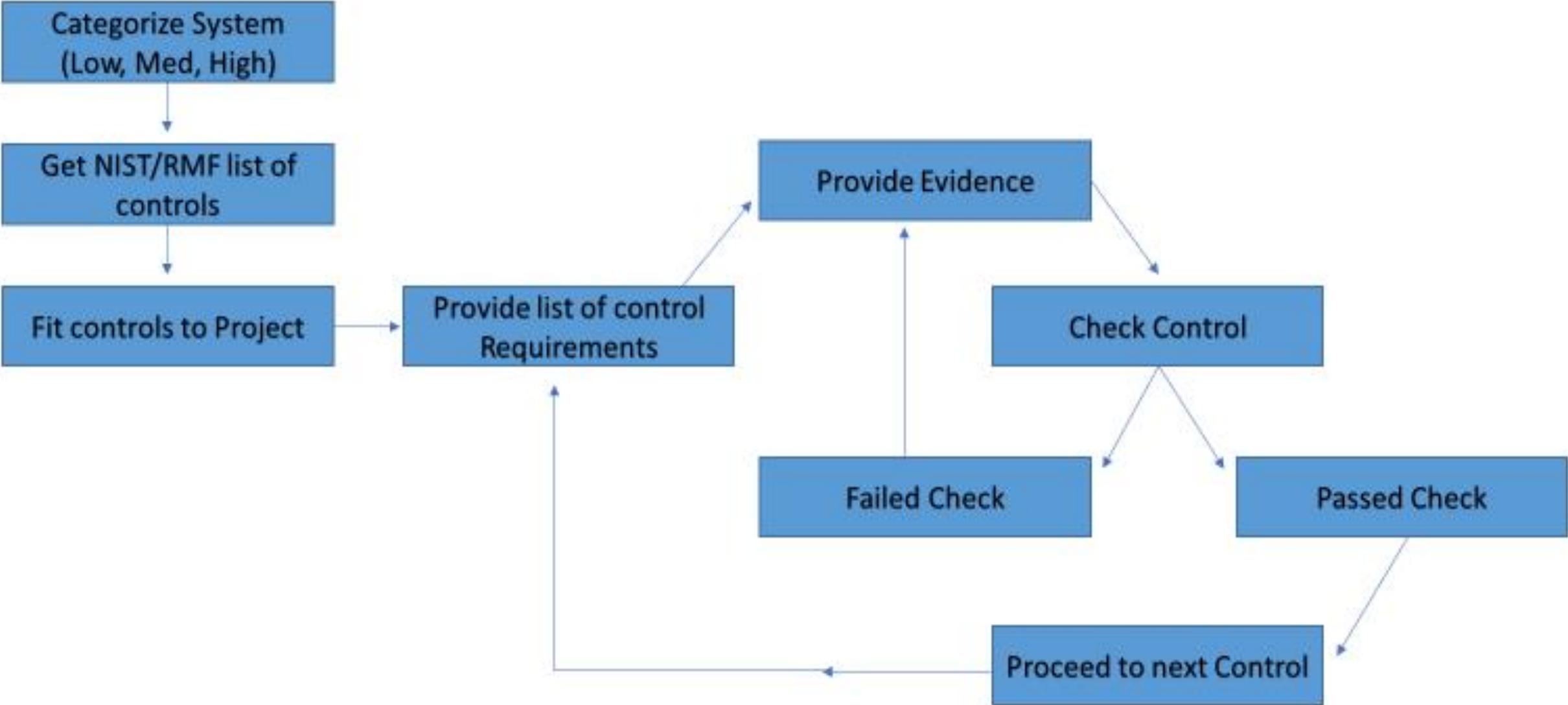
Assignment: organization-defined account and/or account type to **Assignment: organization-defined number**.

Design - Data

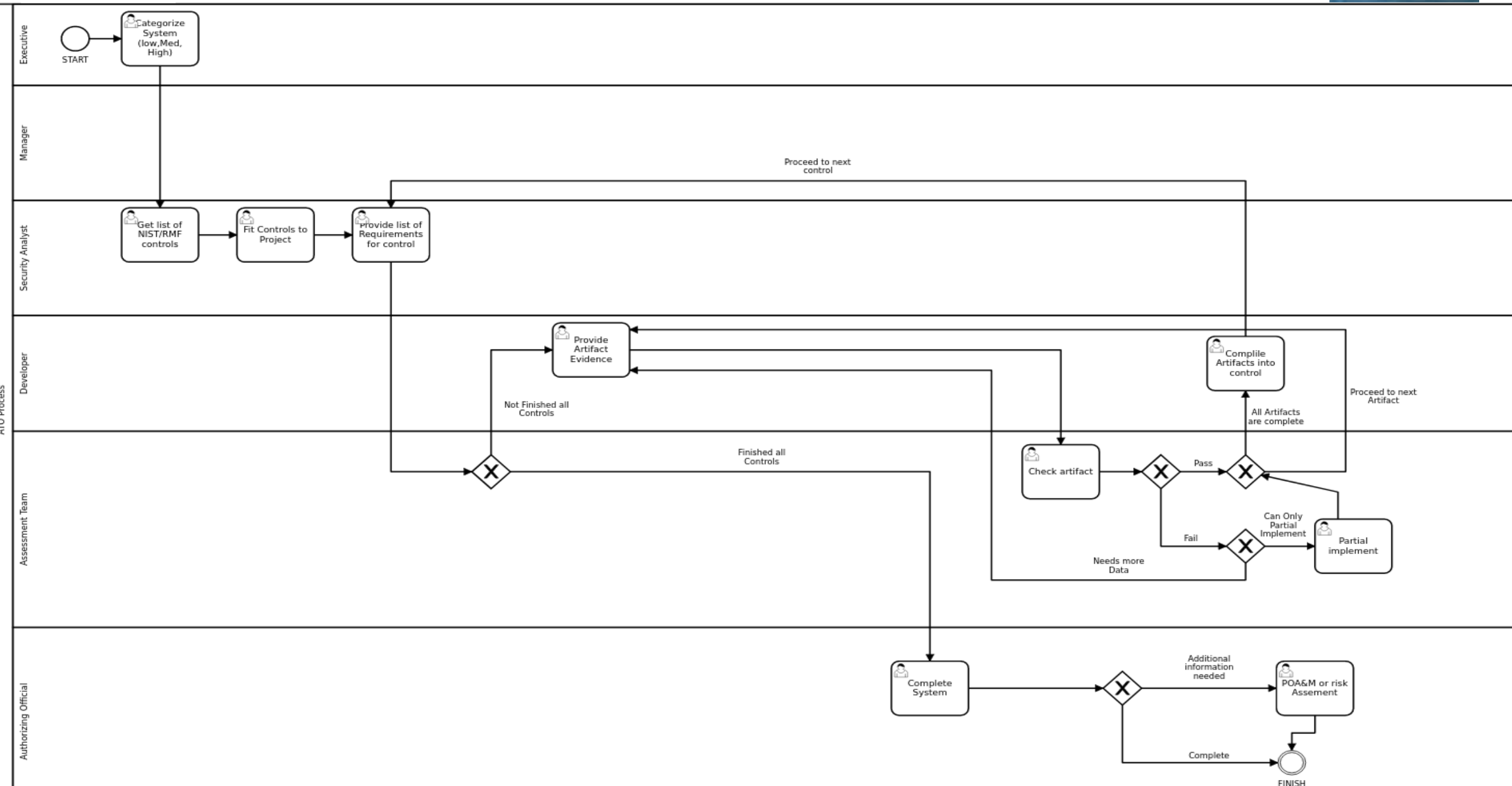




Design – Business Process



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