CMU Project Report (Team6)

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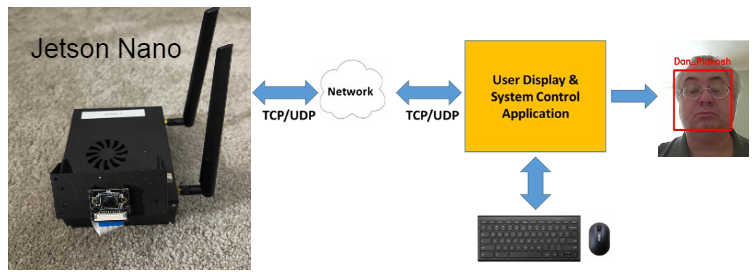
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# 0. Introduction

TODO: Introduce team member and role and project



# 1. Schedule

TODO: attach schedule sheet

# 2. System Requirement

Mandatory requirements described in the "LG May 2021 Lecture Secure Coding Project Intro V1.1.pptx.pdf" document.

- no vulnerability in the system

- secure architecture

- implement 5 modes (run, test run, learning, secure, non-secure)

- Jetson Nano sends the Camera Image and Face Recognized information. It should be separated.

- Client receives the data above, and displays it after combining it

# 3. Security Goals

Protecting the user privacy information in our system.

# 4. Security Requirements

-- iter 1

[ ] Any information related (personal) privacy SHALL be protected securely. (Friend video/Learned PHOTO)

[ ] Any information related (personal) privacy SHALL be accessible to only authorized entities. (Learned PHOTO)

[\*] The system SHALL use only approved algorithms for cryptographic operation.

[\*] Server and client SHALL communicate over encrypted and authenticated channel.

-- iter 2

[\*] Any information related (personal) privacy SHALL be protected securely. (ID/PASS/Friend video/Learned PHOTO)

[\*] Any information related (personal) privacy SHALL be accessible to only authorized entities. (ID/PASS/Learned PHOTO)

[\*] The system SHALL have a resiliency against key compromise. (TLS Key, Cert)

# 5. Assets

-- iter 1

[ ] Images for transmission over camera cable

[\*] Images for transmission over network

[\*] The Friend video

[\*] Client program itself

[\*] Client program hash code on server side

-- iter 2

[\*] User info. data (ID, type, password)

# 6. Threat Modeling

# 7. Security Risk Assessment

# 8. Mitigation

# 9. Architecture

# 10. Static Analysis

# 11. Fuzz & Penetration Test

# 12. Conclusion