

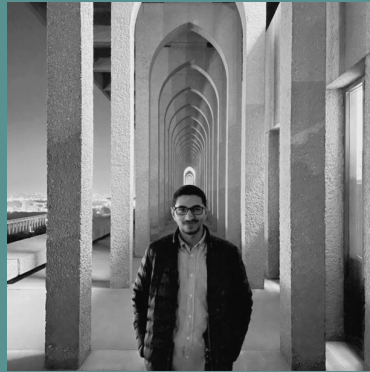
# Capstone Project Vlog #5

## NG911 System

*by Team Bugs*



Li Pan



Abdelrahman Rabaa



Renz Rivero

# Project Reintroduction

## NG911 System

- **A modernized 911**
- **Adding more ways to communicate with a dispatcher on top of what is offered by current technologies (Apple Watch SOS & Android 12)**
- **Will aim to utilize the next generation 911 (NG911) infrastructure to come in Saskatchewan around 2024**

**Feb.1 - Mar.8 2022**

Li: audio stream, map route, testing

Renz: front-end development — UI/UX, testing, general code clean up and documentation

Rabaa: implement app connection indicator, new locations

# Demo

# Status Description

Current status: **Green**

# Project issues

- The campus guest wifi connection not stable which affect our video stream

# Project changes

- Using NG911 system instead of SOS emergency system

# Encryption

- RSA
- End-End
- Start encrypting messages
- Key pairs generated per connection

# Optimization

- Code refactoring
- Using stable wire connection with a high speed of network



# User Testing

- Previous RCMP officer, John Leitch, had a physical device with the client side application
- Collective in-person meeting with the team, Mr. Leitch, and our mentor Dr. Morgan to test the system

## Next up

- Stabilize the quality of video/audio connections
- Stabilize the quality of locations shown on the PSAP
- Continue improving UI/UX

# Team Reflection

## Does the team feel "on track"? (reiterate the above colour status)

Yes, our system's main functionalities are accomplished.

## What progress does the team particularly feel good (great) about?

The project management / testing steps are going as planned.

## What barriers (if any) does the team feel are a current impediment to success?

N/A

## What help (if any) does the team require to move positively forward?

Another powerful laptop for testing, ethernet cable for the final project day.

## What question or concerns does the team have (if any)?

1. The wifi in the university may not be best for presenting.
2. P2P audio video architecture.
3. Weekly deliverable

**Thank You!**

