

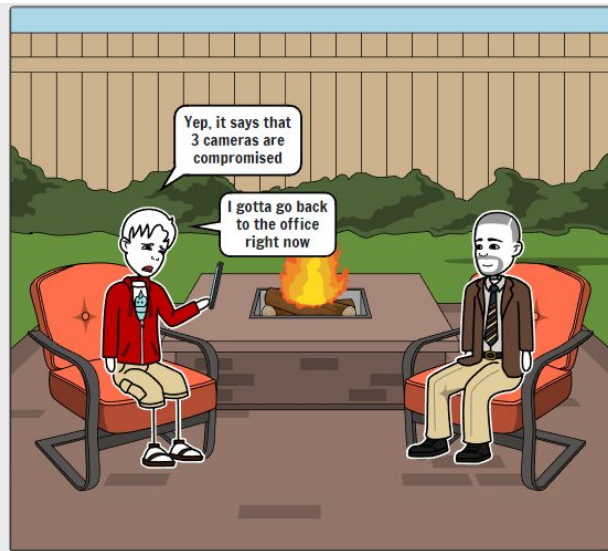
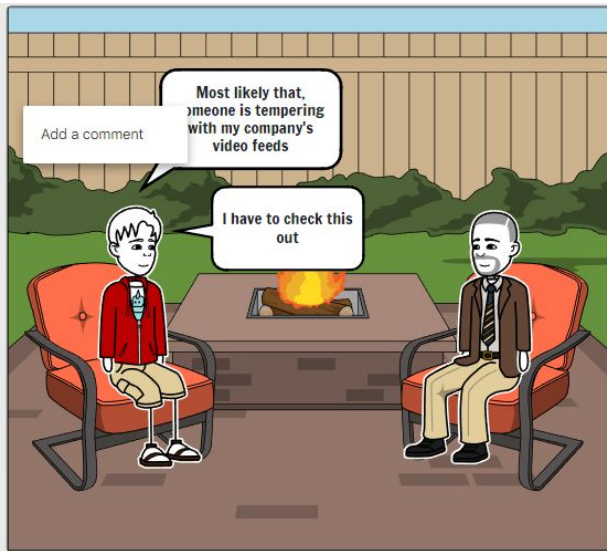
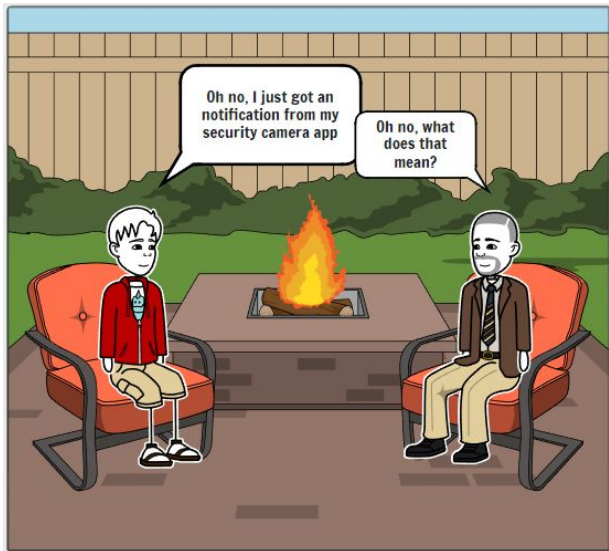
# Secure IoT camera system

Innovation project

Tiitus Telke, Leevi Paattilammi, Abdulla Masum, Merili Elnadi,  
Jasu Honkanen

# Product concept

- Security camera system with multiple modules
- Highly secure
- Camera module
  - runs on IP-camera
- Analytics module
  - software either on-premises or in-cloud
- UI module
  - on end user's device





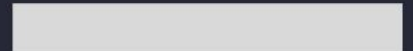
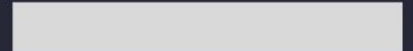
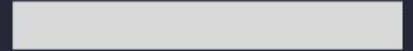
# UI ideas



Live feed



Events:



Circle



# Technical details

- Among camera feed metadata is published on MQTT
- Backend analysis checks that the feed is from actually from the real camera device
  - Possible implementation is using a certificate signed by a key from the device's TPM chip
- UI backend that subscribes both to camera data and analysis data and shows the feed + alerts if analysis finds something concerning

