

# Exam Invigilation:

## Exam I.D. Validation Using Student Photos

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# Overview

- Background
- Solution Implementation
- Application Pilot
- Demo
- Lessons Learned
- Next Steps

# Background:

## Student Photo Project

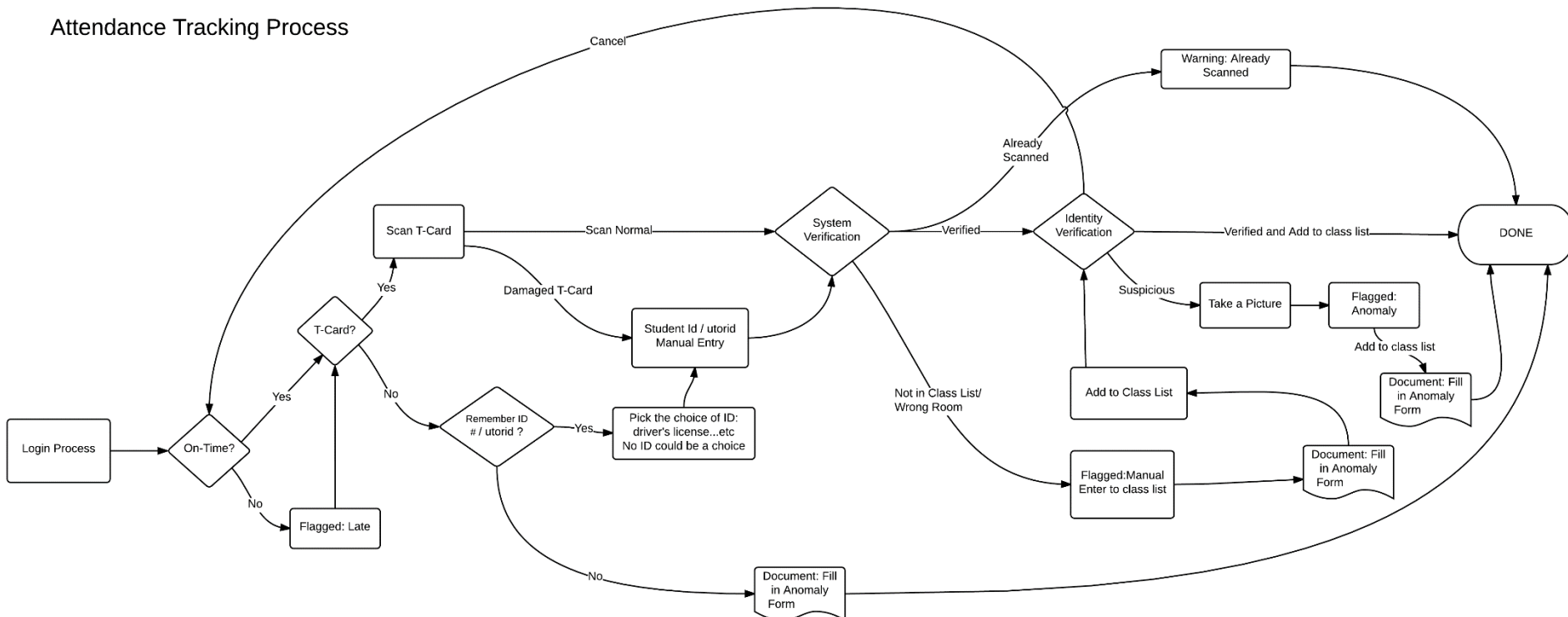
- U of T started saving photos at the enterprise level in 2014
- Identified a need for official photos in key areas:
  - Academic Integrity
  - Safety and Security
  - Community Building

# Solution Implementation: Consultation

- Goal to create an enterprise application
- Met with divisions at both the Graduate and Undergraduate level
- Walked through all exam processes to identify commonalities
- Consulted with U of T Mississauga

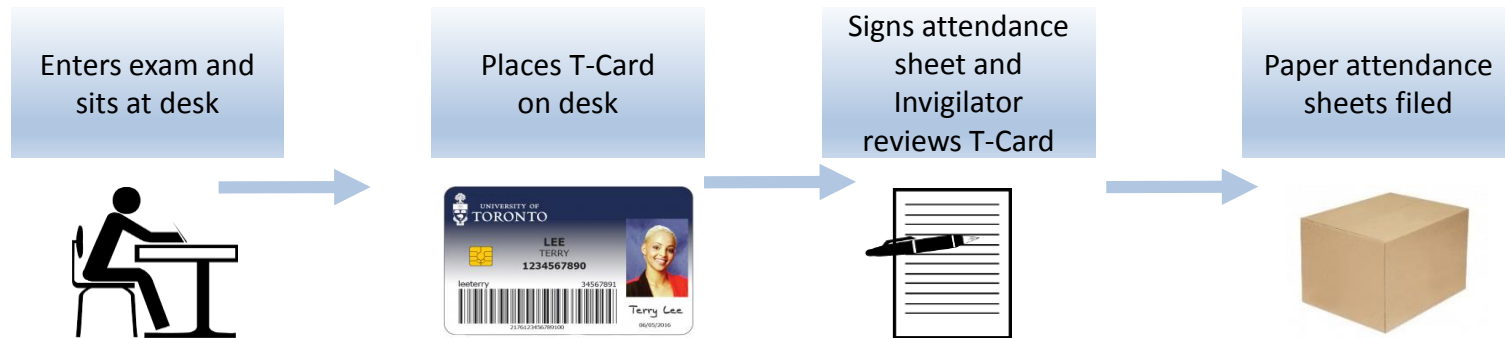
## Solution Implementation: Business Process Mapping

Attendance Tracking Process

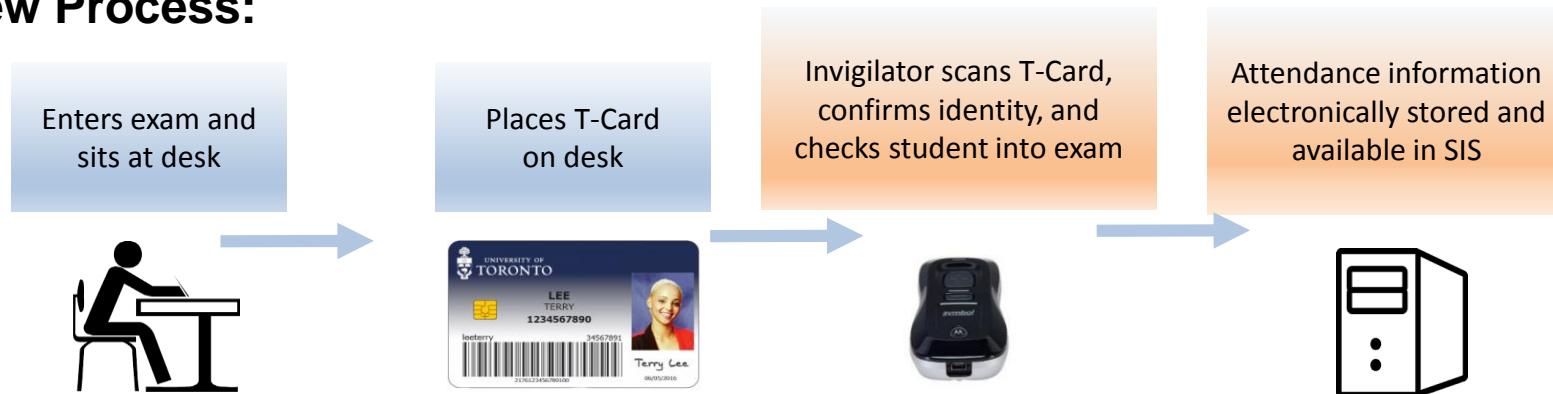


## Solution Implementation: Process

### Current Process:



### New Process:



# Solution Implementation: Security

- Decentralized access management
- Two-factor authentication
- Online application that receives and saves data in real-time
  - No information stored on the device

## Solution Implementation: Hardware



Samsung Galaxy Tab



Motorola CS3070



One Time Password Token



# Application Pilot: Project Plan

- U of T Scarborough volunteered to pilot
- Followed Agile methodology
- Involved in all aspects of the project:
  - Planning and requirements
  - Development
  - Testing

# Application Pilot: Risk Management

Risk	Mitigation
Wi-fi reliability and strength	- Tested devices in exam room prior to exam
Device issue	- Ensure devices are fully charged and updated - Bring a back-up device
Database issue	- Review critical dates and timing of exams
Application failure or problem	- Project team on site for support - Back-up plan in place

# Application Pilot: Results

- Successfully piloted 4 exams during the winter exam period
- 204 students were checked-in and verified
- 15 minutes for 1 invigilator to check-in ~50 students

## Demo



## Lessons Learned

- Involvement of business and end-users
- Utilizing prototyping and mock-ups prior to the start of development
- Project team attending pilot exams

## Next Steps

- Review and prioritize enhancement requests from the pilot
- Build a dedicated web-space and user support documentation
- Develop a rollout plan for easy on-boarding of other divisions

The screenshot shows the University of Toronto EASI Student Information Systems for Staff website. The header includes the University of Toronto logo and the text "EASI Student Information Systems for Staff". The navigation menu includes "HOME", "ACADEMIC", "RESIDENCE", "FORMS", "POLICIES", and "Search". The breadcrumb trail is "Home > Invigilation". The main heading is "Exam Invigilation Application". Below the heading is a description: "A tri-campus application that allows for student identification during exams using a tablet device." followed by three bullet points: "Ensures proper visual and digital authentication of students writing exams", "Enables automated attendance tracking within exams", and "Replaces inefficient paper-based identity management and attendance tracking processes". The footer contains four columns of links: "Invigilation Application" (More about the invigilation application), "ROSI Express Integration" (How the invigilation application connects to ROSI Express), "Hardware" (The invigilation application has specific hardware requirements), and "FAQ" (Frequently Asked Questions, How-To's and User Tips).



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Questions?