Chapel Checking System RAD and User Manual

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Costs of the Current System

- Expensive
- Outdated over 10 years
- Slow checkout
- Time-consuming upload process
- Faulty crashes
- Password Single generic password

Purpose of the New System

- increase the productivity of checkouts at chapel events
- decrease the costs of credit checking equipment
- decrease the work needed to upload information

Objectives of the New System

- 1. Sign-in for chapel checker by tapping card to authenticate user
- 2. Select an event from the current time slot to give credits for
- 3. Quick processing of students tap, beep, and go
- 4. Indication of successful scan with nice beep and code displayed
- 5. Non-Credit button for late students to block credit for the student
- 6. Done button to end credit checking for the specific event
- 7. Automatic syncing and backup of stored student attendance for the chapel event

Proposed System

Windows 10 tablet/laptops

• RFID USB plug-in



Functional Requirements

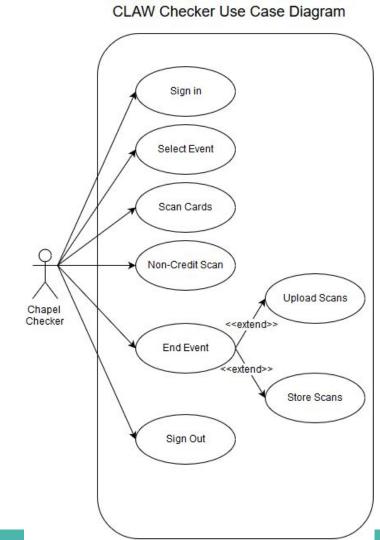
- The chapel checker must be able to log-in to the system in order to access the events page, as well as the scanning window.
- The students should be able to tap their card to the RFID scanner and have the information read correctly.
- After the scanning of the card there should be both a visual and audio confirmation that the card was read.
- The chapel checker should be able to access the blacklist to scan an id
- The "done" button should be able to be accessed by the checker and should also save the file of ids locally
- The files should also be set up to upload automatically to the server

Nonfunctional Requirements

- Usability Easy to learn
- Reliability Reads and stores student information without much error
- Performance Responsive, around a second to process an ID
- Supportability Application code will be in possession of CTS
- Implementation Windows 10 Devices, USB port
- Interface Access to student ID database and Go.Gordon server
- Packaging Installed on Windows 10 devices by us and CTS
- Legal No known liability issues or licensing fees
- Interface Gordon colors, pleasant scan feedback noise

Use Case Diagram

Actor: Chapel Checker



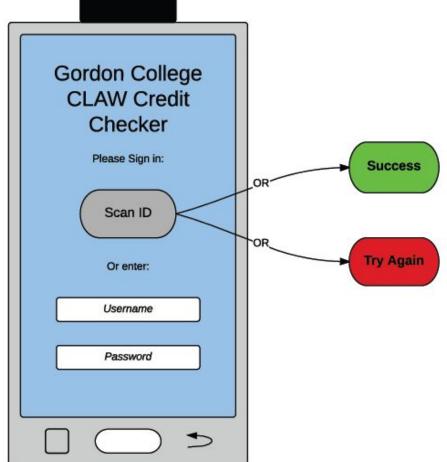
Scenarios

- Sign-in
- Select Event
- Scan Cards
- Non-Credit Scan
- End Event
 - Upload to Server
 - Local Store
- Sign Out

User Manual Slides

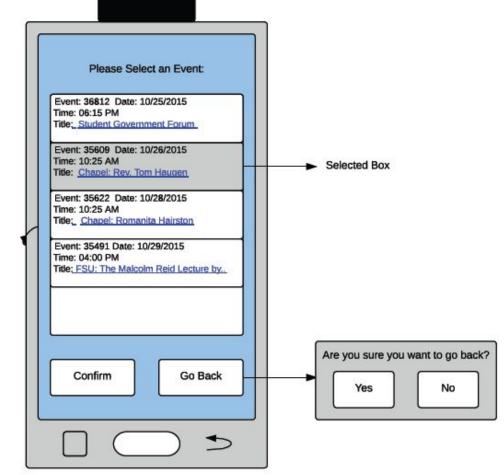
CHECKER SIGN IN PAGE

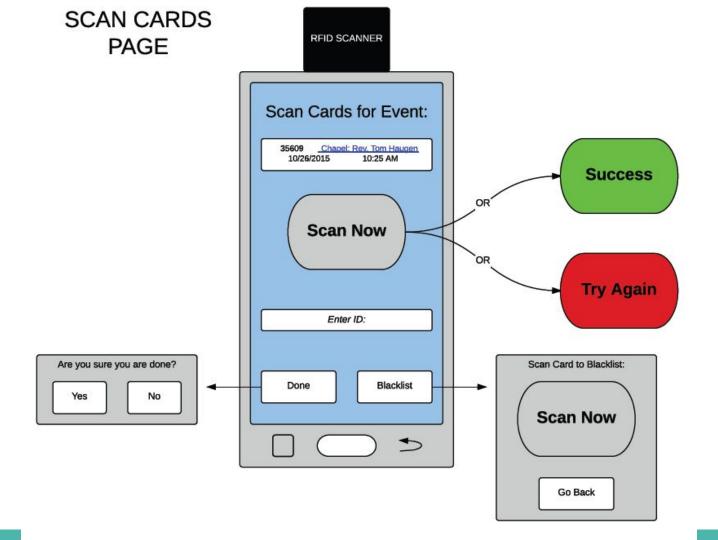




SELECT EVENT PAGE







RESULTS PAGE

RFID SCANNER

