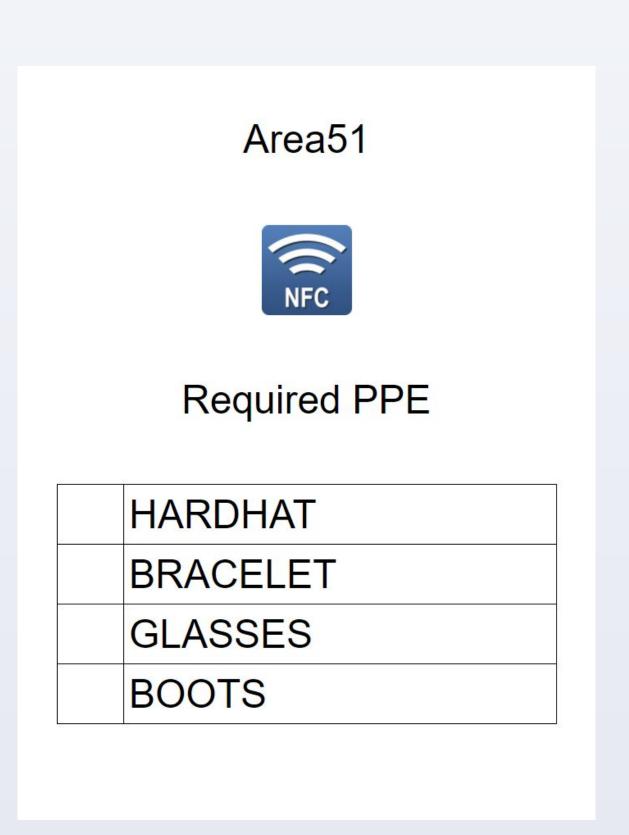
Personal Protective Equipment Authentication System

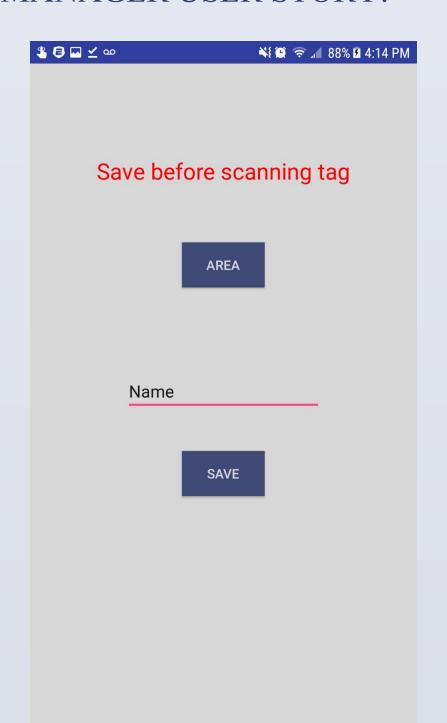
By Joel Valleroy, John Boone, Ben Heinrichs, and Todd Gardiner
– Mentor: Dr. Ledgard

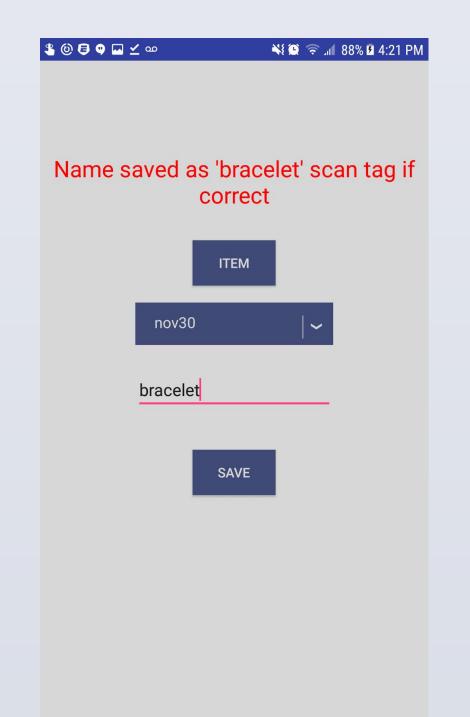
University of Toledo, EECS:4020 Senior Design II, Fall 2017 – Dr. Niamat

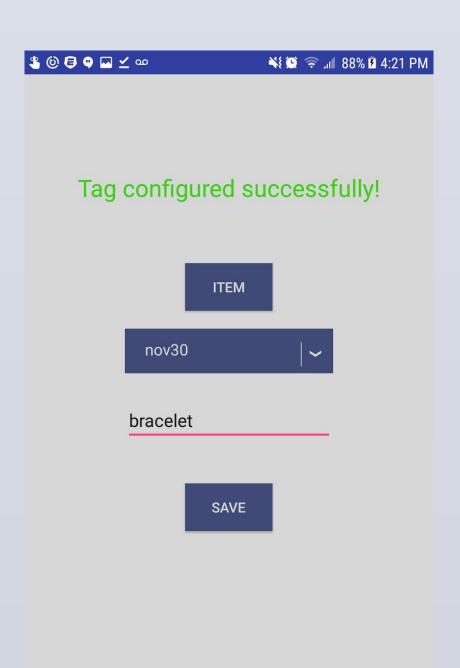
EXAMPLE



MANAGER USER STORY:







SUMMARY

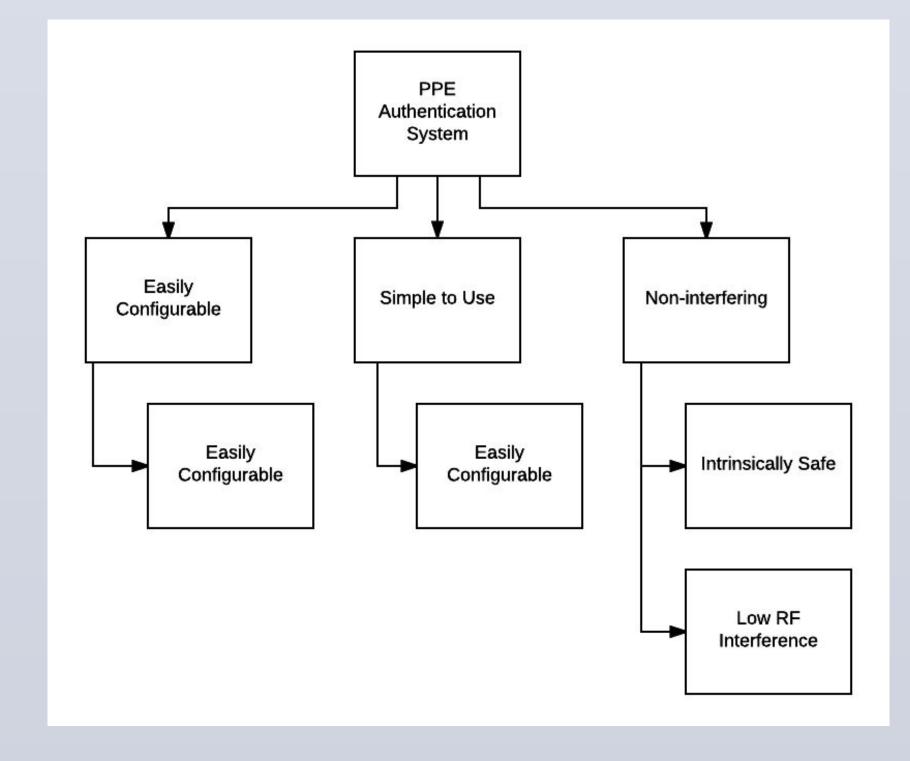
According to OSHA (Occupational Safety and Health Administration), personal protective equipment, also referred to as "PPE", is equipment worn to minimize exposure to hazards that cause serious workplace injuries and illnesses. These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards. Personal protective equipment examples may include items such as gloves, safety glasses and shoes, earplugs or muffs, hard hats, respirators, or coveralls, vests, and full body suits.

Our product, the PPE Authentication System, is a system that checks a worker for the proper PPE before they enter an area that requires a specific set of PPE. This will add confidence that every worker is wearing the proper protection, therefore leading to fewer injuries and a safer workplace for everyone. Safety in the workplace is very important, and thanks to organizations such as OSHA, is becoming more of a priority. Our PPE checker will definitely improve the consistency and usage of the proper equipment people need to wear. Our goal is to help eliminate people from being in areas of a factory, or really anywhere PPE is needed, without having the proper gear.

OBJECTIVES

- Create an application that can be used to map safety areas and items
- Confirm all required safety requirements before using machine or accessing area
- Make the application run on modern platforms
- Ensure the application is easily modifiable by safety managers
- Ensure the application is easily usable by employees
- Make sure the application is cost efficient

Create a safer workplace ensuring proper PPE is worn!



ARCHITECTURE DATABASE SCHEMA: ♦item_19 TEXT item_22 TEXT item_23 TEXT item _25 TEXT EMPLOYEE USER STORY: room24