1. Requirements (10)
   1. The system shall conform to ISO/IEC 18000-63:2015(tag communication with scanner)
      1. Communication Interface
   2. The RFID scanner shall read RFID tags with a maximum separation distance of no more than 20 meters
      1. Performance Requirement
   3. RFID tags shall transmit an identification signal unique to the TriageTag system
      1. System Feature ?
   4. TriageTag system shall include at least 1 mobile device
      1. System Feature
   5. TriageTag system shall include at least 1 RFID scanner
      1. System Feature
   6. TriageTag system shall include at least 1 passive RFID tag
      1. System Feature
   7. TriageTag system shall include a single master database stored on a local server
      1. System Feature
   8. A local copy of the master database shall be loaded onto each TriageTag mobile device
      1. System Feature?
   9. The master database shall synchronize information with local databases
      1. Software or Hardware interface?
   10. The mobile device shall run the TriageTag application
       1. ?
   11. The TriageTag application shall utilize user authentication protocol to access local database
       1. Security Requirement or User Interface?
   12. The TriageTag application shall utilize user authentication protocol to access master database
       1. Security Requirement or User Interface?
   13. The mobile device shall operate using an internal, rechargeable energy storage device with a minimum capacity of 2500mAh
       1. Performance Requirement
   14. The mobile device shall display a user interface
       1. User Interface
   15. The user interface shall allow the operator to access the local database
       1. Software Interface
   16. The user interface shall allow the operator to initiate the synchronization process between the local database and master database
       1. Software Interface
   17. The mobile device shall be electronically compatible with the RFID scanner
       1. Communication Interface
2. Constraints
   1. Technical (5)
      1. RFID tag will maintain full functionality in temperatures ranging from -20ºF to 180ºF
         1. Design Constraint
      2. RFID tag will have an Ingress Protection Rating (IP) of 55
         1. Design Constraint
      3. RFID tag will be passive-energized by RFID scanner
         1. Design Constraint
      4. RFID tag will be maximum of 5 centimeters long, 5 centimeters wide, and 2 centimeters thick
         1. Design Constraint
      5. The database will be able to manage more than 100 personnel records and not more than 200
         1. Design Constraint
   2. Non-Technical (5)
      1. All aspects of the system will conform to the Health Insurance Portability and Accountability Act (HIPAA)
         1. Implementation Constraints
      2. The RFID tag and scanner will conform to all Federal Communications
         1. Implementation Constraints
      3. Commission (FCC) radio spectrum allocation regulations for RFID devices
      4. The TriageTag application will be deployable on an open source operating system
      5. The TriageTag system will employ commercial off the shelf components (COTS)
      6. All medical records will be encrypted according to the AES specification
3. Standards
   1. TriageTag system will conform to HIPAA Security Rule 45 C.F.R. §§ 160
   2. TriageTag system will conform to HIPAA Security Rule 45 C.F.R. §§ 162
   3. TriageTag system will conform to HIPAA Security Rule 45 C.F.R. §§ 164
   4. TriageTag system will conform to IEEE Standard 1451.7-2010
   5. TriageTag system will conform to IEEE Standard 11073
   6. Advanced Encryption Standard (AES)
   7. Transmission Control Protocol (TCP)