1. Requirements (10)
   1. The RFID tags shall be compatible with the RFID scanner
   2. The RFID scanner shall read RFID tags with a minimum separation distance of 10 centimeters and not more than 20 meters
   3. RFID tags shall transmit a unique identification signal
   4. TriageTag system shall come with at least 1 mobile devices
   5. TriageTag system shall come with at least 1 RFID scanner
   6. A local copy of the master database shall be loaded onto each TriageTag mobile device
   7. The master database shall synchronize information with local databases
   8. The mobile device shall run the client application
   9. The server shall run the server application
   10. The client application shall have user authentication
   11. The server application shall have user authentication
   12. The mobile device shall operate using an internal rechargeable battery
   13. The mobile device shall be equipped with externally accessible recharging port
   14. The mobile device shall display a user interface
   15. The user interface shall allow the operator to access the local database
   16. The user interface shall allow the operator to initiate the synchronization process between the local database and master database
   17. The mobile device shall be compatible with the RFID scanner
2. Constraints
   1. Technical (5)
      1. RFID tag will maintain full functionality in temperatures ranging from -20ºF to 180ºF
      2. RFID tag will have an Ingress Protection Rating (IP) of 55
      3. RFID tag will be passive-energized by RFID scanner
      4. RFID tag will be maximum of 5 centimeters long, 5 centimeters wide, and 2 centimeters thick
      5. The database will be able to manage more than 100 personnel records and not more than 200
   2. Non-Technical (5)
      1. All aspects of the system will conform to the Health Insurance Portability and Accountability Act (HIPAA)
      2. The RFID tag and scanner will conform to all Federal Communications Commission (FCC) radio spectrum allocation regulations for RFID devices
      3. The client application will be deployable on an open source operating system
      4. The TriageTag system will employ commercial off the shelf components (COTS)
      5. 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)