Cross-platform RFID positioning system

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**Scope:**
Develop a Cross-platform application for indoor positioning of metal parts using passive UHF RFID system

**Time lines:**
Project Start Date: 01-05-2019
Expected Completion Date: 30-12-2019

**Objectives:**
- Implementation of a platform independent communication server which reads the RFID tag data.
- DBMS of the collected data.
- Cross platform accessibility through web browsers.
- Visual representation of data captured.
- If possible, dynamic real time representation of tag position in 3d space.
Start

Acquire (known) training data and input test samples

Define class for training dataset

Initialization, define K

Compute distance between all test samples and training dataset

Sort out distances and find the K nearest neighbours to each test sample

Apply simple majority and set max label class of K to each test sample based on min distance

Any unknown sample remains?

No → Stop
Front End Using SVG with direction
Thanks!