# Problem

* Need to build a TAR for Ccbill
* Job of the application as asked from CCbill
  + Gives information about what each office and room is used for in the building
  + Shall we add markers to also direct the user to where an office might be?

# Methodologies

* Waterfall Method / Scrum/ Agile
* The company is used to an Agile methodology this is preferred over the others.
* Benefits of Agile
  + Benefits from face to face communication
  + Change is embraced
  + Faster high-quality delivery
  + Continuous improvements
* Disadvantages of Agile
  + Planning less concrete
  + Time commitment from devs
  + Different final product if not careful

# The Current State of the Art

The current state of Augmented Reality when applied to the world of industry to train employees is still in its infancy. Prototypes have been built and tested, several of these prototypes have been mentioned in the papers read. The prototypes built vary in functionality, for example assisting mechanical interns in fixing a wind turbine, giving information regarding specific medical equipment, using AR in food industry. Something which has interested me in continuing to develop as little contribution has been made, is creating an augmented reality intelligent tutoring system.

Most researches followed a specific trend. They normally started by finding out what Augmented Reality is and its origin, then a decision was made on how to acquire qualitative and quantitative data. Normally the quantitative one was done through interviews and questionnaires. Then they moved on to designing and building the prototyping according to the users (people who took part in the data collection phase) requirements. The testing of the prototype was then performed on the same people who took part in the data collection phase. This was to evaluate and improve the prototype and make it as perfect as possible.

The gap, which I wish to keep exploring is in creating an intelligent tutoring system combined with an augmented reality system. The system would be able to show the employees the facilities and how to use them of CCBill. It will also show them how to make use of any equipment within the facility. This may help the workers easily adjust to the new environment and lifestyle within the company, which can be difficult to do at first.

# Aim and Objectives

* Deliver an augmented reality which will help newcomers and interns adjust to the building they are working in and its lifestyle.
* The objective is that the worker will take less time to adjust to his/her place of work, making it easier for them to work at an earlier stage.

# Types of AR apps

* Marker-based
  + Image recognition
  + Provide data beforehand
* Location-based
  + Detect user’s position using GPS, accelerometer like Pokemon GO

# Top 6 AR SDK for mobile apps

* Vuforia
* ARToolKit – best for location based
* ARCore
* Maxst
* https://www.infoq.com/articles/augmented-reality-best-skds/