Department of Computer Sciences

Course Name:

Software Enigneering

BSCS-5th

Course Instructor:

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Dated:

06-10-2017

Project Proposal

Introduction:
The purpose of this project is to deploy an intelligent attendance system for educational institutes. This system is based on IOT (internet of things) in which we will be using different sensors such as:

- Walk in-out sensor
- QR code Detector

And link these sensors with the online attendance of the educational institute. Complete information of students will be stored in database.

Clear statement of Problem:
Teacher will not recall the attendance because attendance will be marked automatically with the help of QR code and walking sensors.

Objectives and scope:
It's objective is to make the attendance system more accurate. The use of both sensors (QR code Detector and Walk in-out sensor) is important because if we just use QR Detector then single student can mark attendance of other students by scanning the QR code of others students ID cards. If only walk in-out sensor will be used then identification of the students entering in the class will not be possible. That's why if both are used at the same time then student's QR code will be scanned first and then walk in sensor will detect him/her.

Motivation:
It will resolve the issue of proxy attendance and teachers won't be blamed for the students attendance. It will also save time to manage the attendance of students.

Project Plan:

Project plan will be designed with the collaboration of the supervisor.

Resources Required:

Following are the required resources:

Software Resources:

- Visual Studio
- Ardino Tool
- SQL Database

Hardware Resources:

- QR code Detector

- Walk in-out sensor

- PC i5 2.3GHz

- 500GB Hard

- 4GB Ram

- Full Internet access