Advance industrial safety system.

Project Finalize:

We are trying to make a project that will helps the industry to being avoid unexpected accidents. First of all, we will make a smart door lock system in the main gate of that particular industry. Every worker's of that industry will have a unique RFID card and they can punch that card and pass that gate. We are also going to make a safety system for that industry. By using different type of sensors, we can make better safety system. We will use fire, smoke and gas detector that can give us a warning and we avoid an unwanted situation. We will also add a vibrate sensor and if the sensor detects a certain level of HZ vibration it can give a warning.

We will add another feature for security purpose that circuit can give us a warning if any person will come and stay more than 90 seconds Infront of that door.

Objective:

The main purpose of our project is given bellow:

- To make a smart door lock system for registered staffs using RFID card so they can punch their card in door and pass that gate.
- To make a safety system using smoke, fire, gas and vibration sensor and this system will give us notification for any warning situation in that industry.

Equipment & Cost:

		1	
NUMBER	EQUPMENT	quantity	PRICE
1	ARIDUINO UNO	2	800
2	RFID RC522 Module	1	170
3	Really Module	1	129
4	12V solenoid lock	1	750
5	Hall effect sensor	1	70
6	10K resistance	2	5
7	Buzzer	3	15
8	RFID card	3	105
9	smoke sensor	1	155
10	gas sensor	1	190
11	fire detector	1	130
12	vibration detector	1	85
13	sonic sensor	4	360
14	display	1	273
15	PCB board	2	30
16	cork sheet		200
17	jumper wire		100
		total	3567

Timeline:

	Day 1	Day 2	Day 3
Week 1	Team meeting &	Team meeting &	Making Final
	Collect information	Idea finalize	proposal
	from google.		
Week 2	Making list of all	Discuss about cost	Collect all
	equipment.	and equipment.	equipment.
Week 3	Collecting	Circuit set up.	Circuit set up
	information about		(continue).
	RFID door lock		
Week 4	Making ARDUINO	Making ARDUINO	Compiling code and
	code for door lock	code for door lock	testing.
	system.	system (continue).	
Week 5	Smoke & gas	Making ARDUINO	Compiling code and
	detector circuit set up	code for gas and	testing.
		smoke detector	
		system.	
Week 6	vibration & fire	Making ARDUINO	Compiling code and
	detector circuit set up	code for vibration &	testing.
		fire detector system	
Week 7	All safety sensor set	Making ARDUINO	Compiling code and
	in one circuit	code for all safety	testing for all safety
		sensor.	sensor.
Week 8	Object detector	Making code for	Compiling code and
	circuit set up.	object detecting	testing for object
		circuit.	detector.
Week 9	Body	Body implementation	Body implementation
	implementation.	(continue).	(continue).
Week 10	Circuit set up with	Final implementation.	Final implementation
	body structure.		& testing.
Week 11	Presenting Final	Final editing (if	Submission.
	project	needed).	