PROJECTS – .NET WITH EMBEDDED SYSTEMS

1.	**Smart helmet with data backup**

A SMART HELMET is a type of protective headgear used by the rider which makes Bike driving safer than before. This can be implemented by using advanced features like alcohol detection and helmet detection. This makes it not only a smart helmet but also a feature of a smart bike.

It is compulsory to wear the helmet, without which the ignition switch cannot turn ON. A Bluetooth/wifi model can be used as wireless link for communication between helmet unit and bike unit. If the rider is drunk the ignition gets automatically locked, thus rider cannot start the bike. It necessary to provide proper medical attention when met with accident, this can be done by alerting the concerned person which will provide solutions to other major issues for accidents.

2.	**.NET based Wheel alignment system**

A computer based wireless automobile wheel alignment measurement system using accelerometer is presented in this paper, which has the advantages of simple circuit, low cost , high resolution with high working reliability. The causes and effects of improper wheel alignment by traditional methods are analyzed in the model. In this system wireless transmission techniques are adopted to transmit data between measuring unit and computer. This makes the measurement operation much easier. This paper presents unique and innovative use of accelerometer for the measurement of automobile wheel parameters, such as camber and toe. The hardware and software realizations are also explored in this paper. The system practical application shows that its performance meets the design requirements.

3.	**Black box system with application interface**

This project discusses the configuration and functions of the Car Black Box System. It also focuses on monitoring of real-time driving and also records and saves the monitored data for further investigation in the case of an accident. This system helps the accident investigators as well as insurance companies to find out the cause of the crash. Other features such as navigation, speed tracking and Alcohol detection are also provided in the system. The perspective of this project is to make the user feel more safety about the car and to help knowing the actual cause of accidents if any.

4.	**IoT based health monitoring system**

The internet of things, or IoT, is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. IoT can automate patient care workflow with the help healthcare mobility solution and other new technologies and next-gen healthcare facilities. IoT in healthcare enables interoperability, machine to machine communication, information exchange, and data movement that makes healthcare service delivery effective.

5.	**.NET based Semi Automated Restaurant**

Nowadays people are looking forward for a system that will satisfy their needs more comprehensibly. Most of the restaurants industries are looking for any application that enhances the dining experience as well as that increase the profit. The traditional food ordering system is entirely a manual process which involves waiters, pen and paper. The customer has to wait for waiters to take the order. The waiter notes down the orders from customers, take these orders to kitchen department, update them in records and again make the bill. Though this system is simple; it may involve errors while noting down the orders as well as in making calculations. Even it is sometimes difficult to interpret the handwriting of the waiter. To overcome these limitations in manual system, some systems are being developed to automate food ordering process. By using Smart Restaurant Ordering System, the ordering system is made more efficient and can help the manager to avoid human error and enhance business development. In this system, ordering transaction is a step by step process to make the transaction more systematic and system can guide the staff to avoid any order mistakes. The transaction

between waiters and restaurant departments and also between waiters and cashier will be systematic and efficient. Besides the efficiency, this system can give better quality of service to customers and will attract more customers to get this quality services.

6.	Accident Alert using GPS Technology and Automated Traffic Light Control for Ambulance
	The rapid growth of technology and infrastructure has increased traffic hazards, road accidents and hazardous situations which cause huge loss of health and life due to the late arrival of emergency services. Factors that cause the delay in arrival of help are due to the lack of coordination between emergency services and large traffic. Hence, the system is proposed which will provide an optimized solution to this drawback by coordinating between emergency facilities to increase efficiency of rescue process. It requests for immediate help in case of any emergency situations by detecting the accident by the help of vehicle unit fixed on the vehicle. This system will then contact the nearest hospitals and the ambulance services to the site of the emergency. The unit starts working after it gets network from SIM Card. An impact sensor senses the impact caused by collision. When the accident is detected, the location is decoded from the output of a GPS module and this data is sent as a message to an emergency centre by using a GSM module.
7.	Power optimisation and monitoring with application interface
	This project proposes the examination of Electricity and Power Theft Detection which expects to identify any theft identified with power. Electrical vitality is extremely basic and significant for regular day to day existence and goes about as a spine for the industry. Power is in control to our day to day life and plays an important role in every possible way thus with expanding need of power the relating power robbery concerning power is likewise expanding. Power theft is a serious issue that keeps on plaguing power segment over the entire nation. The objective and motive of this project is to design a system in order to avoid the displeasure for the users from theft. This project manages robbery control system. To give solution over this, Bluetooth module is utilized to impart the sign to the power board. The measuring of energy meter and monitoring is required and it is done with Arduino Uno. The useful framework will be useful for the power board to screen the whole gracefully with no accident or bother. This model decreases the manual control work and robbery control and this prompts accuracy with respect to charging data.
8.	.NET based Smart city
	The Smart Cities project is creating an innovation network between governments and academic partners that is leading to excellence in the development and take-up of e-services and e-government, and which is setting new standards for e-service delivery across the whole North Sea region. The proposed system approaches towards the development of smart cities and includes below features: • Rain density measurement and pre-alert for flood detections. • Accident detections and automatic location identification to the monitoring stations. • Traffic Density Management and control system.
9.	RFID/coin based mobile charger
	The coin-based mobile charger designed in this paper is providing a unique service to the rural public area. Where grid power is not available for partial/full daytime so we use coin based mobile charger using radio frequency identification and a source of revenue is provided. The coin based mobile battery charger can be quickly and easily installed outside any business purpose. The mobile phone market is a vast industry, and has spread into rural areas, public places and railways etc. as a essential means of communication. While the urban people use more complex mobiles with good power batteries lasting for several days, the rural people buy the mobile phones that require charging instantly. So many times battery becomes dead in the middle of conversation

particularly at inconvenient times when access to a standard charger is not possible, so we use this coin-based mobile battery chargers are made to solve this huge problem. The user has to plug the mobile phone into one of the adapters and insert a coin or RFID reader then phone will then be given a power for charging. The capacity of mobile charging is developed with the help of fixed values. It is, of course, possible to continue charging the mobile by inserting more coins or RFID reader.

10.	Smart streetlight with vehicle speed detection system

Smart Street light is an automated system which automates the street. The main aim of Smart Street light is to reduce the power consumption when there are no vehicle movements on the road. The Smart street light will glow with high intensity when there are vehicles on the road otherwise the lights will remain dim. Using IR sensor we can also check the speed of the vehicle. With advancement of technology, things are becoming simpler and easier for everyone in the world today. Automation is the use of control systems and information technologies to reduce the need for human work in the production of goods and services. In the scope of industrialization, automation is a step beyond mechanization, whereas mechanization provided human operators with machinery to assist the users with the muscular requirements of work, automation greatly decreases the need for human sensory and mental requirements as well. Automation plays an increasingly important role in the world economy and in daily experience. Automatic systems are being preferred over manual system. The research work shows automatic control of streetlights as a result of which power is saved to an extent. The Smart street light provides a solution for energy saving which is achieved by sensing an approaching vehicle using the IR sensors and then switching ON a block of street lights ahead of the vehicle with high intensity. As the vehicle passes by, the trailing lights turn dim automatically. Thus, we save a lot of energy. So when there are no vehicles on the highway, then all the lights will remain dim.

11.	Smart traffic control system

Most people in a metropolitan city will surely have faced the difficulty to reach home by a few minutes earlier than the usual timings, all thanks to the traffic. Many at times, the green light would be shown to empty roads when many other people would be waiting for a wink of it. To bring a change to this scenario, a new plan can be implemented by making the traffic lights a little intelligent. The lights must be able to know which side of the junction actually requires the green light. In order to enable our traffic lights with this capability, this paper proposes a way of training the traffic lights by positioning IR sensors and RFID chips to help detect the extent of the traffic. The RFID will be useful for assisting the fast movement of emergency vehicles and the IR sensors can check if the road is free or not.

12.	Mining workers tracking and safety system with application interface

Here we propose a mining tracking as well as safety system for the mining industry using microcontroller based circuit on the worker helmet. We use rf based circuitry to detect workers moving through the entire mining site. The helmet is integrated with an rf based tracking system which in coordination with the tracker rf systems helps provide data over IOT. The system makes use of atmega microcontroller based rf tracker circuitry to receive the data transmitted by worker helmet nodes. This helps map the current location of workers through the entire mining site. Moreover each worker helmet circuit is integrated with a panic/emergency button. This button when pressed shows an emergency sign over the IOT web interface about the worker emergency. This can be used for any emergencies like – toxic gas inhalation, cave ins, physical injury etc. Thus the system ensures mining worker safety using IOT.

13.	Automated Paralysis Patient Healthcare System Project with application interface

We come across hospitals and NGO's serving paralytic patients who have their whole or partial body disabled by the Paralysis attack. These people in most cases are not able to convey their needs as they are neither able to speak properly nor do they convey through sign language due to loss in motor control by their brain. In such a situation we

propose a system that helps disabled person in displaying a message over the LCD by just simple motion of any part of his body which has motion abilities. This system also takes care of the situation wherein no one is present to attend the patient and thus sending a message through GSM of what he wants to convey in SMS. Our proposed system works by reading the tilt direction of the user part.

14. .NET based Anti Terrorism vehicle authorizing System

In this time of worldwide terrorism, there is a real need to provide promising security solutions in military zones. For the most part, the security needs to be guaranteed while a vehicle seems to enter unauthorized into any sensitive premises. The unapproved vehicles must not be permitted inside. Anyhow, the manual checking of the vehicles is not conceivable and so reliable activity to depend upon. Thus, we are set to fabricate a brilliant wireless correspondence framework, which is mounted in the vehicle that can offer an amazing security system.

We propose a robotized check post framework where the vehicle is fitted with a remote embedded framework. This remote framework constantly transmits the vehicle information like the sort of motor number and the ID of an auto vehicle. This information is procured and processed by the framework at every check post. Just after getting an approval from a processor unit, the vehicle can pass the check post else it will be stopped.

If there is any unapproved vehicle, the check post framework alerts the embedded framework, which in turn stops the vehicle to enter into the secured premises.

15. Connected cars (vehicle to vehicle communication)

The applications of this concept consists of providing our cars and roads with capabilities to make the road more secure (information about the traffic, accidents, dangers, possible detours, weather, etc.) and to make our time on the road more enjoyable (Internet access, network games, helping two people follow each other on the road, chat, etc.). These applications are typical examples of what we call an Intelligent Transportation System (ITS) whose goal is to improve security, efficiency and enjoyment in road transport through the use of new technologies for information and communication (NTIC).

16. .NET based Automation System in Hospitals using RFID technology

RFID is a technology being adopted in many business fields, especially in the medical field. This work has the objective to present a system for automation of a hospital clinical analysis laboratory. This system initially uses contactless smart cards to store patient's data and for authentication of hospital employees in the system. The proposed system also uses RFID tags stuck to containers containing patient's collected samples for the correct identification of the patient who gave away the samples. This work depicts a hospital laboratory workflow, presents the system modelling and deals with security matters related to information stored in the smart cards.

17. Smart Building using IoT & PIR with application interface

This is a project-based course in which you will build an IoT based electronic device that forms the basis of smart buildings. Smart buildings are the ones where various parameters like temperature, lights, water etc. are monitored and analysed so as to make it highly efficient. In this project, we will work on smart lights in a smart building. Here we sense the number of occupants in the meeting room with the help of PIR sensors and automatically switch the lights ON/ OFF based on occupancy. You will be able to analyse the usage of the meeting room, number of persons at various times of the day, the time for which lights are on and the power consumed.

18. IoT based Smart parking system with application interface

In this paper, we present an IoT based cloud integrated smart parking system. The proposed Smart Parking system consists of an on-site deployment of an IoT module that is used to monitor and signalize the state of availability of each single parking space. A mobile application is also provided that allows an end user to check the availability of parking space and book a parking slot accordingly. The paper also describes a high-

level view of the system architecture. Towards the end, the paper discusses the working of the system in form of a use case that proves the correctness of the proposed model.

19. .NET based Coal Mine System for Safety Monitoring & Alerting
The accidents in coal mines are increased day by day. There are numerous life losses of many skilled workers and labourers. There is no advent precaution measure to detect the alarming cause of the coal mine accidents and provide an alert system. Occupational accidents and occupational diseases are common in the mining. The most common causes of accidents in coal mining are firedamp and dust explosions, landslips, mine fires, and technical failures related to transport and mechanization. An analysis of occupational accidents in the consideration of social and economic factors reports that the real causes behind these accidents, which are said to happen inevitably due to technical deficiencies or failures. Thus an automated alarming coal mine accident detection system is employed to rescue and protect the workers from the hazards. This system incorporates the combined action of the temperature, pressure and gas sensor and IOT module to detect the temperature, pressure and atmosphere in the coal mine and log every data onto the cloud using data logging. Then these data are accepted by an admin controlled sever page through data acquisition. The data processing takes place at a server page and the alert is send to the device to glow the alarm and to the concerned officials and

20. Intelligent Vehicle Control Using Wireless Embedded System in Transportation System Based On GSM and GPS Technology with application interface
Currently almost of the public having an own vehicle, theft is happening on parking and sometimes driving insecurity places. The safe of vehicles is extremely essential for public vehicles. Vehicle security and accident prevention is more challenging. So in order to bring a solution for this problem this system can be implemented. Vehicle security enhancement and accident prevention system can be developed through the application of ignition control (tracking and locking), fuel theft, accident detection and prevention, driver fatigue, pollution control and speed limiting with efficient vehicle management system. The need for this project is to provide security to the vehicles by engine locking system which prevents the vehicle from unauthorised access. This technique helps to find out the exact location of the accident and with the help of server an emergency vehicle can be sent to the exact location to reduce the human life loss. It also detects the behaviour of the driver through sensors whether he/she is drowsy or drunk, so that occurrence of accident can be prevented. The place of the vehicle identified using Global Positioning system (GPS) and Global system mobile communication (GSM). This is more secured, reliable and low cost.

21. .NET based packed food vending machine.
Vending machine is a coin operated machine for selling merchandise. Vending machine provides various product such as snacks, beverages, water, tickets, and others product. Vending machine has many benefits such as no need human energy, flexible in time, and saving time.
Firstly vending machine benefit is not using any human energy on it. The vending machine is managed by operator. Machine manufacturers sell machines to the operator that decides which payment system. The labour work can be saving from having operators that's operated on it.
Secondly, vending machine is flexible in time that does can operate in 24 hours a day, seven days a week; each consuming between 2,500 to 4,400 kWh per year. The vending machine can be operated anytime although that was holiday or weekend.

22. .NET based paint mixing machine
Detection of desired colour and its automated generation can be very useful. Each colour has specific wavelength in visible spectrum ranging from 400nm-700nm. Based on its wavelength and other properties a machine could be developed that could utilize the principle of robotics to automatically mix the primary colors viz. red, blue and green (RGB) in required proportions to obtain the similar color as required. The automated

system can be further developed to spray-paint a given area with the help of robotic arm. This fully automated system will definitely have the following benefits. Improved quality: with an automated robotic spray painting arm, we can expect to create a more reliable, high quality end product. The robotic spray gun always remains at the proper distance away from target object hence provide accessibility in hard to reach areas with ease. Conserve paint: it can cut down the material cost as it is precise and does not overspray. Play-it-safe: avoid exposure to harmful toxins. Save energy: Robotic spray allow for more compact and precise painting which requires less physical effort

23. .NET based Wildlife Monitoring System using GSM.

Every living creature on this earth has equal importance in the ecosystem. But nowadays life of wild animals is in danger. Wild animals used to move freely in the forest or in the jungle. If any accident happens to them in the forest, physical injury or any disease may cause even death of animals in the forest. In such situations we cannot find out exact location of animal in such a large area. To avoid such problems in the finding exact geographical location of animal in the jungle, national park or in wildlife reserves, wildlife animal tracking system is used. This system utilizes technologies such as Global Positioning System and Global System for Mobile Communication.

24. Weather monitoring system using IoT with data backup

In this research, a foundation is set for an efficient solution for tracking the weather conditions of a specific location and making the information available anywhere in the world. The technological advance behind this is Internet of Things (IoT), which is an efficient and effective solution for linking the things to the web and to connect the entire world of things in a network. Here things could be like electronic gadgets, sensors, and automotive electronic devices. The system functions with tracking and monitoring environmental circumstances such as temperature, relative humidity, light intensity, pressure and quantity of rainfall with sensors and whenever these scores exceed a selected threshold limit for each an e-mail, an SMS alerts the appliance owner to take the required steps.

25. .NET based Automatic Conveyor for Industrial Automation

In this project we have to control the conveyor automatically by sensing the objects placed in the conveyor. Also, by using RPM sensor we have to control the speed the motor. The number of tags handled by the conveyor on the whole will be displayed simultaneously along with regulating the speed of conveyor. This project will save the power of motor operating the conveyor by regulating the conveyor automation, i.e. the conveyor actuates only when a tag is sensed.

26. Smart shopping trolley with automatic billing

Now a day's interest in shopping malls is widely increasing among people. People get daily necessities from shopping malls. There is an emerging demand for easy and quick payment of bills in shopping malls. Shoppers are frustrated at locating the items on the shopping list when shopping in shopping malls and when no assistance is available in shopping. To eliminate these problems, each product in the shopping mall will be provided with a RFID tag, to identify its type. Each shopping cart is implemented with a Product Identification Device (PID) that contains a microcontroller, an LCD, RFID reader and a ZIGBEE transmitter. RFID reader will read the purchasing product information on the shopping cart and the information about the product is displayed on LCD which is interfaced to the microcontroller. At the billing counter, the total bill will be transferred to PC at the counter side by using ZIGBEE module.

27. .NET based Electronic Vehicle Identification In The Intelligent City

Transportation is one of the major sectors contributing to the growth of any country's economy. Involvement of information technology increases both efficiency and safety of such an important sector. The objective of this thesis is to propose a single cost effective solution that merges many applications improving the efficiency and safety of the existing transportation infra-structure in Egypt. The most promising systems to do so, is the Electronic Vehicle Identification (EVI) system, we present the implementation of

two applications on that system: speed limitation and electronic toll collection. By comparing these technologies we choose active RFID to implement our system.

28. IOT Based Accident Prevention and Tracking System with data backup
Fatal Road accidents can be easily avoided by understanding the psychological state of drivers. Majority of the road accidents occur during driving due to the drowsiness state of vehicle drivers. This paper provides head movement that alerts the subject during the state of drowsiness. An embedded system based on psychological state of the subject by monitoring head movements is useful in warning drivers during initial sleep cycle phase of drowsiness. The physiological sleep state analysis of the subject can be determined by monitoring head movement using an accelerometer. If he/she falls asleep, then an alarm will ring to wake him/her up. An Internet of Things (IOT) enabled sensors are used to transmit the entire data collected by sensors over a smart grid network for quick response team to take actions under emergency conditions.
29. RFID based Airport Luggage Security System.
In the proposed system we are going to use latest technology RFID (Radio Frequency Identification). The RFID technology is used everywhere in which the main factor is Uniqueness. The unique property is provided by creating unique number for every RFID Tag. In this Tag we can store certain amount of data which are used in identification. The data in the Tags are read via RFID reader. In our proposed system we are going to implement passive RFID for luggage identification. In every luggage we are going to give a RFID Tag with the passengers detail in it. The main aim of this paper is that to trace and check the luggage at different security stages at the airports and inform the passenger about the status of his/her luggage every time the luggage passes each stage. Every luggage attached with an RFID card with unique number. That number is given to the passenger at the entrance of the airport. If this RFID tag make in communication with the RFID reader at the each stage, the data passes to the PC through the RS 232 cable and checks for any prohibited items like metals by using metal sensor contained in the luggage. This checking of metals in the luggage was done by the metal sensor. If the metal detected, the system gives alarm and inform the user through the message using GSM modem and the same information was passed to the database.
30. IoT based Real time Automation of Irrigation with application interface
India is mainly an agricultural country. Agriculture is the most important occupation for the most of the Indian families. It plays vital role in the development of agricultural country. In India, agriculture contributes about 16% of total GDP and 10% of total exports. Water is main resource for Agriculture. Irrigation is one method to supply water but in some cases there will be lot of water wastage. So, in this regard to save water and time we have proposed project titled automatic irrigation system using IoT. In this proposed system we are using various sensors like temperature, humidity, soil moisture sensors which senses the various parameters of the soil and based on soil moisture value land gets automatically irrigated by ON/OFF of the motor. These sensed parameters and motor status will be displayed on user android application
31. .NET based Detection of Traffic Density & Signal Adjustment using IR
The project is a traffic signal controller system that reacts to the density of traffic. The time required on changing signals adjusts automatically depending on the density of traffic. Well traffic problems contribute a major problem in many cities and also increase fuel consumption as well as pollution. Traffic signals operating on fixed signal timing delays do not adjust to the changing traffic density. When the traffic density increases more than a limit at one particular side, it needs longer green light duration to ease traffic flow. Our system uses a microcontroller of the Atmega family that is interfaced with IR sensors. These IR sensors are used for line of sight object detection using which the system gets an input of the traffic density. Traffic density is measured as "low, medium and high". Based on this density reading the system adjusts and varies the traffic signal duration for that particular way. This system can also be further enhanced by using multiple such systems across the city and synchronizing them

through a network.

32.	**.NET based Detection of Air Pollution in Vehicles .NET based**

Air pollution is not only harmful to the environment but to all the other living beings on earth. Seventy-five percent of the total carbon monoxide emissions are caused due to automobiles. In urban areas, automobile emissions contribute to 50-90% of the total air pollution. Every vehicle will have emission. It is not possible to avoid emissions completely but it can be monitored and controlled by using a pollution detection system. The standard levels of emission are set by the government as per Bharat Stage norms. Due to the improper maintenance of vehicles the emission level of the vehicle increases. When the emission levels of the vehicle increases, vehicle owner will be informed about the harmful levels of pollution. If no action is taken by the owner then this information along with the location of the vehicle will be given to pollution regulatory body. This information will be helpful to identify the polluting vehicles in an area. Hence, necessary action can be taken by the authority against the vehicle owner to control pollution. The real time data of the polluting vehicle can be given to the pollution regulatory body. The synchronization and execution of the entire process is monitored and controlled by using microcontroller.

33.	**.NET based Monitoring & Detection of Manhole using IoT**

Nowadays, accidents due to broken and missing manhole covers are quite frequent. Manholes are not monitored properly in developing countries. These accidents can lead to serious injuries and also death. Hence, here we propose a system to overcome this problem. We have included an array of sensors for complete monitoring of the manhole cover so that such accidents can be prevented. This project includes a gas cover to monitor the gas emitted from the sewage systems so that toxicity can be monitored, the internal temperature is also monitored if a check for a change in the temperature as the property of manhole change with temperature which could need to crack formation, a tilt sensor is introduced to indicate whether the manhole can tilt. Also, a float sensor is used to indicate when the water level goes beyond a certain level, in case of any alert due to any of the parameters we send an SMS to an authority number as well as on the IOT website. Also, all the parameters are continuously updated on the website.

34.	**IoT based Smart dustbin with application interface**

In the recent years, there was a rapid growth in population which leads to more waste disposal. So, a proper waste management system is necessary to avoid spreading some deadly diseases. But due to lack of resources, ineffective groundwork, some waste is not collected which poses serious health hazard to the surrounding environment. The government of India announced smart cities and the key to smart cities is cleanliness. In support of clean city we design a dustbin which can interact with the cloud (free cloud for demonstration) and push its filling percent at regular intervals (say every 1 hour or its status set to full). If the status of the dustbin is filled, a message is pushed to the municipal person who is responsible to empty the bin. The filling percent monitored by weight sensor and ultrasonic sensor continuously. The status of the bin set to full when either the threshold weight reached (may be some space available in the bin) or it is filled up to a threshold level (may be the weight less than the threshold) and by using analysis of statistics to estimate area wise quantity of waste which in turn used to rank areas which helpful in cities clean.

35.	**Smart colour based product sorting machine**

Sorting of products is a very difficult industrial process. Continuous manual sorting creates consistency issues. This paper describes a working prototype designed for automatic sorting of objects based on the colour. TCS230 sensor was used to detect the colour of the product and the PIC16F628A microcontroller was used to control the overall process. The identification of the colour is based on the frequency analysis of the output of TCS230 sensor. Two conveyor belts were used, each controlled by separate DC motors. The first belt is for placing the product to be analyzed by the colour sensor, and the second belt is for moving the container, having separated compartments, in order to

separate the products. The experimental results promise that the prototype will fulfil the needs for higher production and precise quality in the field of automation.

36. RFID Based Library Management System Project with data backup

Radio Frequency Identification (RFID) is a new generation of Auto Identification and Data collection technology which helps to automate business processes and allows identification of large number of tagged objects like book, using radio waves. RFID based Library Management system (LMS) would allow fast transaction flow for the library and will prove immediate and long term benefits to library in traceability and security. The proposed system is based onUH F RFID readers, supported with antennas at gate and transaction sections, and library cards containing RFID-transponders which are able to electronically store information that can be read / written even without the physical contact with the help of radio medium. This paper presents the experiments conducted to set up RFID based LMS.