**Project Brief Documentation**

**Project Title :-** RFID Based Library Management System

**Team Size :-** 5

**Brief Introduction:-**

* The main goal of project is to make library secure , smart and efficient with the help of RFID which we can achieve expected work.
* In this project , we are performing all library tasks with the help of RFID components.
* It can make all library tasks automatically and make library independent from librarian.
* It proves very useful system for library and their users.
* It makes system portable.

**Achievements:-**

* We made an application for RFID System , by using the RFID components and with an application the librarian can manage library

**Required Components:-**

* Nodemcu (esp8266) Microcontroller
* RFID Reader
* RFID Tags
* RFID Gate

**REQUIRED COMPONENTS**

**For RFID Based Library Management System**

**RFID Gate :**

**Usage :**

For security purpose, means if student take book out of library without issuing book , it gives alert.

**Approx.** **price (per pair) :** INR 1,00,000

**Required pair :** 1

**Total Approx. price :** 1\*1,00,0000 = INR 1,00,000

**UHF RFID Reader :**

**Usage :**

For scan UHF RFID tags.

**Approx.** **price (per piece) :** INR25,000

**Required piece :** 1

**Total Approx. price :** 1\*25,000 = INR 25,000

**UHF RFID Tags :**

**Usage :**

For Uniquely identify every item (Book and Student’s Id-card ).

**Approx.** **price (per piece) :** INR 10

**Required piece :** 200 (100 for Books and 100 for Student’s Id-card)

**Total Approx. price :** 200\*10 = INR 2,000

**Misc. :**

INR 10,000

**Total Approx. price :** 1,00,00 + 25000 + 2000 + 10000 = INR 1,37,000