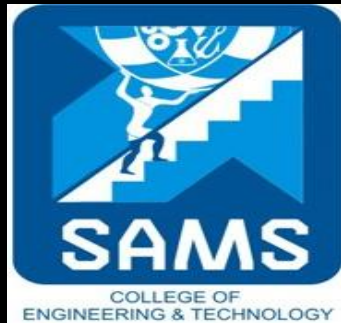


# ***RFID***

## ***for Resource Management***



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# **Modules :LIBRARY MANAGEMENT USING RFID READER**

**1. INTRODUCTION: RADIO FREQUENCY IDENTIFICATION**

**2. SYSTEM ANALYSIS:**  
Feasibility Study  
Existing System  
Proposed System  
Requirement Analysis

**3. FLOW DIAGRAM**

**4. SYSTEM ARCHITECTURE**  
System Architecture  
System Implementation

**5. SOFTWARE SPECIFICATION**

**6.CONCLUSION**

# INTRODUCTION :

- ***RFID* : RADIO FREQUENCY IDENTIFICATION**
- It has a purpose of identification and tracking using radio waves
- There two types of RFID :Active RFID And Passive RFID

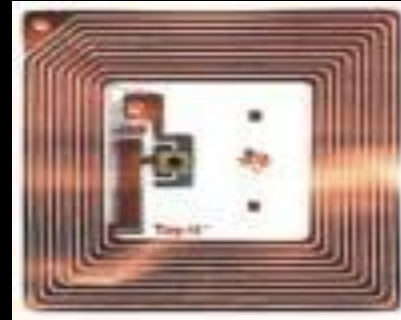
# INTRODUCTION : *RFID* : RADIO FREQUENCY IDENTIFICATION

- RFID is a technology for identification using radio waves. Its main parts are: an RFID identifier (a tag, also called a responder), an RFID reader and a data system for handling the information. RFID tags, which include an antenna and a chip for information storage, are commonly installed on targets that need to be identified

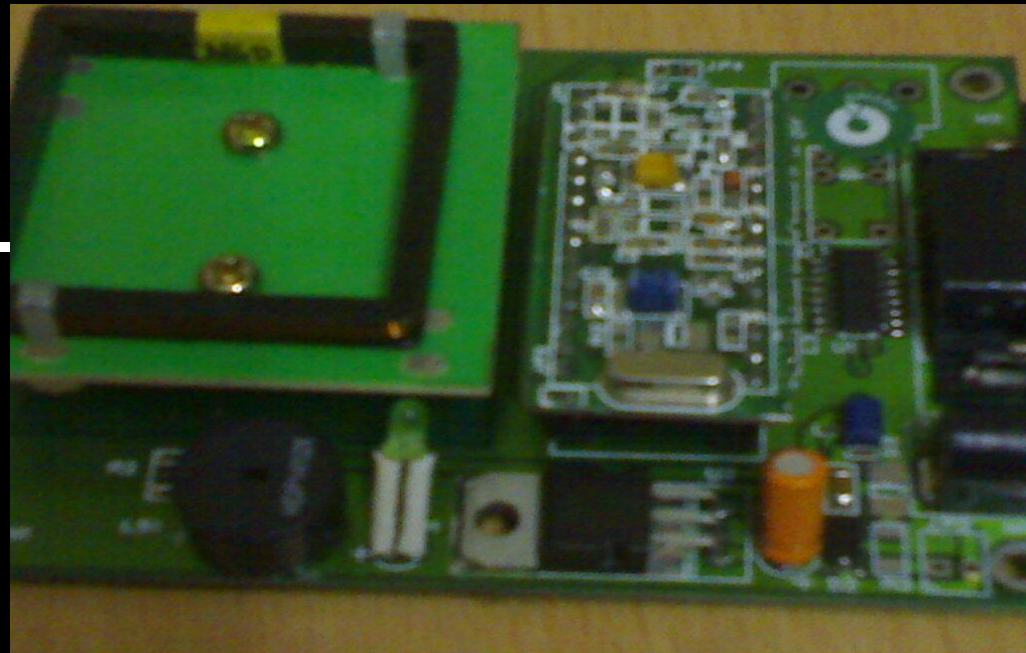
# RFID TECHNOLOGY



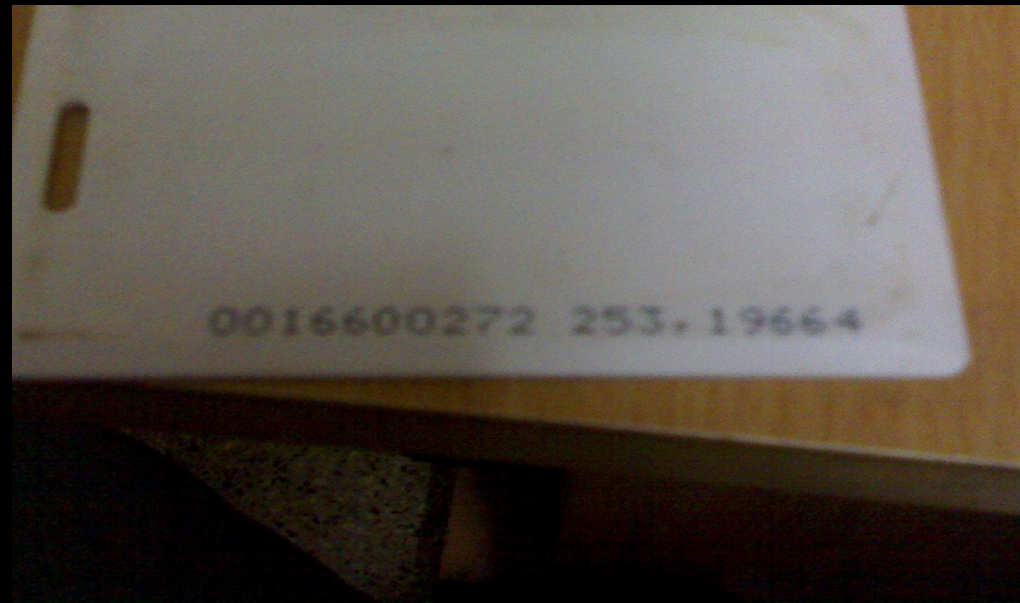
# DIFFERENT RFID CHIP



**RFID READER**



**RFID TAG**



# SYSTEM ANALYSIS:

- Feasibility Study
- Existing System
- Proposed System
- Requirement Analysis



# FEASIBILITY STUDY:

The feasibility of the project is analyzed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates..

Three key considerations involved in the feasibility analysis are

- **ECONOMICAL FEASIBILITY**
- **TECHNICAL FEASIBILITY**
- **SOCIAL FEASIBILITY**

# SYSTEM ANALYSIS:

## **2.1.1 Economical Feasibility:**

This study is carried out to check the economic impact that the system will have on the organization.

## **2.1.2 Technical Feasibility:**

This Any system developed must not have a high demand on the available technical resources.

## **2.1.3 Social Feasibility:**

The aspect of study is to check the level of acceptance of the system by the user.

# SYSTEM ANALYSIS:

## **Existing System**

The students and staffs are taking books by searching their related title in every rack from a library. This may be a complex term if there are so many racks available in a library..

## **Proposed System**

In the proposed system, the students and staffs can take books using their mobile phone and a RFID tag. The admin can add or update the new book entries through the web-site.

# REQUIREMENT ANALYSIS

## Hardware Requirements

Processor	:	PENTIUM4
Mother board	:	Intel 815 chipset
Ram	:	512 MB
Hard disk drive	:	40 GB
Monitor	:	SAMSUNG 20" color
Keyboard	:	Logitech 110 keys
Mouse	:	Logitech scroll

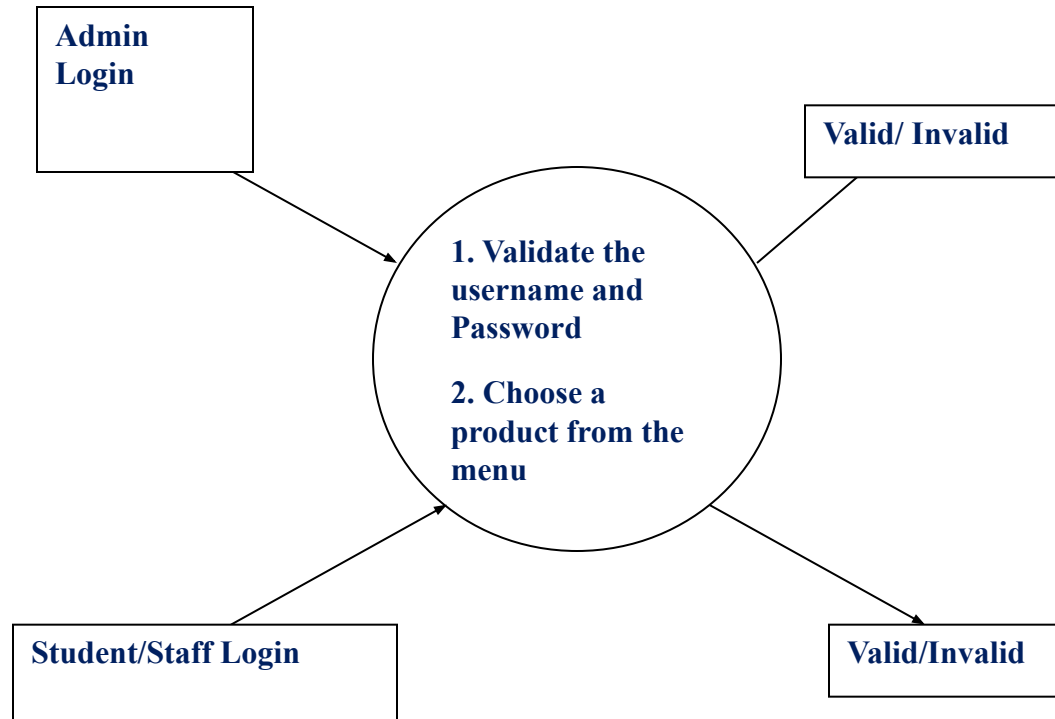
## Software Requirements

Development kit	:	JDK 1.5
Operating System:		windows XP
Tool	:	Sun Java Wireless Toolkit
Back End	:	Ms-Access

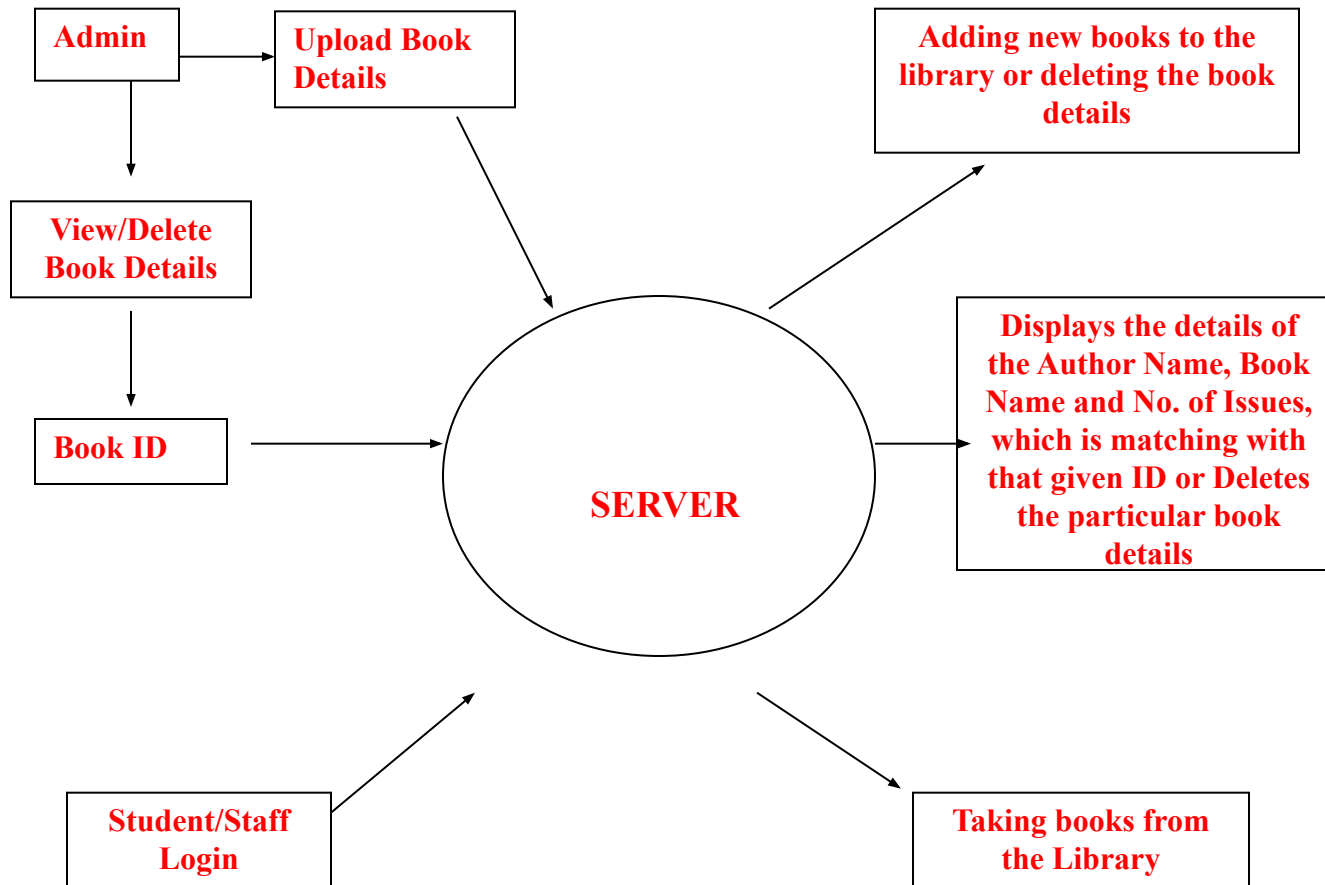
# Flow diagrams :

- In the dataflow diagram ,is used explain about the authentication process has been carrying out .

# Flow diagrams :level 0



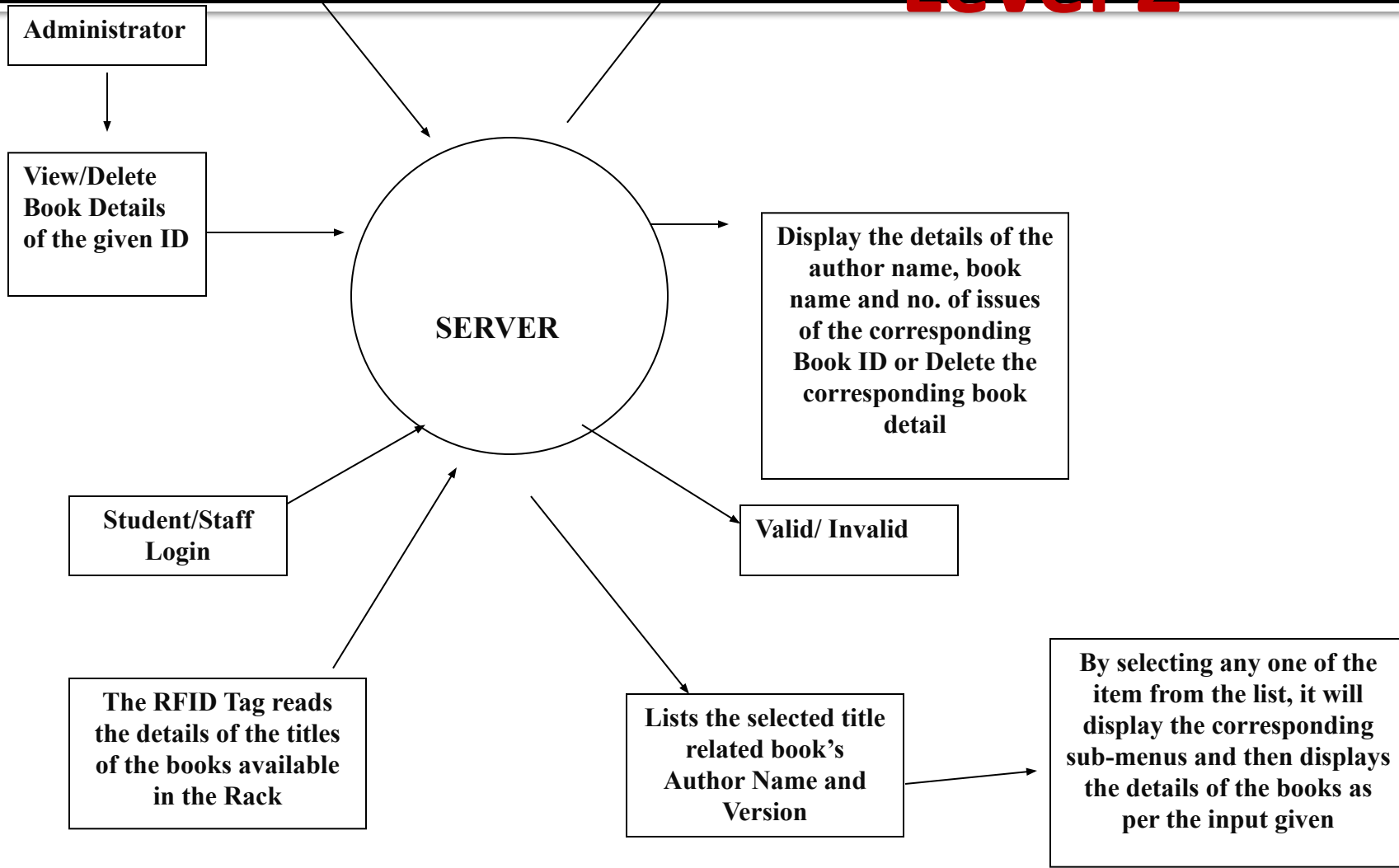
# Flow diagrams :level 1



**Upload/Delete the book details**

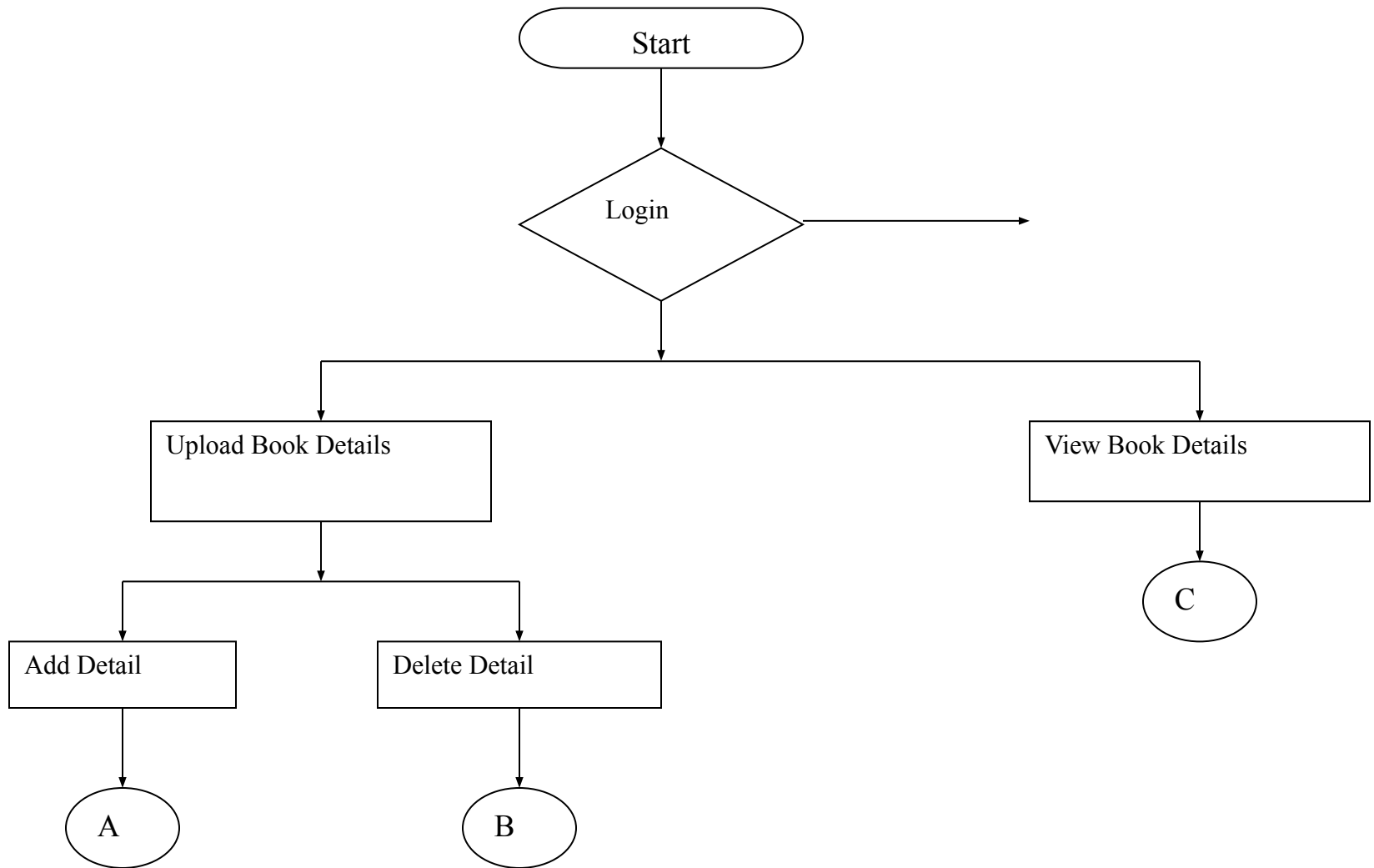
**Upload the new entries into the library account. The book details can also be deleted by giving the book id**

# Level 2

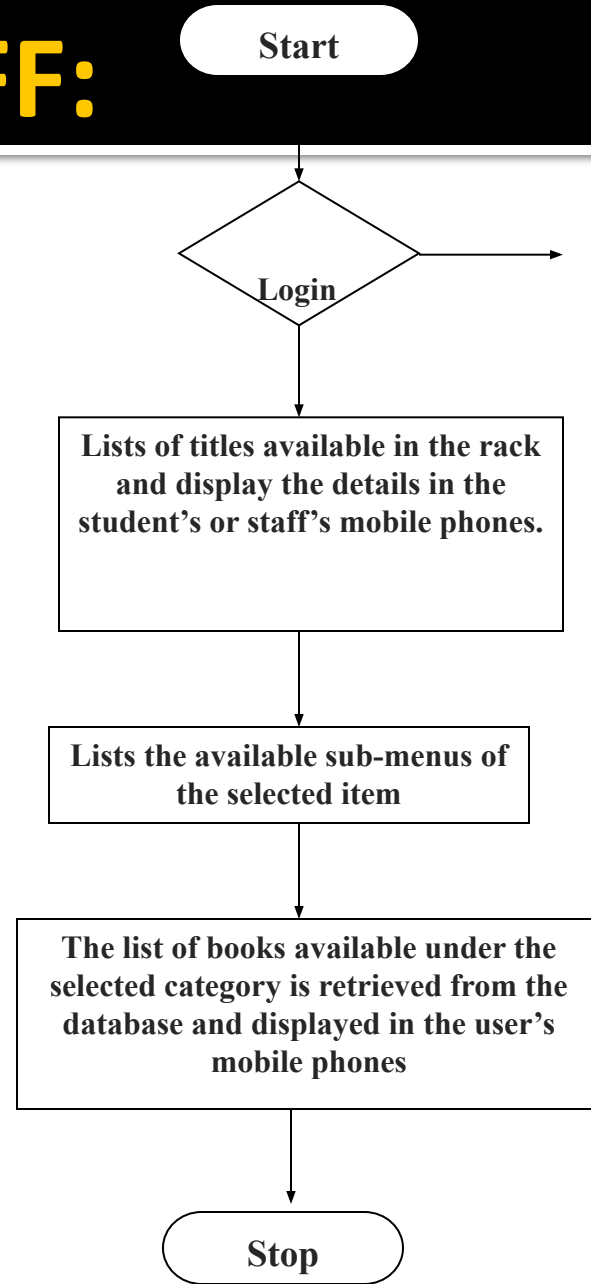




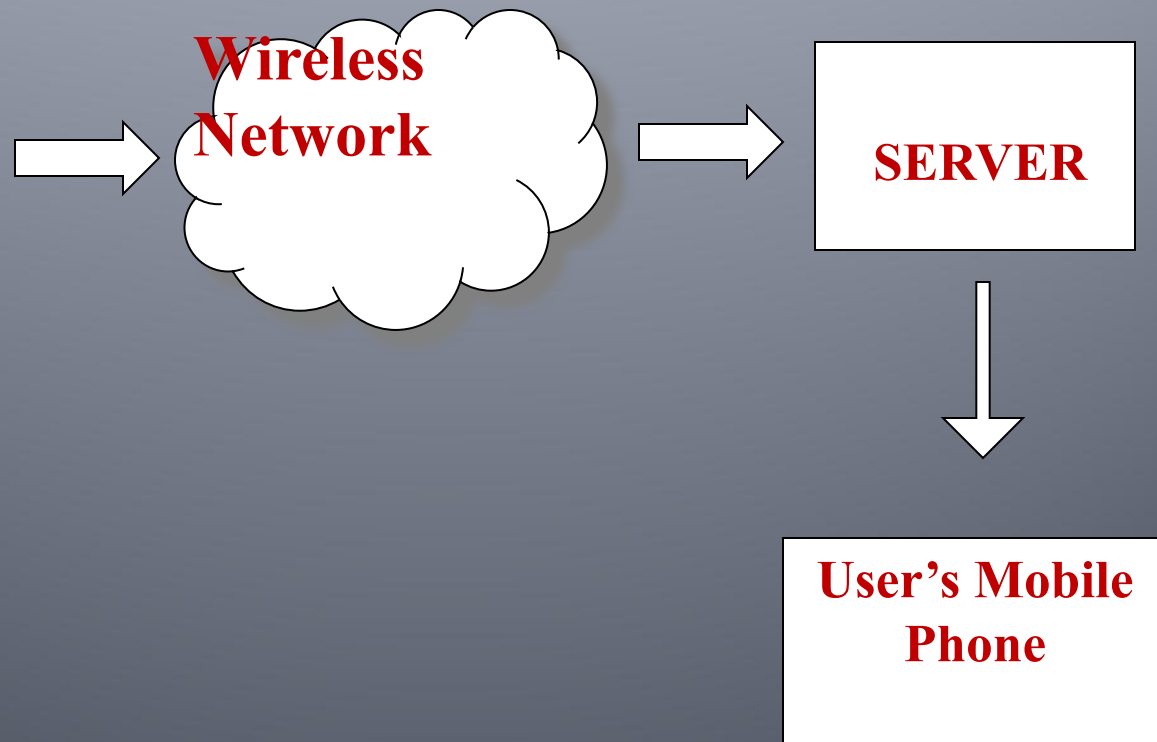
# Authentication level of the ADMINISTRATOR:



# AUTHENTICATION LEVEL OF THE STUDENT AND STAFF:



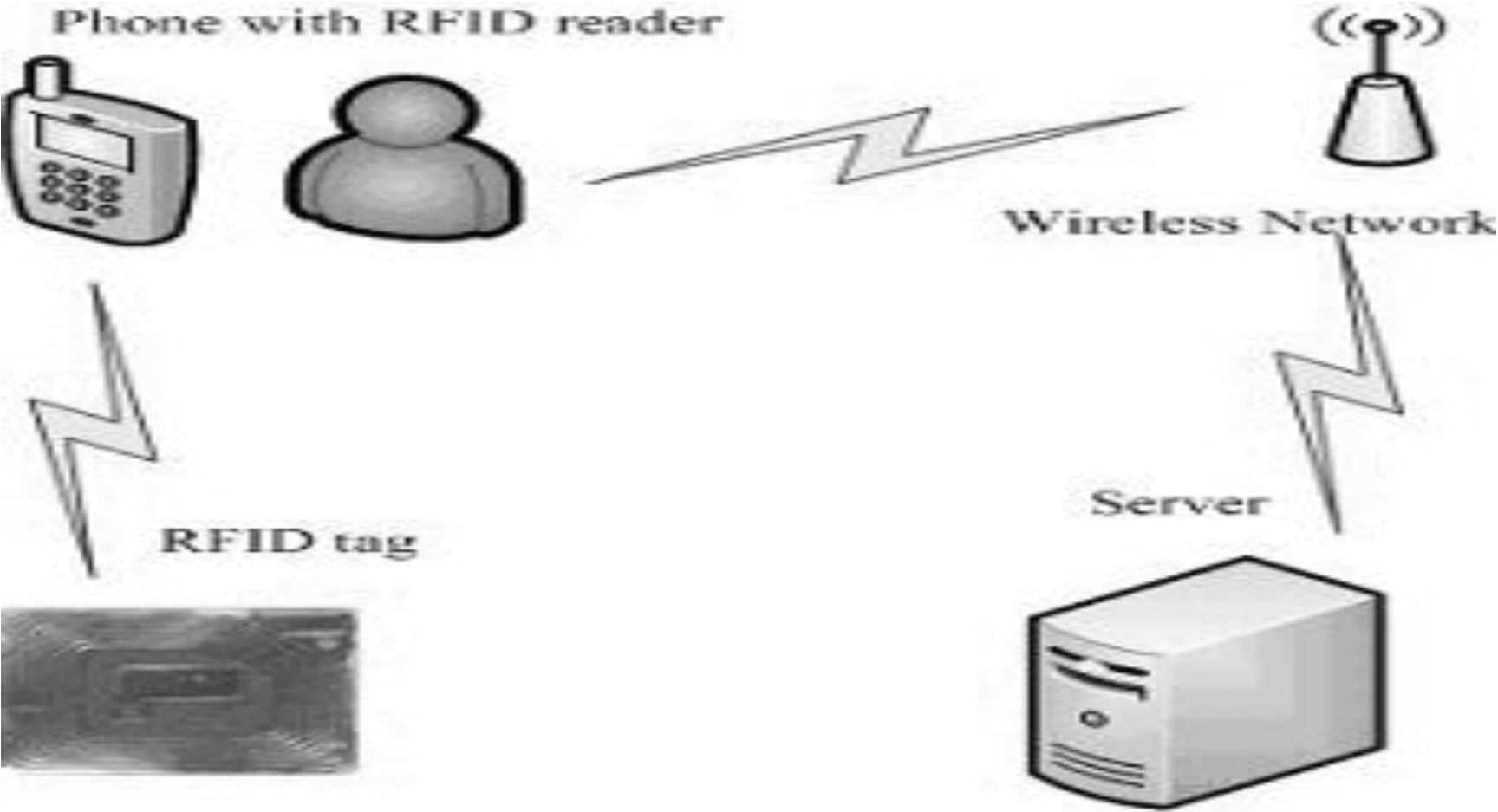
# SYSTEM ARCHITECTURE



# SYSTEM ARCHITECTURE

- This scenario explain about how the rfid reader works in wireless network
- In the server side, the application will use a web server and a database
- A client side application is developed for the phone.

# SYSTEM ARCHITECTURE



# SYSTEM ARCHITECTURE

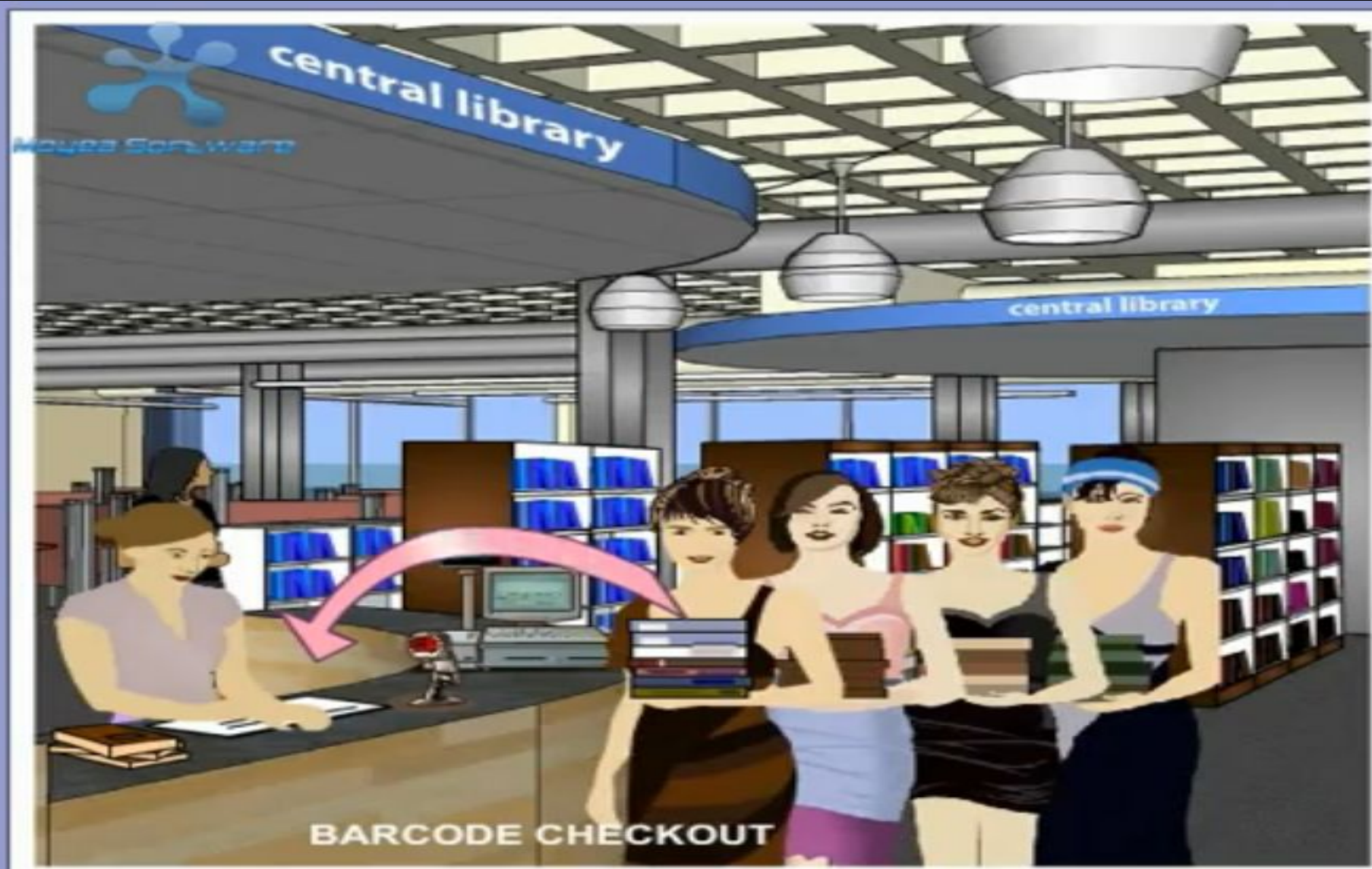
After entering all the details, the details are transferred into a RFID reader. And this RFID reader is fixed in the Racks available in the library



# SOFTWARE SPECIFICATION

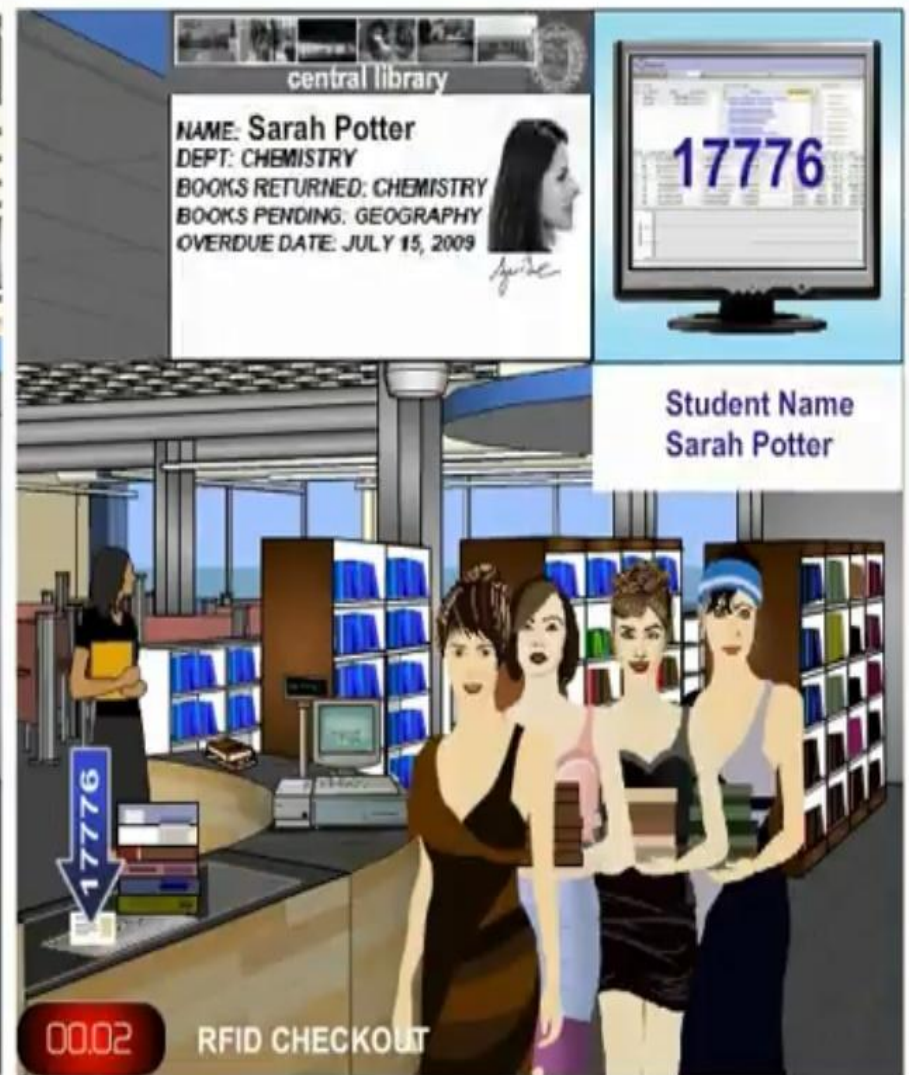
- **Software Used: Core Java and jdk 1.5 or Later**
- **“Java:** A simple, object-oriented, distributed, interpreted, robust, secure, architecture neutral, portable, high performance, multithreaded and dynamic language”.
- **Java:**
  - A language developed by Sun Microsystems
  - A general-purpose language
  - High-level language
  - Developed initially for consumer devices
  - Popular platform to develop enterprise applications

# COMPLETE SCENARIO OF LIBRARY MANAGEMENT SYSTEM USING RFID





# COMPLETE SCENARIO OF LIBRARY MANAGEMENT SYSTEM USING RFID



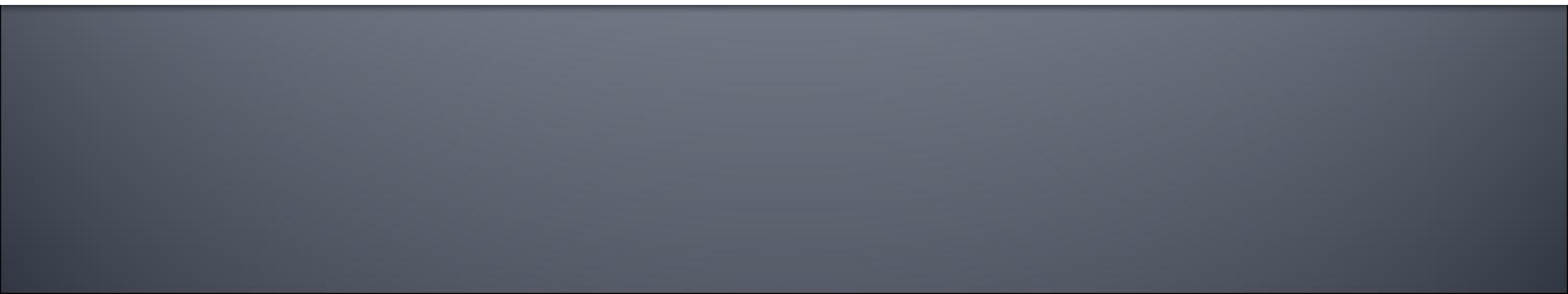
# COMPLETE SCENARIO OF LIBRARY MANAGEMENT SYSTEM USING RFID



# COMPLETE SCENARIO OF LIBRARY MANAGEMENT SYSTEM USING RFID



# SCREEN SHOTS



Test

Welcome to the Tourist/FD Application

Choose your interest from the List

Hotels

Restaurants

Parks

KLOCC

Shopping

Test

Test

Test

Hotels

Get out over the city center as you swim in the 180m Kuala Lumpur Hotel's 400 foot freestyle pool, with a tropical sun deck. Indulge in a spa treatment in the luxurious spa and sample award-winning Asian fusion cuisine at Garden restaurant. Enjoy panoramic views from the Executive Lounge.

Address: 3 Jalan Stesen Sentral, Kuala Lumpur, Malaysia 50470

Tel: 60-3-2284 2284 Fax: ... 3-2284 2288

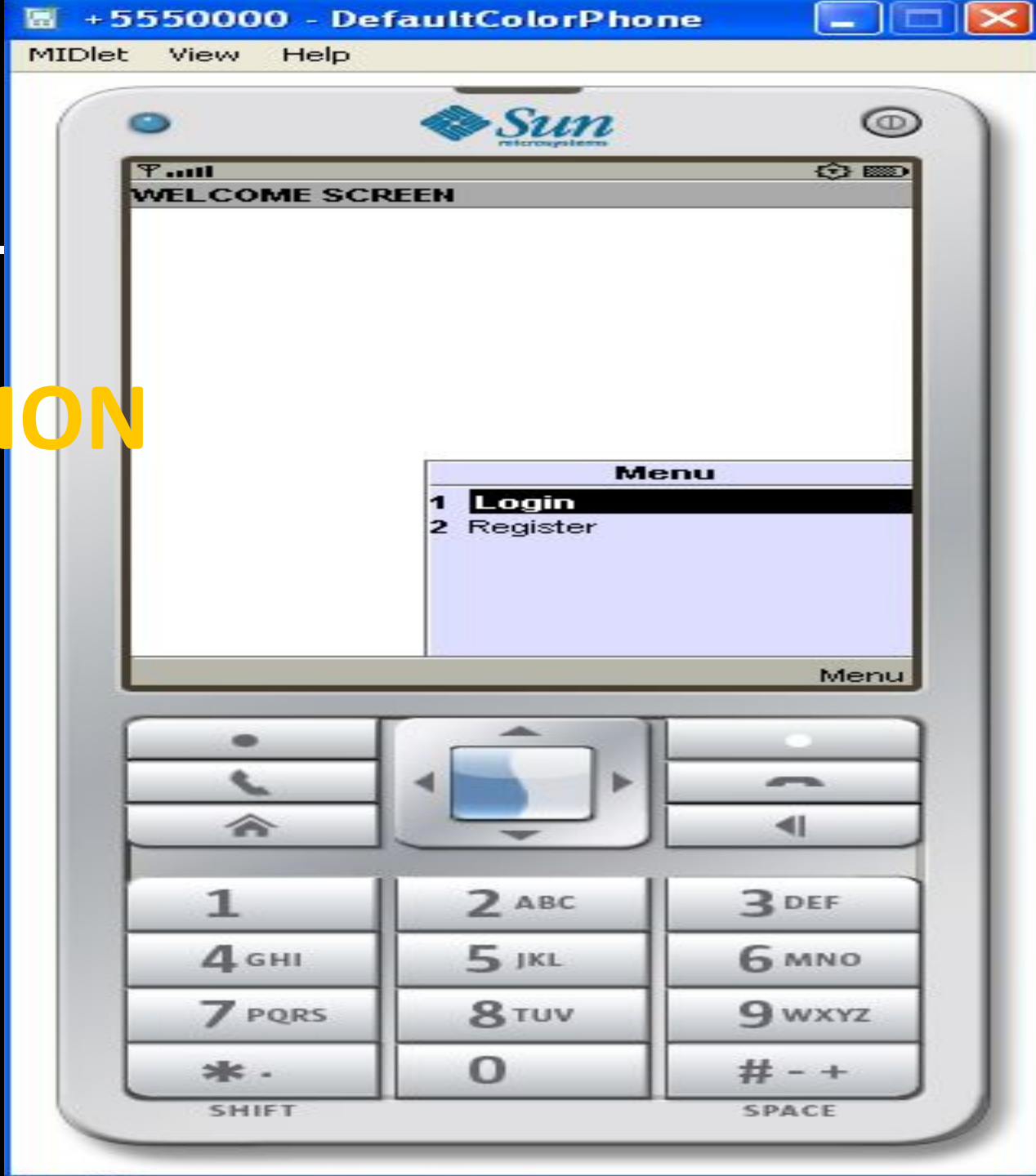


Test

# THE SELECT THE APPLICATION



# THE SELECTION

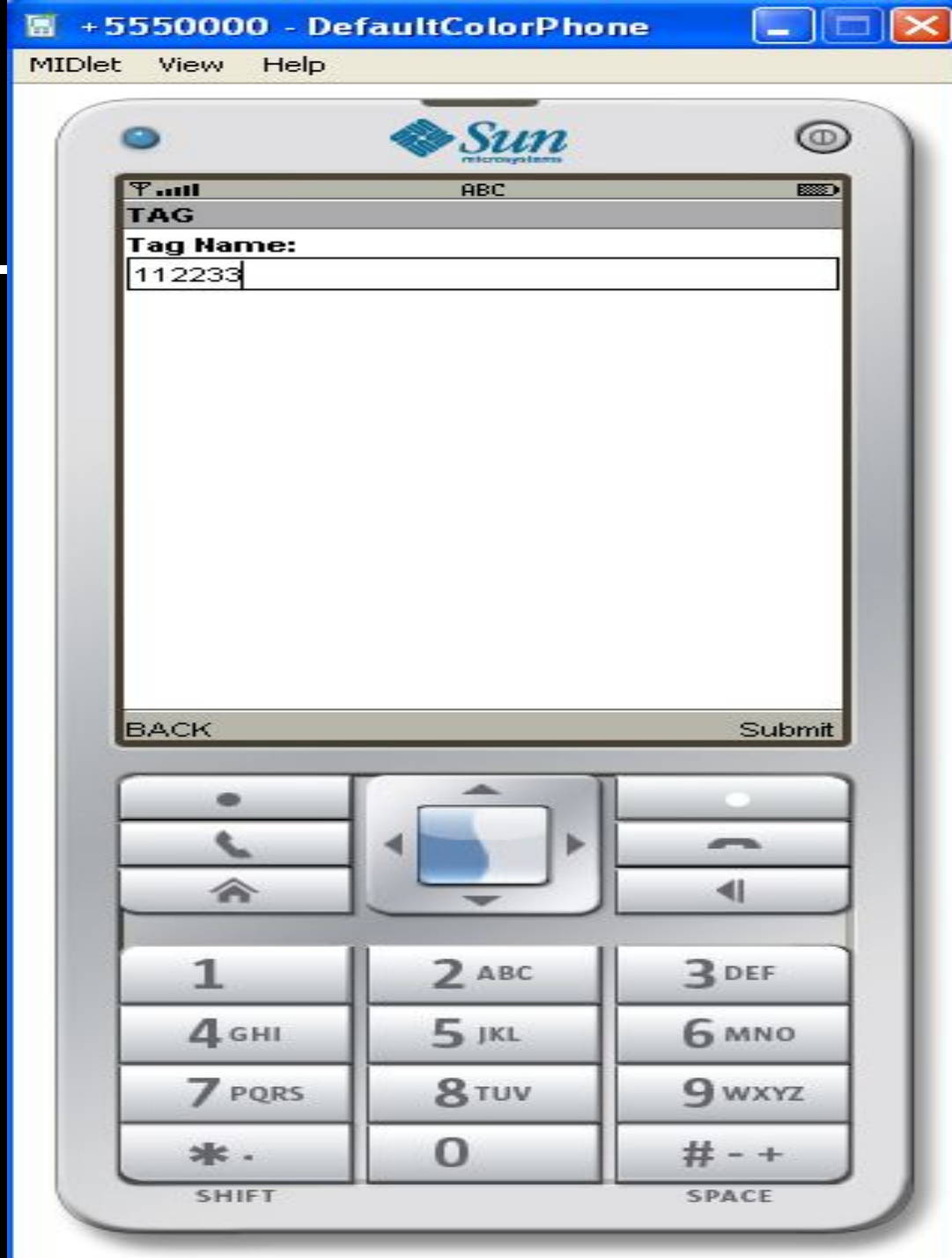


# THE AUTHENTICATION LEVEL OF THE USER





**ENTER THE TAG  
NAME**



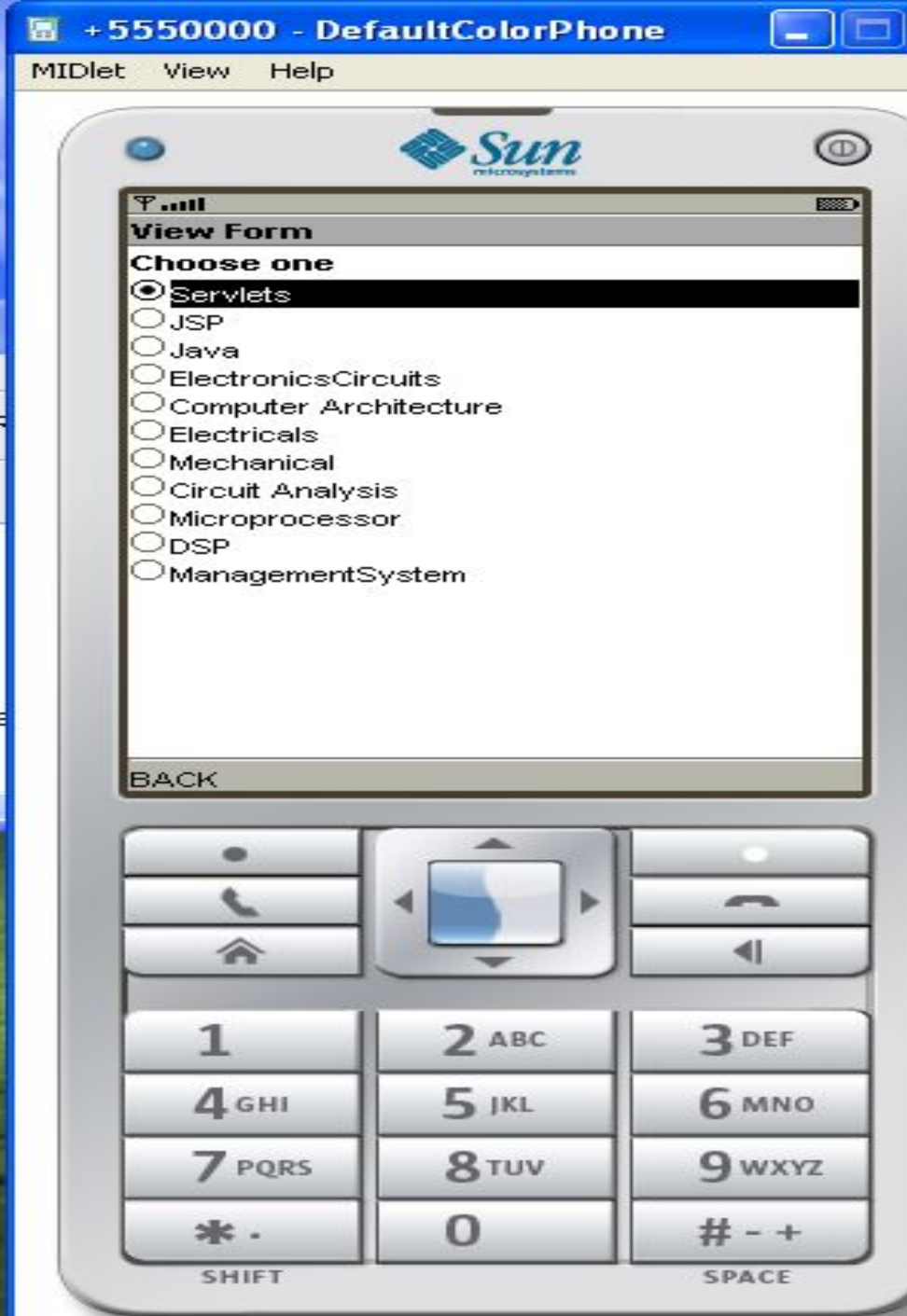
Choose the  
type



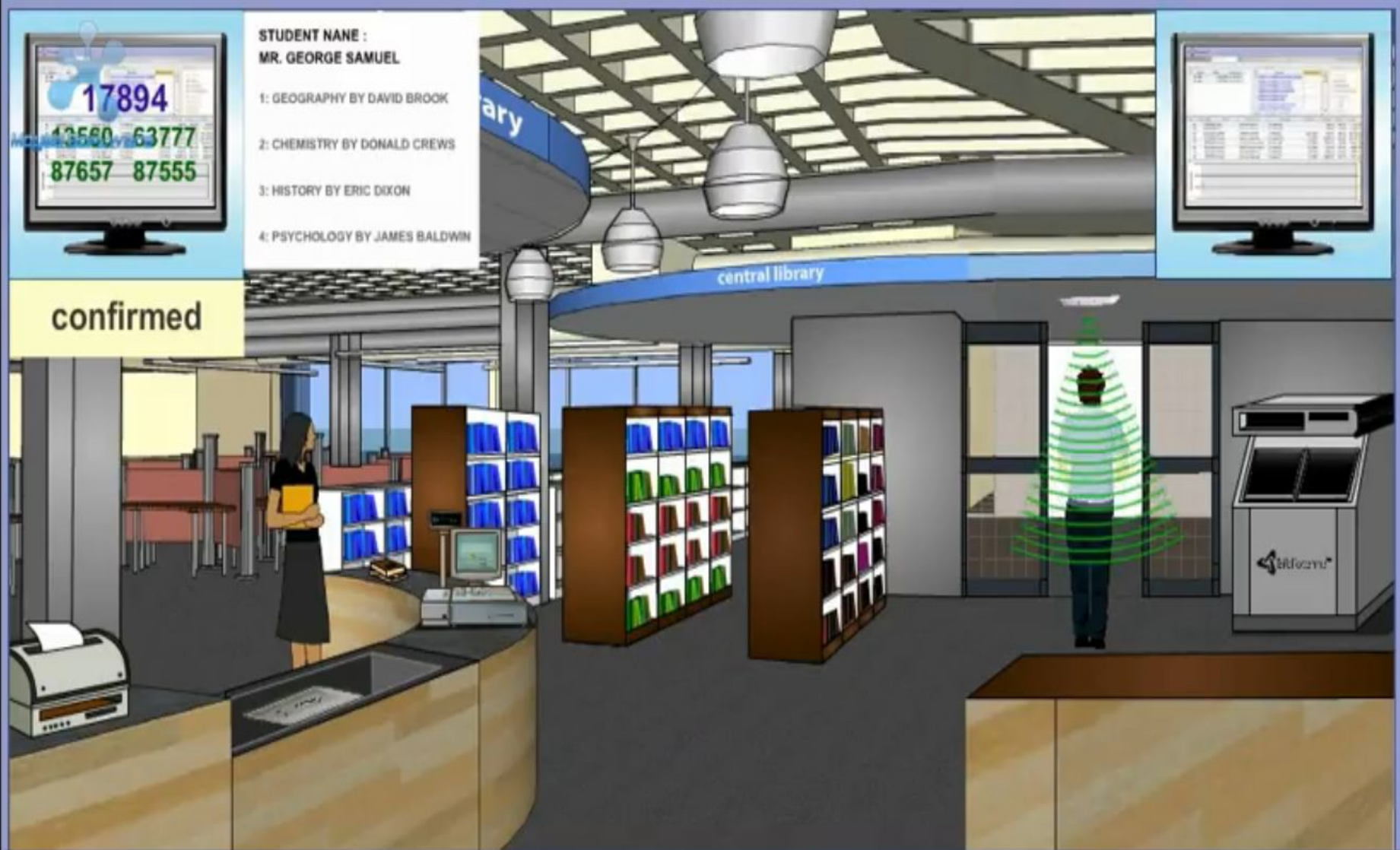
Select the  
option which  
are available:



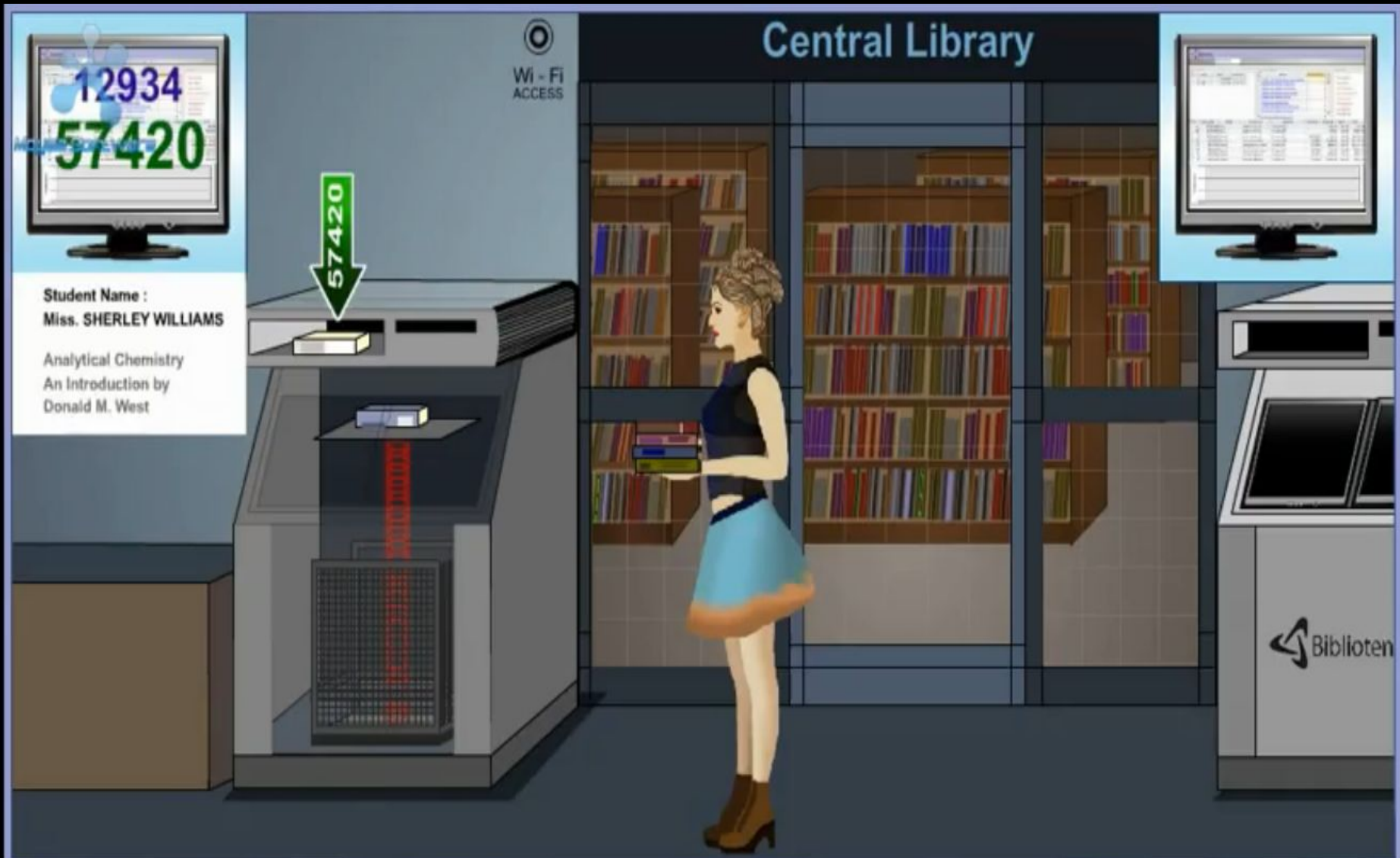
Choose the subject



# Verifyinf if the books are properly issued before the exit



# Book return process



# Conclusion

- The RFID technology brings needed functions for developing and building a modern identification system for decreasing mistakes in healthcare. With these technologies, controlling different materials and records can be improved
- The system presented was based on a combination of wireless, J2ME and RFID technology