**Project**: "Library Automation Using AVR microcontroller"

/\*Project can be updated to work with RFID technology as for future reference\*/

**Description**:

In this project we automate the process of inserting new books in the library,

adding new members, fetching information about existing members,

tradition of borrow and return for books from/to library, maintain the

record about the person who has taken the book or even returned it.

**TOOLS**:

* Software:

1. Embedded C, along with Data structures i.e. linked lists and arrays.
2. Eclipse IDE
3. GCC compiler

* Hardware:

1. ATmega32 - AVR Microcontrollers
2. LCD
3. Switches to act as if it were keypad.

**More Details:**

* printf function simulation: LCD is used to Display any content that helps the user understands what's going on behind the screen
* scanf function simulation: Keypad is used as an input to the system
* AVR microcontroller is used to interface with the previous two to make the system alive