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III. Software Requirement Specification

In this project, we focus to create a well performance system for library to manage book and prevent theft by FRID and be used by librarian.

So, the whole system must have 2 main function :

* Manage book
* Security check

|  |  |  |
| --- | --- | --- |
| Main function | Function list | Description |
| Manage book | Manage book | Manage book by ID , title , state , … to define and arrange book |
| Manage user | Manage user user(student) by ID(student) , name , book own … to define and do action |
| Check in Information | All info of book and user should be save, check in and check out easily |
|  |  |
| Security check | Security scanner | User microchip that contain state and some info of book. A scanner will check it’s legal or not |
|  |  |
|  |  |

Base on this situation, we know that our system have to meet some requirement :

1. User Requirement Specification
   1. Hardware Requirement

* Easy to use, assembly and maintain.
* Actives when not connected with software(incident or network failures)
* intense activity for theft prevent and increase performance
* Powered by battery
  1. Software Requirement
* Interface design for manager(librarian)
* Simple to improve reference speed
* Software connect to Hardware by wireless, Bluetooth or cable is available
* Database with large size in case of a small library can serve 20-50 customer
  1. Firmware Requirement