**Processes**

1. Students inquire about registration
2. Librarian asks for NIC, Paid Receipt.
3. Librarian Generate Unique code and print.
4. Give Print to student
5. Student enter code in the site registration
6. Student complete registration, code destroyed.
7. Librarian gets notification to print a new library card.
8. Students go to the librarian for the library card.
9. Student sign into the system.
10. Student search for book, If
    1. Available – Student take book/item to librarian.
       1. Librarian Asks for card.
       2. Scan card, Check for book/item limit. If
          1. Full – Ask student to return previous book/item (s)
          2. Not Full – Librarian Issue book/item, record sent to server.
    2. Not Available – Student request book/item, librarian gets a notification.
       1. Librarian check for issued book/item. If duration
          1. Expired – Notify student having book to return book/item, send message to requester.
          2. Not Expired – Notify Student that the book/item will be available in No of days.
11. Student request extend of book/item duration, if another student has
    1. Requested book/item – Request is denied; the member is notified that another member wants the book/item.
    2. If Not requested – Grants the request, notify member that only 1 extend can be done for this book/item.
12. Student Lost Card, request card from librarian. Librarian asks for NIC, Charge Rs.300 for card.
    1. Librarian Print New Card.
13. Librarian notify supplier about book/item order, If book/item
    1. Send Order to library

**Features of Each Entities**

* Sign In
  + Forgot Password
  + Sign In
* Guest
  + View Books
  + Search Books
* Books
  + Add, View, Remove, Modify Books
* Members
  + Add, Remove, View, Modify Member
  + Request Books
  + Request Extend of Book period
* Librarian
  + Issue Books
  + Charge Penalty
  + Extend Book period
  + Book Requests
  + Issue Card
  + Scan Card
  + View Issued books
  + View Books
  + Submit Order Request
* Items
  + Add, View, Remove, Modify Items
* Suppler
  + Add, View, Remove, Modify Supplier
* Admin
  + All Features
  + View Login Details
  + Approve Order Request
  + Add, View, Remove, Modify Librarians
  + Change Password, Change Details Admin

**Programming Languages**

**Database –** MySQL

**Electronics** – C#

**Full Project** – PHP, JS, HTML+CSS