**USER REQUIREMENTS OF LIBRARY MANAGEMENT SYSTEM PROJECT**

**Functional Requirements**

* Fun-01 Only authentic user must have the access to the system.
* Fun-02 Only the user must be able to provide the information related to the library.
* User must be able to:
  + Fun-03 Provide the information regarding books.
  + Fun-04 Search for the required books from database.
  + Fun-05 Add new book to the database.
  + Fun-06 Update the number of books in database.
  + Fun-07 Enter data of issued book in Database.
  + Fun-08 Information of returned books.
* User must have the knowledge about the no of copies of a book.
* Same Id’s for 2 or more books shall not be allowed.
* User must check if the book is available or not before issuing.
* User must enter issue and return date in database.
* The user must know the number of shelves in the library.

**Non-Functional Requirements**

* **Performance**

Non-01 The Server would be able to perform desired tasks in reasonable unit of time.

* **Reliability**

Non-02 The Server would perform desired tasks as expected. The system does its work with more accuracy like user registration to the system, user validation and authorization, book search and issue operation, return status , and updating the database by synchronizing between database and application.

* **Security**

Non-03 The system would provide access to only legitimate users. It will be secure on network and only authorized person can use it.

* **Scalability**

Non-04 The proposed system would be scalable to support extended number of users.

* **Ease of Use**

Non-05 The proposed system would be user-friendly and would provide Graphical User Interface (GUI).

* **Accessibility**

Non-06 The proposed system would be GUI-based desktop application installed on computing root node (server) running the application.

* **Maintainability**

Non-07 The proposed system would be easy to maintain and extend. Minor modification to the system would not cause harm to the running application.