***SOFWARE REQUIREMENT***

***ENGINEERING.***

*GROUPS MEMBERS*

*1.AFAQ-UR-REHMAN (20P-0034).*

*2.HASNAT AHMAD (20P-0079).*

*3.WAJIHA MEHBOOB (20-P0476).*

***ASSIGNMENT 2.***

***VISON AND SCOPE DOCUMENT.***

***BUSINESS REQUIREMENTS:***

***1.1. BACKGROUND:***

Fast library management system is a manual system which is used by the students to borrow, view and return the issued books. The student can check the availability of books if books are available, student can borrow books otherwise can request for required book. Then librarian can check student’s id and can allow member to check the books, update the issued books to members and update the library status. This manual system takes much more time in updating the status of books issued to student as well as status of library management system.

***1.2. BUSINESS OBJECTIVES:***

***1.***Search column for searching of available books.

2.Registration of new students.

3.Student record update.

4.Update book record.

5.Request book.

6.Update fine record.

***1.3. VISON STATEMENT:***

For students who need to borrow books, the library management system will provide access of books to members. This system will store the data of existing books, the arrival of new books and the status of members. This system will not only save time by 40% but it will also store data electronically. Unlike the manual system , the library management system will not have to update the data manually but will update it electronically.

***1.4. BUSINESS RISK:***

1. The librarian might communicate with other faculty for finding out latest syllabus.

2. The librarian might communicate with publishers for collection of books covering all the aspects of future needs.

3.The University might hire competitive staff or developed existing staff skills by providing different amount of training.

***1.5. BUSINESS ASSUMPTIONS AND DEPEDENCIES:***

The current file storage system is the basis of design of the new system. When the new system is in place, the paper form is a secondary option . Training time is necessary for the librarian to completely understand the working of the system. For the library management system the internet is required. Inside the university, the internet is provided freely, but outside the students will have to manage their own.

***1.6. SUCCESS METRICS:***

1. 60% manual work is reduced by using library management system.

2. 40% less time consumption.

***1.7. BUSIINESS OPERTUNITIES:***

Our goal is to develop a management system that will allow users to check the availability , renewal ,returning of books .It will help the librarian in updating the status of users.

***2. SCOPE AND LIMITATIONS:***

***2.1. MAJOR FEATURES:***

i*. CATALOG MANAGEMENT:*

The catalog management will keep the tract of books that are available in library.

*ii. MEMBERSHIP MANAGEMENT:*

The membership management will maintain the record of members. The system will keep member name, id and phone number.

*iii. FINE MANAGEMENT:*

The fine management will keep record of every member fine status.

***2.2. SCOPE:***

The New fast Library Management System that is to be developed provides the Students of the University Library and staff with books information, online viewing of books and many other facilities.

***2.2. SCOPE OF INITIAL RELEASE:***

The early release of the new system will contain an online registration form for the students and store registration information and the Library System’s information, a secure internal network, and a Library’s administrators’ portal. This initial release will also include installation and support documentation for the Librarian and the University Students and Staff. Since this initial release will be fully functional, it is essential to include user and technical support documentation to easily use university portal. The product provides the members with online blocking of books capabilities and the library Management System is up and running all day.

**2.4 SCOPE OF SUBSSEQUENT RELEASE** :

Future releases will include:

• Online Account Deletion request capability.

• Online viewing of Student information.

• Online editing of Student information.

• View and update information online for better record keeping by Librarian and University staff.

• Allows FAST University the capability to analyze Student input and feedback, portal usage patterns, including data usage.

***3. BUSINESS CONTEXT:***

***3.1 STAKEHOLDER PROFILES:***

|  |  |  |
| --- | --- | --- |
| ***NAME*** | ***REPRESENT*** | ***ROLE*** |
| Librarian | The system need librarian | The librarian can use the system to update status of books and users. |
| Employees of Library | The employee uses the system to monitor books and members | They may not have much computer skills |
| Users | The users use the system to update their account, renew books | The users can check the availability of books through librarian |

***3.2 PROJECT PRIORITIES:***

|  |  |  |  |
| --- | --- | --- | --- |
| **DIMENSION** | **CONSTRAINT** | **DRIVER** | **DEGREE OF FREEDOM** |
| Features | All features schedule for release 1.0 must be fully operational |  |  |
| Quality | 90% of user acceptance tests must pass all tests. |  |  |
| Schedule |  |  | Release 1 planned to be available by end of Q1 of next year, release 2 by end of Q2; overrun of up to 2 weeks acceptable without sponsor review |
| Cost |  |  | Budget overrun up to 5% acceptable. |
| Staff |  | Team size is half-time project manager, half-time BA, 3 developers, and 1 tester; additional developer and half-time tester available if necessary |  |

***3.3 DEPLOYMENT CONSIDERATIONS:***

1.Library system will have Windows OS.

2.Access will be available during working hours (Monday-Friday, 8 am to 4 pm).

3.The software will need to be upgraded to latest version