SOFTWARE REQUIREMENTS SPECIFICATION(SRS):

TABLE OF CONTENTS

1. INTRODUCTION

The book bank is a set up that lends books for all its members which they can return later. It has a huge collection of books and has to keep track of all its members' details such as requests, dues and penalties and the books.

1.1 PURPOSE

The purpose of this document is to present a detailed description of the Book Bank System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will respond

1.2 SCOPE

The book bank holds an online interface with its members for maintaining all kinds of transaction details. Each member is provided with a unique user id at the time of registering as a member.

1.3 DOCUMENT CONVENTIONS

· Director: The ultimate authority in the staff hierarchy of the book bank

· Member: Any person who registers with the book bank

· HTML-Hyper Text Markup Language used to create web page.

2. OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

This project is a self contained one for enabling a book bank organization to be connected with its students, through this system, the students can check for availability of books, makes requests, etc.

2.2 PRODUCT FUNCTIONS

This system functions with a database at the back end, for keeping track of its member's dues and payments, and also its available resources. Every student who is a member needs only a web browser to connect to this system.

2.3 TOOLS TO BE USED

Visual basic and Microsoft Access

3. EXTERNAL INTERFACES

3.1 HARDWARE INTERFACES

The system should have good hardware support.

3.2 SOFTWARE INTERFACE

The system uses Oracle to connect and control the database.

4. SYSTEM FEATURES

4.1 REQUESTING BOOKS

4.1.1 SYSTEM DESCRIPTION & PRIORITY

Allows a student, who becomes a member to login using a unique id issued at the time of registering as a member, and after logging in, the member can browse through available books and make requests accordingly. The books will be issued provided there is no due, regarding returning of previous books.

4.1.2 RESPONSE SEQUENCE

Whenever the student wishes to get books, he/she checks for the availability by logging in. When the request is made, the director of the book bank decides on granting the request of book(s) after checking the member details for due in returning previous books.

4.1.3 FUNCTIONAL REQUIREMENTS

The member should be authenticated by means of unique login id and password. The availability of books requested must be prompted to the user through e-mail notifications.

5. OTHER NON-FUNCTIONAL REQUIREMENTS

5.1 PERFORMANCE REQUIREMENTS

The web interface should be able to support multiple users trying to log in simultaneously.

5.2 SAFETY REQUIREMENTS

The student details should be made available in the database and must be updated every time a book is issued or returned or some kind of payment takes place to prevent errors.

5.3 SECURITY REQUIREMENTS

The member can only access certain details from the database. He/she should not be able to modify the database nor has any of its information corrupted. Only the DBA must be bestowed with the privileges of handling any kind of modifications.