



## **School of Computing**

**SRM IST, Kattankulathur – 603 203**

**Course Code: 18CSC206J**

**Course Name: Software Engineering and Project Management**

<b>Experiment No</b>	1
<b>Title of Experiment</b>	To identify the Software Project, Create Business Case, Arrive at a Problem Statement
<b>Name of the candidate</b>	Shaurya Singh Srinet
<b>Team Members</b>	Shounak Chandra, Parth Galhotra
<b>Register Number</b>	RA2111032010006, RA2111032010026, RA2111032010029
<b>Date of Experiment</b>	20.01.23

## **Mark Split Up**

<b>S. No</b>	<b>Description</b>	<b>Maximum Mark</b>	<b>Mark Obtained</b>
1	Exercise	5	
2	Viva	5	
<b>Total</b>		<b>10</b>	

**Staff Signature with date**

**Aim:**

To Frame a project team, analyze, and identify a Software project. To create a business case and Arrive at a Problem Statement for the Library Management System

**Team Members:**

S. No	Register No	Name	Role
1	RA2111032010006	Shaurya Srinet	Lead/Rep
2	RA2111032010026	Shounak Chandra	Member
3	RA2111032010029	Parth Galhotra	Member

**Project Title: Library Management System****Project Description:**

Usually, large companies and organizations have a vast army of human resources working under them. The Library Management System is an application for assisting a librarian in managing a book library in a university. The system would provide a basic set of features to add/update members, add/update books, and manage check in specifications for the systems based on the client's statement of need. Its Development includes the establishment and maintenance of back-end database and front-end application development aspects. For the former require the establishment of data consistency and integrity of the strong data security and good libraries. As for the latter requires the application fully functional, easy to use and so on. This project aims to build a Library Management System which mainly focuses on basic operations in a library like adding new books, and updating new information, searching books and members, and returning books. We can enter the record of new books and retrieve the details of books available in the library. We can issue the books to the students and maintain their records and can also check how many books are issued and stock available in the library. In this project we can maintain the late fine of students who return the issued books after the due date.

**Business Case****The Project:**

- The Library Management System aims to streamline the administration system in a Library.
- It provides an interface which provides easy and concise access to the management of a library.
- Work can be done by a very small number of people.
- This project can free up manual labor costs which in turn can be used to implement additional value-added services.

**The History:**

- In managing a library and its records, excess of physical records which must be stored which takes up space and time.
- The greater amount of funds has been put to the labour in managing the library.
- False return and borrow claims are being forged in various cases.
- Automating the management can help streamline the process safely and securely.

**Limitations:**

- High end encryptions not used so it can be hacked.
- Multi-Platform usage may be limited.
- Takes time to be integrated into the workflow of the company.
- User level restrictions are very lenient.

**Approach:**

- The management system can ensure efficient access to information which is imperative for businesses.
- It can facilitate continued professional development and self-lead training.
- Very easy to learn which anyone in staff can make use of it without prior knowledge.
- Electronic information is easier to search through than physical texts.
- Ability to add on additional services if needed.

**Benefits:**

- The borrower details are stored & maintained.
- It is easy to do library audits any time as records are maintained by the highly efficient software which is easy to access.
- It is simple to maximize performance of the libraries with the dynamic reports, graphs, and charts to review or track progress for better decision-making.
- Such systems are often updated & maintained just to ensure that user databases are confidential and secure at every time.
- The automated system allows flexible information access.
- It also allows the users to access information both offline and online even on their mobile phones.

**Result:**

Thus, the project team formed, the project is described, the business case was prepared, and the problem statement was arrived.