# Requirement Analysis Phase

**Inputs:** System Improvement Objectives

-Gearing up tracking,borrowing and ordering functions for the system users that must be easy to discoverable,secure and faster than what a user expected.

-Providing well-detailed reporting ability in terms of system functions' dependencies such as; time period,cost,customer profile,benefit and derivative data which is based on data mining issues.

-Supporting remote control units to the staffs in order to make them authorized doing data manipulation via web.

*-What capabilities should the new system provide for it's users?*

LAS is based on Service Oriented Architecture (SOA). This capability allows managers to separate different management issues and get divided work flow. SOA also will be available for possible future needs of the system. Because of it's modularity; changes of job requirements, overflowed system needs can be covered as it needed. Modules can be grouped as;

**-acquisitions:** (ordering, receiving, and invoicing materials)

**-cataloging:** (classifying and indexing materials)

-**circulation:** (lending materials to patrons and receiving them back)

**-serials:** (tracking magazine and newspaper holdings)

Since it's an ERP system ; users will be authorized for getting reports which are related their modules. And also; LAS' smart database management system can derivate  data  for data mining issues.

*-What data must be captured and stored ?*

LAS is aimed to collect all the data in order to generate new information in case of  being a source for marketing, service or customer relationship departments' for future needs.

*-What are the priorities of the various requirements?*

**Training:** Staffs and managers must be well trained about the system and their roles at hierarchy. Moreover; each person has to obey the system rules and responsible for the data.

**Database System:** Because of data mining issues; well-planned and organized data schema is an obligation for the system.

**Hardware:** Simple bar-cod input and output system , pc network and a dedicated server machine meets the requirements.

**Outputs:** Business Requirements Statement.

## Technical Requirements

-Well planned organizational schema

-Priorities of the services

-Good collected storage in terms of labeling and pricing.

## Hardware Requirements

-Secured Network System ; computers and routers, hubs etc.

-Dedicated Server Computer

-Basic bar-cod input and output system