

PROJECT TOPIC: *Library Management System*

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TECHNICAL FEASIBILITY STUDY

Technical Feasibility

The purpose of this technical feasibility study is to assess whether the proposed development of the Library Management System is technically available given the available resources, technology and expertise.

Feasibility Questions:

1. Do stakeholders have the expertise needed?

Front-End: HTML, CSS, JAVASCRIPT

Back-End: Python Django Framework

2. Are additional resources needed in the system including infrastructure, skill sets or job aids

Yes, the additional resources such as infrastructure, skill sets and job aids are necessary.

Infrastructure - consider whether additional hardware, software, or network resources are needed to ensure the system's smooth operation.

Skill sets - If there are skill gaps, consider whether training programs or hiring individuals with the necessary expertise is necessary.

Job Aids - Such as documentation, manuals or training materials are needed to assist stakeholders in using and managing the system effectively. Creating user guides or providing training sessions might be necessary.

3. Is the system ready in the terms of the technology required?

Compatibility - Ensure that the selected technology components are compatible with each other and with the existing IT infrastructure.

Performance - Evaluate whether the technology can deliver the required performance levels. This includes considerations such as processing speed, data storage capacity, and network bandwidth.

Security - Assess whether the technology provides the necessary security features and protocols to protect the system's data and functionality from potential threats and vulnerabilities.

Economic Feasibility

Economic feasibility for a Library Management System refers to the evaluation of whether implementing and maintaining the system is financially viable and cost-effective. It involves assessing the costs associated with development, operation and maintenance as well as the potential benefits and returns on investments for the Library or Organization. The analysis helps determine whether the system's benefits outweigh its costs over its projected lifespan.

Feasibility Questions:

1. Do the resources needed exist?

Yes, these resources encompass various aspects, including financial, human and physical resources.

Technical Resources - Assess whether the technical expertise and skills required to develop, deploy, and maintain the Library Management System are available within your organization or can be hired or trained. Technical resources include programmers, database administrators, and IT support staff.

Skill sets - If there are skill gaps, consider whether training programs or hiring individuals with the necessary expertise is necessary.

2. Will the proposed system service or initiative lead to the better use of resources to improve the system outcomes, when compared with other options?

User Satisfaction - Consider how the proposed system will impact user satisfaction. Will it lead to better library services, improved user experiences.

Compatibility - Consider whether the new system can seamlessly integrate with existing library processes, software, and hardware.

Resource Utilization - Assess whether the proposed system can make better use of existing resources, including staff, hardware, software, and budget.

Operational Feasibility

Operational feasibility for a Library Management System refers to assessing whether the system can be effectively integrated into the daily operations of the library. It evaluates whether the system can be used efficiently by library staff, whether it aligns with existing workflows, and whether it contributes positively to the overall operational efficiency and effectiveness of the library.

Feasibility Questions:

1. Do existing system procedures and protocols support the new service or initiative?

Protocol Documentation - Ensure that the new procedures and protocols introduced by the Library Management System are well-documented. Clear documentation is essential for training, troubleshooting, and ensuring consistent operations.

Compatibility with Existing Procedures - Evaluate whether the proposed Library Management System aligns with and complements the existing library procedures.

User Experience - Consider how the new system and its procedures will impact library users.

2. How will key collaborators be involved?

Identify Key Collaborators: Identify individuals or groups who have a stake in the project's success. These could include department heads, team leaders, subject matter experts, external partners, or other relevant stakeholders.

Assess Resource Availability: Collaboratively assess the availability of resources required for the project, such as personnel, budget, equipment, and facilities.

Evaluate Compatibility: Determine whether the proposed project aligns with existing processes, systems, and workflows within the organization.