Feasibility Study - TechTrove

A feasibility study is a thorough examination of a proposed project, initiative, or business proposal to determine its viability and potential for success. It entails acquiring and analyzing important data in order to evaluate many variables such as technical, economic, legal, operational, and scheduling factors. A feasibility study's major goal is to give stakeholders with important insights into the project's viability and dangers, allowing them to make educated decisions. A feasibility study is an important tool for establishing whether a proposed project is viable, realistic, and aligned with the organization's goals and resources by identifying potential challenges, estimating costs and benefits, and comparing alternatives.

Economic Feasibility:

The economic feasibility analysis for 'TechTrove' website entails a thorough examination of its financial sustainability. To determine whether a project will be beneficial and viable, its pedicted cost, prospective sources of revenue, and expected return on investment must be evaluated. Some the questions addressed during the inquiry are the following:

- What is the cost of the hardware and software?
  - All the resources are readily available.
- How will the TechTrove's ongoing operational costs be controlled and sustained?
  - As the proposed system is being created as part of a academic project, it will focus on the use of open-source platforms and free tools for website building and hosting. Inventory may consist of virtual or sample products. As a result, the 'TechTrove' has no ongoing operating costs.

Technical Feasibility:

The technical feasibility study is critical in determining the practicability and achievability of a proposed system's technical aspects. The analysis assures that the project can be completed effectively within the academic restrictions by examining the availability of essential resources, technical capabilities, and compatibility with existing infrastructure.

- What technical skills are required to develop and implement the proposed system?
  - The proposed framework requires knowledge of web development tools such as HTML, CSS, JavaScript, as well as a backend language such as Python. Database management systems like MySQL may also be required.
- Is it necessary for users to be familiar with the technology?
  - No
- How well does the proposed system function with various web browsers and devices?
  - The system is supported by all modern browsers and devices.

Behavioural Feasibility:

The behavioral feasibility is critical since it focuses on understanding user behavior, preferences, and concerns. The project team obtains vital insights about the target population by performing this assessment, allowing them to design the website to match users' individual requirements and expectations.

- How will the proposed system ensure user adoption and engagement?
- ➢ User adoption and engagement will be prioritized through a simple and user-friendly design, personalized product recommendations, and interactive features such as customer reviews and ratings.
- How will user trust and credibility be ensured on the website?
- ➢ By displaying customer reviews and secure payment icons.

The project would be beneficial since it would meet the objectives when designed and implemented. All behavioral concerns are carefully studied, and it is determined that the project is behaviorally feasible.