# **Feasibility Study**

**Introduction**

A feasibility study is a detailed analysis conducted to determine the viability of a proposed project or idea. It helps decide whether a project is feasible and worth pursuing by evaluating various factors like technical requirements, financial implications, and market potential. Here's a breakdown of the key components typically included in a feasibility study, especially for a software project

1. **Technical Feasibility**
   1. **Introduction**

The Technical Feasibility section examines the technological requirements and resources necessary for setting up and operating an online store. This includes the choice of platform, payment solutions, and technical infrastructure.

* 1. **Technical Requirements**

**1.2.1)** **Software Requirements**

1. Payment Gateway
2. Operating System like windows, mac or Linux
3. Database like MySQL
4. Web server
5. Development Environment like VS code and Git Hub
6. E-commerce Platform (optional)

**1.2.2)** **Hardware Requirements**

1. Servers: We can use cloud hosting platforms like AWS, Google Cloud, or Azure for servers, backups, and storage.
2. Internet Connectivity: High-speed internet connection essential for managing store operations and development
3. Development Devices: we need PCs or laptops to develop.
   1. **Technical Expertise**
4. Frontend: we use languages like (JavaScript, HTML5, CSS3) and use libraries like Bootstrap or Material-UI
5. Backend: For the backend, we will use native PHP
6. Database: We will use a relational database like MySQL.
7. UI/UX: use Canva to design pages
   1. **Project Complexity and Risks**
8. Scalability: Ensure the system can handle growth in users and data.
9. Security Requirements: Identify necessary cybersecurity measures to protect user data
10. Website Performance:

* Slow Loading: Pages may take too long to load, causing frustration.
* Downtime: The website could be temporarily unavailable, leading to lost sales.

1. Navigation Issues: The user interface must be simple to make it easy for users to navigate the website.
2. Account Management: Users may face challenges while managing an account or in setup.
3. Product Information: Lack of detailed product information can make users hesitant to purchase
4. **Economic Feasibility**