**Feasibility Analysis**

Technical Feasibility

1. **Technology Stack**:
   1. **Front-End:**

* **HTML5, CSS, JavaScript:** Core technologies for building the website's structure, style, and interactivity.
* **React :** Popular JavaScript frameworks for efficient and scalable front-end development.
  1. **Back-End:**
* **JavaScript.js:** A JavaScript runtime environment for building server-side applications.
* **PHP**
  1. **Database:**
* **MySQL:** Relational databases for structured data storage.

1. **Development Resources**:

2.1 **Front-End Developers:** has knowledge in HTML, CSS, JavaScript, and a front-end framework like React

2.2 **Back-End Developers:** has knowledge in php, javascrept.js, or Python with Django or Flask.

2.3 **Database Administrators:** Knowledge of database design, optimization, and security.

1. **Integrations**:

3.1 **Payment Processors:** Integrate seamlessly with popular payment gateways like Stripe.

Economic Feasibility

**1. Development Costs**:

* + Front-end and Back-end Development: $0,000
  + Design and UI/UX: $0,000
  + Database Design and Implementation: $0,000
  + Testing and QA: $0,000
  + Project Management: $0,000
  + **Total Initial Cost:** $00,000

1. **Operational Costs**:

**Ongoing Costs:**

* Security Measures: $5/year
* Maintenance and Updates: $0,00/year
* Customer Support: $1,000/year
* Marketing and Advertising: $0,00/year
* **Total Annual Operational Cost:** $1,005

Organizational Feasibility

**1. Company Goals Alignment**: the e-commerce project aligns with the organization's strategic goals and objectives(providing online products).

**2. Staff Readiness**:

 **Skill Set:** the existing employees possess the necessary skills (e.g., digital marketing, e-commerce platform management, customer service) to manage the project

 **Workload Capacity:** the current staff handle the additional workload, and will not be an additional hiring required

1. **Internal Policies**:

 **Customer Service:** there are established customer service standards and processes for handling inquiries, complaints, and returns

Schedule Feasibility

* + 1. **Timeline for Development**:

**Phase 1: Planning and analysis**

* **Task 1: Project Kick-off Meeting**
  + Duration: 1 hour
* **Task 2: Requirements Gathering and Analysis**
  + Duration: 5 days
* **Task 3: Project Scope Definition**
  + Duration: 3 days
* **Task 4: Team Formation and Resource Allocation**
  + Duration: 2 days

**Phase 2: Design**

* **Task 6: DFD**
  + Duration: 5 days
* **Task 7: UI Design**
  + Duration: 15 days

**Phase 3: Development**

* **Task 8: Front-end Development**
  + Duration: 30 days
* **Task 9: Back-end Development**
  + Duration: 40 days
* **Task 10: API Development**
  + Duration: 15 days
* **Task 11: Database Design and Implementation**
  + Duration: 1 day

**Phase 4: Testing**

* **Task 12: Unit Testing**
  + Duration: 10 days
* **Task 13: Integration Testing**
  + Duration: 15 days