**SDG Problem Definition Document**

Project Title: Enhancing Healthcare Access through Improved Treatment Data Management

**1. Sustainable Development Goal (SDG) Selection**

**SDG 3: Good Health and Well-being**

**2. Problem Definition**

Access to healthcare is a fundamental right, yet many patients face barriers that prevent them from receiving timely and effective treatment. In hospitals, inefficient data management and lack of integration between treatment records can lead to delays in patient care, miscommunication among healthcare providers, and ultimately affect patient outcomes.

**Specific Problem:**

**Inefficient Treatment Data Management:**

Many hospitals lack a centralized database to manage treatment information, leading to difficulties in tracking patient histories, treatment plans, and outcomes.

The current manual systems result in data redundancy, errors, and delays in retrieving critical patient information.

**3. Impact of the Problem**

* Delayed Treatments: Patients may experience longer wait times for necessary treatments due to lack of access to accurate medical histories.
* Increased Costs: Inefficiencies can lead to higher operational costs for hospitals due to unnecessary tests and procedures.
* Poor Health Outcomes: Inaccurate or incomplete treatment records can negatively impact the quality of care and overall patient satisfaction.

**4. Objectives**

* To develop a centralized database system to manage treatment data effectively.
* To streamline the process of data entry and retrieval for healthcare providers.
* To analyze treatment data for insights that can improve patient outcomes and operational efficiency.

**5. Data-Driven Solution**

The project will involve designing a relational database that includes key entities such as:

* Patients: To store patient demographics and health records.
* Doctors: To manage doctor information, including specialties and contact details.
* Treatments: To document available treatments and associated costs.
* Locations: To keep track of different hospital departments and their services.

**6. Methodology**

Database Design: Create an Entity-Relationship Diagram (ERD) to outline the relationships between different entities.

Data Analysis: Write SQL queries to analyze treatment data and generate insights.

Excel Integration: Use Microsoft Excel for data visualization and analysis through pivot tables and charts.

**7. Expected Outcomes**

* Improved access to treatment data for healthcare providers.
* Enhanced patient care through timely and informed decision-making.
* Better resource allocation and reduced operational costs for the hospital.

**8. Conclusion**

By addressing the issues surrounding treatment data management in hospitals, this project aligns with SDG 3 by aiming to ensure healthy lives and promote well-being for all at all ages. Implementing a robust data management system will facilitate improved healthcare delivery and better patient outcomes.