**Problem Definition Paper**

**Setting of Problem: The problem is in this health care organization. EHR (Electronic Health Record) is one of the most used systems in nowadays. This large information system was put in place to simplify the management of patient data, and it makes the store the patient data easier. A large group of health care specialist in organization is relying on this because it is used to manage health records, medical history of patient, treatment plans and other health care data. Health care professionals like doctors, nurse, administrative staff uses the EHR to provide quality of patient care and maintaining the records online.**

**Problem Definition:**

**The existing EHR system is ineffective and incompatible, which is the current problem. It is beneficial because instead of putting records down on paper or in papers, this EHR enhances record keeping online. However, it is a laborious process to preserve these records for a long time. But on the other side you shouldn't constantly rely on EHR because it occasionally has problems with the server, security, and other computer systems. As a result, patient care may take longer. Additionally, it's possible for someone to steal patient information, which might be a major issue.**

**Scope of the Problem:**

The scale of this issue is enormous; patients are also being impacted in addition to the healthcare system. For the EHR system to function properly and be maintained, a large number of staff are required to interface with it. because different departments with expertise in healthcare must periodically handle this system. If it is like this, there may be no more healthcare, which may result in poor quality in the healthcare organization. It may also go at a great financial cost and impair patient safety. By resolving these problems, the entire healthcare system will become profitable and improve patient care while reducing administrative expenses and increasing safety measures.

**Goals and Objectives of the Analysis and Design Project:**

Themain goal of this analysis and design project is to deal with the EHR system to improve patient care , efficiency, data quality and safety of the patients.

**Objectives:**

**Analyze the EHR System:**

To begin the study, it is necessary to look at how the current EHR system is operating, what can be done, and what the issues are, such as why it is not functioning. then check the patient's history since admission.

**Establish System Specifications:**

A defined set of guidelines for the new system must be created by taking the flow of patient and health care data into consideration.

**Evaluate EHR Alternatives and Develop System Blueprint:** In order to discover a solution and determine whether these requirements are met, it is necessary to assess the EHR systems.

**Design and Implementation Planning:**

Here, a new EHR system's blueprint needs to be created. It should cover data management, medical staff accessibility, and data migration strategies. Finally, put the new EHR system improvements into practice and test them to ensure a smooth transition that disturbs the organization as little as possible.

A more effective, user-friendly, and interoperable EHR system will result from the successful completion of this project, allowing healthcare professionals to access and share patient data more successfully. Patient safety will increase, administrative costs will be lighter, and patient care will be better as a result. The healthcare organization's commitment to offering high-quality healthcare services and guaranteeing patient happiness depends on resolving this issue.