



The class diagram for the Patient Identification System illustrates the structure and relationships among the key components responsible for matching incoming patient data with existing patient records and ensuring accurate attribution of data.

At the top of the system is the PatientIdentifier class, which is responsible for matching patient IDs from incoming data with patient records in the database. This class provides methods for matching patient IDs and retrieving patient records based on the provided ID. The PatientIdentifier class has an association with the PatientRecord class, representing a patient's comprehensive record, including personal information and medical history. This association indicates that the PatientIdentifier class interacts with instances of PatientRecord to retrieve patient details based on the provided patient ID.

Additionally, the PatientIdentifier class interfaces with the Data Storage System through an association, enabling the updating of patient records with incoming data and supporting the retrieval of patient details based on IDs.