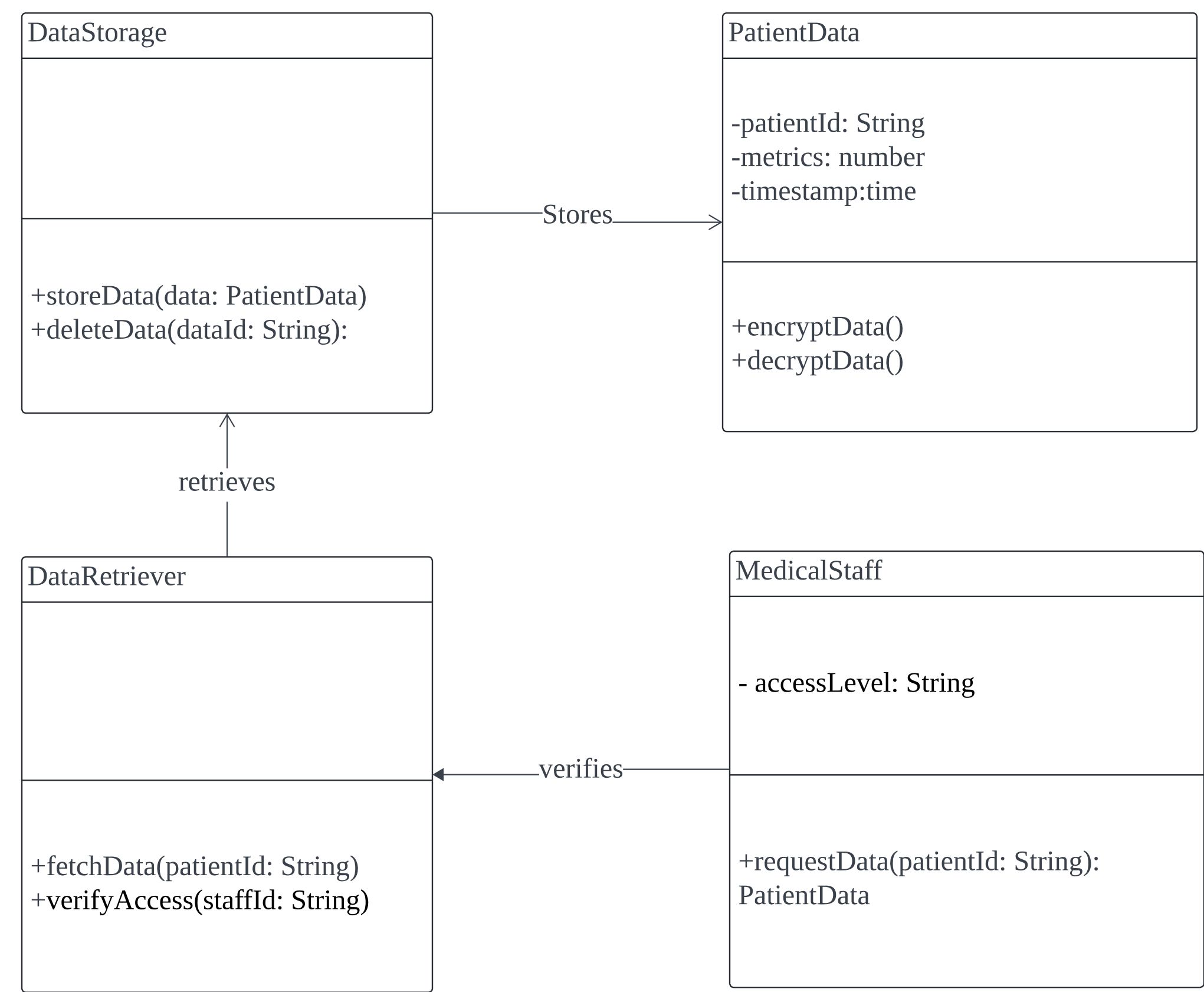


Data Storage System



This UML class diagram illustrates the key components and their interactions within a data storage system. The primary function of this system is to securely store and manage patient data, including both real-time and historical data.

- DataStorage:**
 - Responsibilities: Responsible for storing and deleting patient data.
 - Methods:
 - `storeData(data: PatientData)`:
 - `deleteData(dataId: String)`:
 - Relationships: Interacts with **PatientData** to store patient information securely.
- PatientData:**
 - Attributes: Contains patient ID (`patientId`), health metrics (`metrics`), and timestamp (`timestamp`).
 - Methods:
 - `encryptData()`:
 - `decryptData()`:
 - Relationships: Used by **DataStorage** to store and manage patient information.
- DataRetriever:**
 - Responsibilities: Responsible for retrieving patient data from **DataStorage** and verifying access permissions for medical staff.
 - Methods:
 - `fetchData(patientId: String)`: **PatientData** is used to retrieve data.
 - `verifyAccess(staffId: String)`: verify access permissions.
 - Relationships: Retrieves data from **DataStorage** and controls access by verifying the identity of **MedicalStaff**.
- MedicalStaff:**
 - Attributes: Contains access level (`accessLevel`).
 - Methods:
 - `requestData(patientId: String): PatientData`: **PatientData** is used to request patient data.
 - Relationships: Verified by **DataRetriever** to obtain necessary patient data based on access permissions.