



This diagram models storage and access system:

1. **DataStorage**
 - Backed by a key-value database, it is responsible for persisting PatientData records and exposing CRUD methods (storeData(), get(), getPatientData(), deleteData()).
 - It aggregates zero or more PatientData instances (1 – 0..*), each of which carries a timestamp and vital signs.
2. **PatientData & History**
 - Each PatientData object (heart rate, saturation, blood pressure at a given time) is stored in DataStorage.
 - A separate History class maintains the full timeline for one patient (1 – 0..*), providing getHistory(patientId, verificationAccess) and updateHistory(patientId, data, verificationAccess).
3. **DataRetriever**
 - All operations (doAnActionWithData(...)) require a VerificationAccess token, which it first checks via DataBaseAuthetication.
 - Once authenticated, DataRetriever routes calls to either DataStorage or History as appropriate.
4. **DataBaseAuthetication**
 - Encapsulates credential checks against the same key-value database.

Flow:

A staff client calls DataRetriever.doAnActionWithData(...). Before executing, DataRetriever invokes DataBaseAuthetication.checkAccess(...). If verification succeeds, it forwards the request—either storing or fetching raw PatientData via DataStorage, or retrieving/updating the patient’s timeline through History.