PatientData

- patient: Patient
- historyData: List[]
- note: String

+ setPatient(Patient patient): void
+ addRecord(int bs, ins hr): void
+ setNote(String note): void
+ getPatient(): Patient
+ getRecord(): List[]
+ getNote(): String
+ deletePatient(): void

DataRetriever

+ authenticate(E): boolean
+ checkPermission(E): boolean
+ dataDecryption(PatientData): PatientData
+ retrieveData(): PatientData

Data Storage

+ saveData(PatientData patientData): void
+ authenticate(E): boolean
+ dataValidation(PatientData): void
+ dataEncryption(E): PatientData

DataDeleter

- deletePolicy: DeletePolicy
+ checkStatus(): void

Use

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Each time a user trying to save data to PatientData, it will get authenticated first. If passed, then validate the data. After validation, the patient data will be encrypted in certain way. Finally, the encrypted data will be pass through a saveDate method to insure secured passage to the database.

The retrieval will be kind of the same process. In addition to authentication, it also checks the permissions of the user to make sure the access of certain data. Data is going to retrieved by the retrieveData method via a secured channel. Data retrieved from the will be decrypt after by the dataDecryption method.

A DataDeletor object will be instance all the time. Calling the checkStatus method in a predefined manner. It will perform data deletion based on deletion policy.