

Data Storage System – UML class diagram explanation

The class diagram for the Data Storage System illustrates the working of the three classes present in the System: `DataStorage`, `DataRetreiver` and `PatientData`. `PatientData` contains all the current patient information in the hospital, like the `patientId`, `timeStamp` of the last information and the `vitalSigns`. That is obtained through the `DataSourceAdapter` class contained in the Data Access Layer System, which is why they are connected through an association arrow. `PatientData` also has dependency with many other classes, as it is used by them to get the information of the patients. Those classes are `AlertGenerator`, `Alert`, `AlertManager`, `PatientIdentifier` and, from this system, `DataStorage` and `DataRetreiver`. `DataStorage` contains two methods, `storeData()` and `deleteData()` that do just that, ensuring the data is well managed. This class is associated with the third one on this system, the `DataRetreiver`, as the `DataRetreiver` uses `DataStorage` to retrieve the stored data. Tat fetching is made possible with the function `fetchData()`.