Every time there is need for data listening, a DataSourceAdapter will be instantiated. When it instantiates, it also constructs a DataParser. The paser will create a certain type of listener depending on the input source. The listener receives raw data and returns to DataParser as a certain type of data. Parser will handle the data based on different input sources and distribute every data to their correct correspondence variables perhaps in a form of Map. It returns the classified data to the adapter. The adapter then process the data into a system uniformed data type, in this case a PatientData.