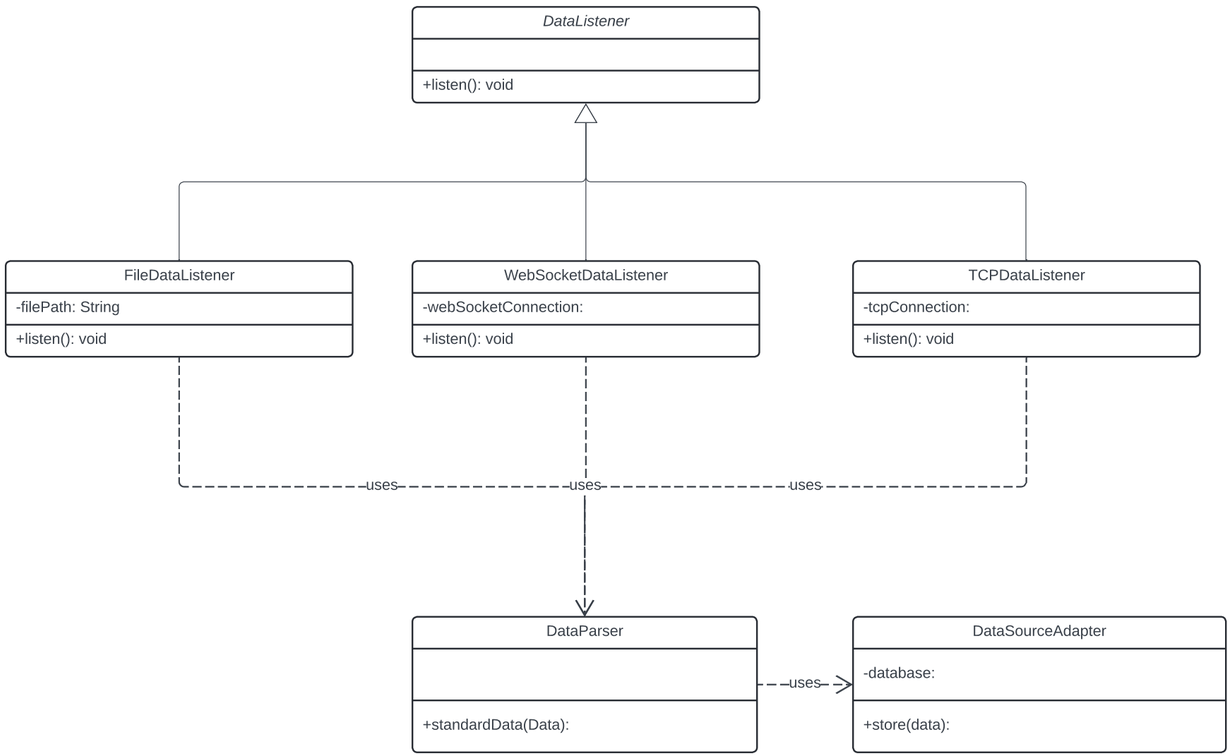
Data Access Layer



This UML class diagram shows the key components and interactions in the data access layer, which handles patient data from various sources and ensures it's accurately processed and stored.

1. DataListener:
   - This is an abstract class with a listen() method meant to be implemented by subclasses. It defines how to listen for incoming data.
   - TCPDataListener, WebSocketDataListener, and FileDataListener inherit from DataListener and handle TCP, WebSocket, and file data sources respectively.

2. TCPDataListener:
   - Inherits from DataListener and adds a tcpConnection attribute to manage TCP connections. It listens for TCP data using the listen() method.

3. WebSocketDataListener:
   - Inherits from DataListener and has a webSocketConnection attribute for managing WebSocket connections. It listens for WebSocket data using the listen() method.

4. FileDataListener:
- It listens for file data using the listen() method.

5. DataParser:
- StandardData method to convert raw data into a standard format. After receiving data, the DataListener subclasses use DataParser to parse it.

6. DataSourceAdapter:
•Has a database attribute to manage the database connection. It provides a store(data: StandardData): to save parsed data to the database. DataParser passes the standardized data to DataSourceAdapter for storage.