



Data Access Layer UML Documentation Overview

- **DataListener Interface**: Establishes methods for reading and processing data from various sources.
- **FileDataListener Class**: Handles file-based data input, utilizing attributes like `filePath` and methods such as `readData()` for processing file data into usable formats.
- **TCPDataListener Class**: Manages data reception over TCP/IP, featuring methods for establishing connections, reading data, and closing connections when necessary.
- The **DataListener** provides the blueprint for reading and processing data, ensuring that any class implementing this interface can interact seamlessly with the system's data management.
- **FileDataListener** and **TCPDataListener** are tailored to specific data sources, ensuring efficient handling of file and network data respectively.
- The separation of data handling into specific classes allows for modular and maintainable code, facilitating potential future extensions like integrating additional data sources.
- These classes are designed to integrate easily with other system components, allowing the system to expand its data handling capabilities without significant restructuring.