**Software Requirements Specification (SRS)**

**Application Name**: *textBookNotes*

**1. Introduction**

**1.1 Purpose**  
The purpose of this application is to help users record and save their daily impressions of textbooks and new words they learn. The system will provide a simple interface to create, read, update, and delete daily notes.

**1.2 Scope**  
The application will allow users to:

* Add notes about their textbook impressions.
* Save and manage new words learned each day.
* View previous entries by date, by name and by ID.
* Search notes and words by keywords, id, or dates.

**1.3 Intended Audience**  
This application is designed for individual users, such as students or avid readers, who want to maintain a record of their learning progress.

**1.4 Assumptions and Constraints**

* The application will be a Java-based standalone application.
* Data will be saved locally in a file (e.g., a .txt or .csv file) or a lightweight database like SQLite.
* The application will support basic text-based input and output.

**2. Functional Requirements**

**2.1 Core Features**

1. **Add Daily Notes**:
   * User can add notes containing textbook impressions and a list of new words.
   * Notes will be saved with the current date.
2. **View Notes**:

* User can view all saved notes by date or search for specific notes using keywords.

1. **Edit Notes**:

* User can update existing notes.

1. Delete Notes:

* User can delete existing notes.

**2.2 Non-Functional Requirements**

* **Usability**: The application should have a clear and simple and friendly console interface.
* **Performance**: The application should quickly retrieve and display saved notes.
* **Data Integrity**: Notes must not be lost when the application is closed.

**3. System Design**

**3.1 Class Diagram**

**3.1 DFD Diagram**

**3.2 File Management**

**4. Use Cases**

**5. Tools and Technologies**

* Programming Language: **Java**
* File Storage: **Text File** or **SQL** (optional)
* IDE: **VSCode;**