Document Use Case - PGKB data synchronization

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| **Use Case name:**  PGKB data synchronization | | **ID:**  SYNC | **Priority:**  Medium |
| **Primary actor:**  Administrator | **Source:**  PGKB knowledge base | **Use case type:**  Business | **Level:**  Detailed |
| **Interested Stakeholders:**  General user (doctors & scientists) | | | |
| **Brief description:**  This use case describes the regular synchronization of knowledge base data in the system with PGKB, which is essential for providing up-to-date information for general users. Metadata of the knowledge base is traceable after each synchronization event. | | | |
| **Goals:**   * Successful retrieval of all the information required by the system from PGKB. * Successful update of tables in the knowledge base. * Successful display of metadata of the knowledge base on the web page. | | | |
| **Success measurement:**   * All the information in the knowledge base is synchronized with PGKB once decided by the administrator. | | | |
| **Precondition:**   * Administrator has successfully login with the administrator account & password. * PostgreSQL database has been successfully built and configured on the server.   **Trigger:**   * Administrator evaluated current state of the knowledge base by viewing metadata and selected the checkbox for synchronization before submitting the form on the software management panel. | | | |
| **Relationships:**  **Include: / Extend: / Depends on: /** | | | |
| **Typical flow of events:**   1. Administrator logins. 2. Administrator clicks software management panel on the sidebar. 3. Administrator views metadata shown on the web page and decides to synchronize data. 4. Administrator select “synchronize” checkbox before submitting. 5. If data is successfully synchronized, administrator is redirected to the software management panel with updated metadata; if not, administrator is redirected to the error page with informative error message shown. | | | |
| **Assumptions:**   1. It is assumed that data of PGKB keeps accessible to the general public and its URL & structure remains unchanged. 2. It is assumed that PostgreSQL version is compatible with JDBC used by the system. | | | |
| **Implementation Constraints and Specifications:**   1. Implement DELETE and COPY SQL transaction through JDBC. | | | |