# **Analysis of the Business Model for Agreements DataBase**

# **Business Requirements**

Below are the database’s functional and non-functional requirements that were defined by the users who are meant to interact with the portal.

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|  | **Requirement** | **Required/ Desirable** |
|  | The contracts database portal should allow team members to easily login and access contract documents. | Required |
|  | The portal should allow focal points to upload, edit and update contract document together with its relevant information – SLA start data, end date, service provider, service offered. | Required |
|  | The portal should include search functionalities such that it is easy to search for a target document. | Required |
|  | The portal should be a single and well-organized repository for all agreement documents – SLAs, IT Licenses, Data use Licenses, subscriptions. | Required |
|  | The portal should be usable (ease to learn and use) for all users. | Required |
|  | The database platform should be a well-structured database infrastructure. | Required |
|  | The users of the portal should have different permissions: by default, all users shall be able view content while a restricted numbers of users (those who will be in charge of editing and uploading SLA documents) should be able to manage (create-retrieve-update-delete) the documents. | Required |
|  | SLA documents should be orderable by ID, date and title. | Required |
|  | The contract documents should be classified according to their specific category. A contract document might be SLA document, IT Licenses or subscription. | Required |
|  | Notify end users on the expiry of the SLAs, License, Agreements etc. | Required |

**Data Base Model**

Diagram

Description automatically generated

**Analysis of the Data Model Developed**

* Users are mapped to the User\_Agreement\_interactions in one-to-many relationship implying a single user can do many interactions.
* Service providers are mapped to the Agreements table in one-to-many relationship implying a single service provider can have many agreements attached to him.
* Receiving\_unep\_divisions table is mapped to the agreement in one-to-many relationship implying a single division can have many agreements attached to it.
* Agreements table is mapped to user\_agreement\_interactions table in one-to-many relationship implying an agreement can be accessed by the user several times.
* Agreement\_type table is mapped to Agreement table in a one-to-many relationship.

The number of tables can be trimmed to improve on the efficiency of the database querying.

For this data model, I would maintain four tables and increase on the number of rows for each table. The data types in the columns will also change to accommodate the data

Below is adjusted table structure.

Graphical user interface, application

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