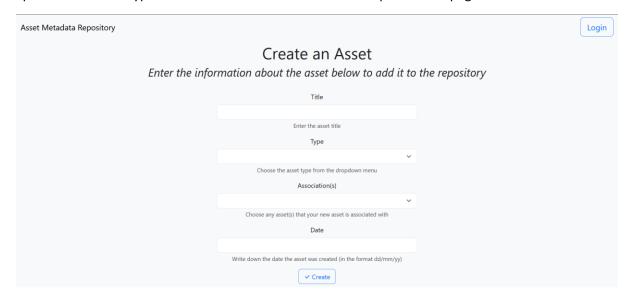**The following is an attempt to breakdown how we should set the html pages on the frontend, and how we should set the database/tables for the backend.**
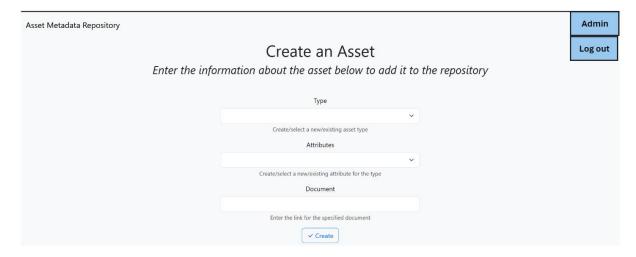
Frontend side

Split the asset and type halves of the data insertion as two separate web pages

Asset Metadata Repository | Login

Create an Asset
Enter the information about the asset below to add it to the repository

Title

Enter the asset title

Type

Choose the asset type from the dropdown menu

Association(s)

Choose any asset(s) that your new asset is associated with

Date

Write down the date the asset was created (in the format dd/mm/yy)

✓ Create

The asset page will:

- Let the user enter the name of the asset
- Let the user select the type of the asset from a dropdown menu
- Let the user select which asset(s) this one will be associated with
- Let the user enter the date at which the asset was created – MAYBE WE SHOULD MAKE THIS AN AUTOMATIC PROCESS I.E. THE PROGRAM GETS THE DATE INFO FROM THE USER'S SETTINGS OR GOOGLE ETC.

Asset Metadata Repository | Admin | Log out

Create an Asset
Enter the information about the asset below to add it to the repository

Type

Create/select a new/existing asset type

Attributes

Create/select a new/existing attribute for the type

Document

Enter the link for the specified document

✓ Create

The type page (exclusive to the admin user) will:

- Let the user create or select an existing type
- Let the user create or select an existing attribute
  - The reason for letting the user select existing types/attributes is for the example case where a new type can make use of a pre-existing attribute already in the database
- Let the user link a document to the selected type/attribute combination

Assets Table

ID	Name	Type	Association
1	PS5	Console	____
2	PS5_Pro	Console	PS5
3	PS5_Controller	Console_Accessory	PS5

Type Table

ID	Type	Attributes	Documents
1	Console	SSD	SSD document
2	Console	HDMI port	PS5 Schema
3	Console_Accessory	Controller	PS5 controller doc

Assets Table

ID	Name	Type	Association	Attributes	Documents
1	PS5	Console	____	SSD	SSD document
1	PS5	Console	____	HDMI port	PS5 Schema

The above is what the information put into the web pages will be stored as in the database.

The green section:

- Is exactly what will be stored in the database
- Shows the 2 tables that will be used for storing the asset and type information
- We need to think about how associations will be stored:
  - Do we make that column an array so that one row in the assets table can store multiple associations?
  - Or do we make it so that multiple entries in the assets table can share the same 'Name', and 'Type' as long as the 'Association' is unique from previous entries?

The blue section:

- Shows how the data in the two tables can be queried to give all the relevant information needed
- The 'Attributes' and 'Documents' columns are borrowed from the Type table through a query such as "SELECT * FROM Type WHERE Assets.TYPE = Type.Type"
  - Don't take the above query as fact, I'm just stating that for the sake of argument, my syntax etc might be wrong; databases was like 5 months ago, leave me alone x