ER outline for the asset database

Entities:

* User
* Asset
* Asset type
* Document
* Project
* Role
* Log

Relationships:

* User-Role:
  + ISA one to one
  + A user can only have a distinct role (e.g. admin, normal, viewer)
* Asset-asset:
  + Many to many
  + Assets themselves can have many relationships
* Asset-document:
  + One to many
  + An asset can have multiple documents (stored as links to external files)
* Asset-type:
  + Many to one
  + An asset belongs to a specific asset type
* Asset-project:
  + Many to many
  + Represents association of assets with projects
* User-log:
  + One to many
  + User can have multiple log entries
* Asset-log
  + One to many
  + An asset can have multiple log entries

Attributes:

* User
  + User ID (primary key)
  + Username
  + Password
  + Other relevant user attributes
  + Role
* Asset:
  + Asset ID (primary key)
  + Title
  + Specific identifying attribute (as “asset” is a broad term)
* Asset type:
  + Type ID (primary key)
  + Type name
  + Specific identifying type (e.g. title, link, line number)
* Document:
  + Document ID (primary key)
  + Link to external file
* Project:
  + Project ID (primary key)
  + Project name
  + Other relevant project attributes
* Log:
  + Log ID (primary key)
  + Timestamp
  + Action (create, update, delete)
  + User ID (foreign key)
  + Asset ID (foreign key)

IMPORTANT

Additional attributes/entities to support the project need to be discussed (e.g. discussion boards or project and people i.e. associate assets to projects and people).