USERS

- username: VARCHAR, PRIMARY KEY, NOT NULL
- hash: VARCHAR, NOT NULL
- salt: VARCHAR, NOT NULL
- type: ENUM (resident, urban planner, urban developer)*

> * currently no difference between what an urban planner or urban developer
> can do, just keep the difference stored in the db to future proof the
> application in case of change in requirements

DOCUMENTS

- id: SERIAL, PRIMARY KEY, NOT NULL
- title: VARCHAR, NOT NULL,
- issuance date: DATE
- language: VARCHAR
- pages: NUMBER
- stakeholders: VARCHAR
- scale: VARCHAR (could be a number, but blueprints and text docs do not report scales, so we might keep it a generic varchar)
- description: VARCHAR
- type: ENUM(Informative doc, prescriptive doc, design doc, technical doc, material effect)
- coordinates: VARCHAR (or db native geo coordinates depending on implementation, or set of coordinates to "enclose" a sub area)
- last_modified_by: VARCHAR NOT NULL REFERENCES users(username) **

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``

> * "serial" is postgres syntax for auto incrementing integer
> ** probably not necessary to have this relationship

DOCUMENT LINKS

- link_id: SERIAL, PRIMARY KEY *
- doc_id1 NUMBER NOT NULL REFERENCES documents(id) ON DELETE CASCADE
- doc_id2 NUMBER NOT NULL REFERENCES documents(id) ON DELETE CASCADE
- link_type ENUM(direct, collateral, projection, update)
- created_at: TIMESTAMP DEFAULT CURRENT_TIMESTAMP

if we want to prevent duplicate links with the same type of connections with the same documents we also add
CREATE UNIQUE INDEX idx_unique_links ON document_links (document_id1, document_id2, link_type);

```
* having doc_id1 and doc_id2 together as primary keys is not enough because
two documents could be linked together multiple times, so reusing (doc_id1,
doc_id2) would violate the unique constraint needed for the key
```

FILES

- id SERIAL PRIMARY KEY,
- file_url VARCHAR(255) NOT NULL *
- uploaded_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP

```
* External storage URL or path of a folder in the backend
```

each row represents a single file

DOCUMENT_FILES

- doc_id: NUMBER REFERENCES documents(id) ON DELETE CASCADE,
- file_id: NUMBER REFERENCES files(id) ON DELETE CASCADE
- role: ENUM(original resource, attachment)
- PRIMARY KEY (document_id, file_id)

models n to n relationship between docs and files, also specifies the type of relationship (original resource or attachment)