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Proto Buffer

Document share application

Summary

- Project description

Project description

- Title

This project is named Proto Buffer. Proto Buffer is a reference to the Protocol Buffer, a serialization protocol created by Google in 2001. Protocol Buffer is an alternative to RPC (Remote Procedure Call).

- Theme

This project enable users to share documents. The documents can be books, comics, mangas, magazines, etc.

- Scope

This project enable users to share documents in secure and free way.

The goal is to develop a platform and populate with data through concepts of scraper and crawler. A future goal is to implement a P2P system, that has a encrypted connection, no logs and cache.

- Programming language, editor, platform, database and graphical user interfaces

The programming language is C++. C++ was chose based on the multiple paradigms, multiple frameworks, fast and efficient development.

The editor is Visual Studio Code, along with multiple extensions that enables a complete development environment.

The platform is Linux. Linux is a system widely adopted by developers and has a concise base to development, if compared to other systems.

The database is Mongo DB. Mongo DB has a server and driver to C++, that is well documented and updated. Mongo DB linces can be found on Mongo DB licenses page. The SGB used to connect to the database is Robo 3T.

The graphical user interfaces considered are: QT, Nuklear, Imgui and Nana. The choose will be done after the implementation of the project' basis.

- Motivation

From an Anarcho-capitalism perspective, the intellectual property doesn't exist, because intellectual property its not scarce. One person can read a PDF file at the same time that another person reads the same PDF file, but a person can't use a physical object at the same time that another person, because this goes against the physic laws.

The state architecture monopolizes all the things with autoral rights and patents, but this doesn't cause the success of authors. Their hard work and value perception of the market by its consumers is what truly gives 'value' to the product and return profit to the authors.

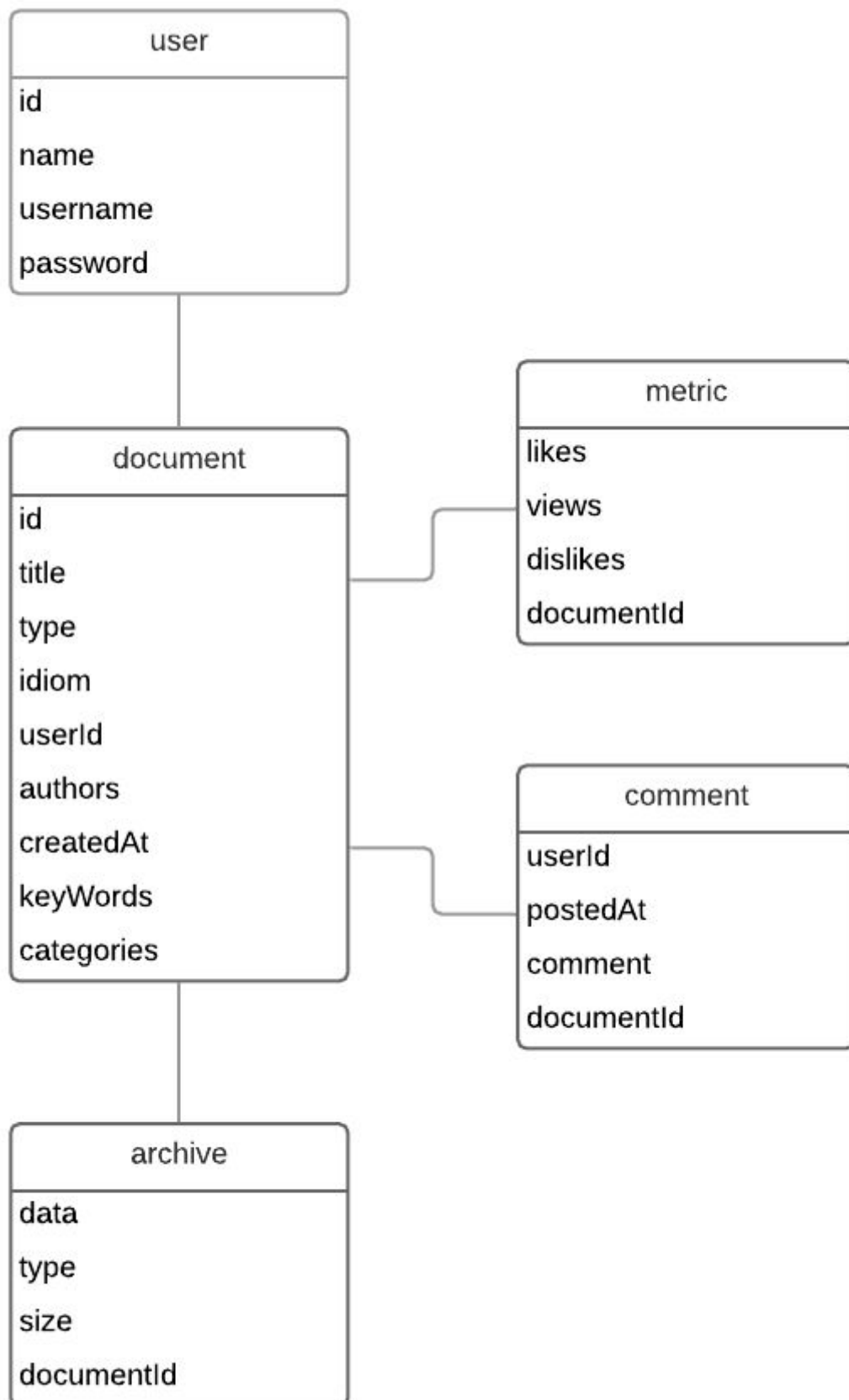
An user can download every existent TV show via Torrent, but the majority people choose to pay for services like Netflix, HBO GO, Hulu, Amazon Prime, etc; because they see the practicality in these services. The same goes to the Kindle, Google Books, Packt, Humble Bundle and other book services. If no one pays for the books of an author, this author probably will not have the incentive to produce more books, but its previous productions probably do not have a visible or truly value, once no one wants to contribute to.

Some platforms like Passei Direto and Scribd, enables users to share documents, but these platforms remove the download option and restring the read of the content sent by other users if a payment is not realized. To go against this this platforms its proposed.

- Screens

This project will contain the following screens: welcome, user registration, user login, user profile update, document upload, user document list, document search, document view and document update.

- Model



- Classes

