数据库第一次大作业

数据库设计

构建了三个 collection：users、equipments、market 分别保存了用户，用户箱子中每个装备的信息，和市场中装备的信息。

文档结构如下：

users：

```
{
        "_id" : ObjectId("5f8cdc9eedbf72c5c277614e"),
        "username" : "cxz",
        "password_hash" : "pbkdf2:sha256:150000$cHgMwmV4$07b50924c6c
a",
        "armor_ids" : [
                {
                        "_id" : "5f8cdc9eedbf72c5c2776150"
                },
                {
                        "_id" : "5f8cdc9eedbf72c5c2776151"
                }
        ],
        "weapon_id" : "5f8cdc9eedbf72c5c277614f",
        "items_ids" : [
                {
                        "_id" : "5f8ce9faa59aef5a161a9288"
                },
                {
                        "_id" : "5f8ce9faa59aef5a161a9286"
                }
        ],
        "gold" : 2
```

equipments：

```
{
        "_id" : ObjectId("5f8f80e4aecdf2ee49db7b80"),
        "name" : "吸血鬼头盔",
        "type" : "armor",
        "defense" : 12,
        "owner_id" : "5f7fca114720efd693abb4ac",
        "rare" : 2
}
{
        "_id" : ObjectId("5f9512516bf44448f8c9101d"),
        "name" : "丛云",
        "type" : "weapon",
        "attack" : 12,
        "owner_id" : "5f7fca114720efd693abb4ac",
        "rare" : 2
}
```

market:

```
{
        "_id" : ObjectId("5f8ce9faa59aef5a161a9289"),
        "name" : "米兰头盔",
        "type" : "armor",
        "defense" : 6,
        "owner_id" : "5f7fca114720efd693abb4ac",
        "rare" : 1,
        "prize" : "10"
}
{
        "_id" : ObjectId("5f9511e56bf44448f8c9101c"),
        "name" : "打刀",
        "type" : "weapon",
        "attack" : 30,
        "owner_id" : "5f7fca114720efd693abb4ac",
        "rare" : 3,
        "prize" : "20"
}
```

为用户_id, username 构建了索引, 为装备的_id 构建了索引。

功能实现

用的 flask_pymongo 库, 利用文档间的冗余进行交互, 比如我要某个 id 的宝物的数据, 就可以输入 127.0.0.1:5000/equipment/id 来查看。

作业要求的功能详见视频。