Design: Database

INVENTORY MANAGEMENT SYSTEM FOR MIDSTATES EQUIPMENT & SUPPPLY

Billie Muzzy

Design: Database

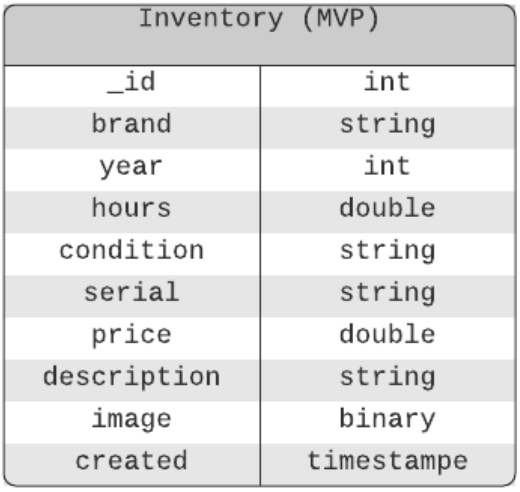
DATABASE TECHNOLOGY

The database technology that I am using is Mongo. Mongo is a NoSQL database. I went with MongoDB because of its flexibility with structuring data, easy scaling, and speed.

DATA MODELING

INVENTORY

UML



Inventory (MVP)	
_id	int
brand	string
year	int
hours	double
condition	string
serial	string
price	double
description	string
image	binary
created	timestampe

Example JSON Document


```
{
  "_id": {
    "$oid": "5f04b2c276c77bbbdcb16730
"
  },
  "brand": "New Brand",
  "year": 2020,
  "condition": "new",
  "serial": "12345",
  "price": 20.25,
  "description": "Some description",
  "image": {
    "$binary": "",
    "$type": "0"
  },
  "createdDate": {
    "$date": "2020-07-
07T17:37:06.924Z"
  },
  "__v": 0
}
```


The role of the inventory document is to allow Midstates to create, read, update, and delete their inventory items for their application.

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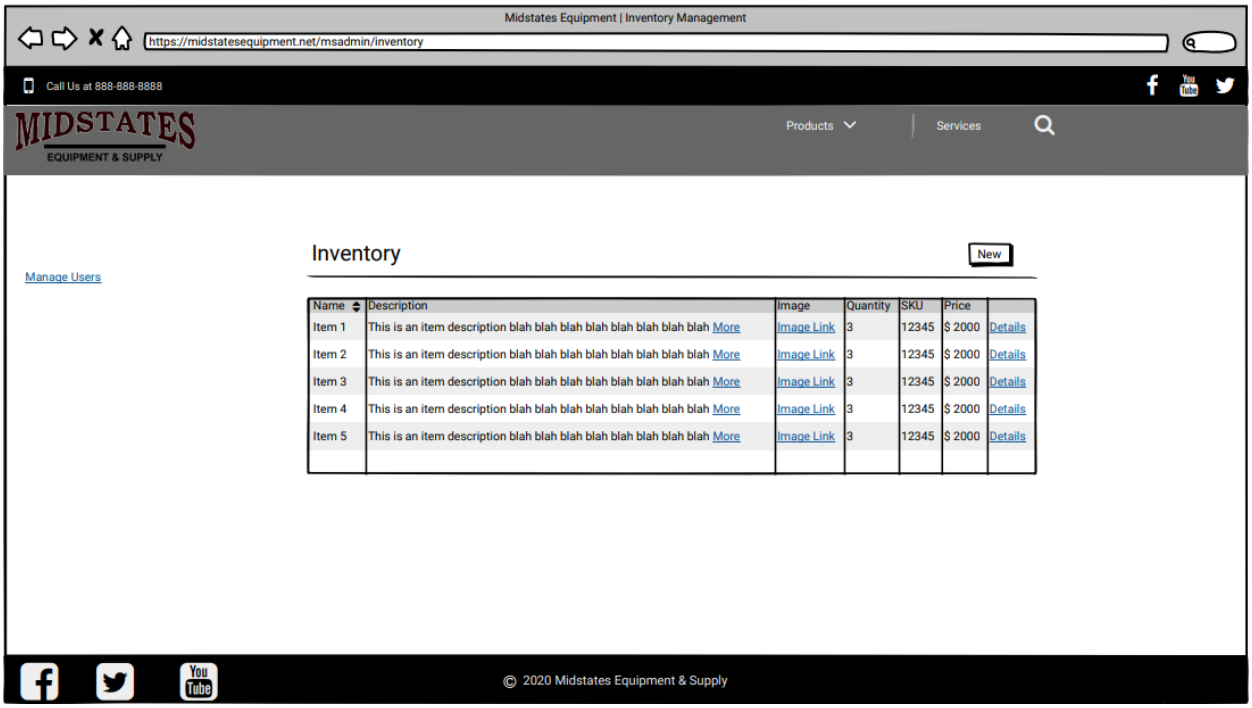
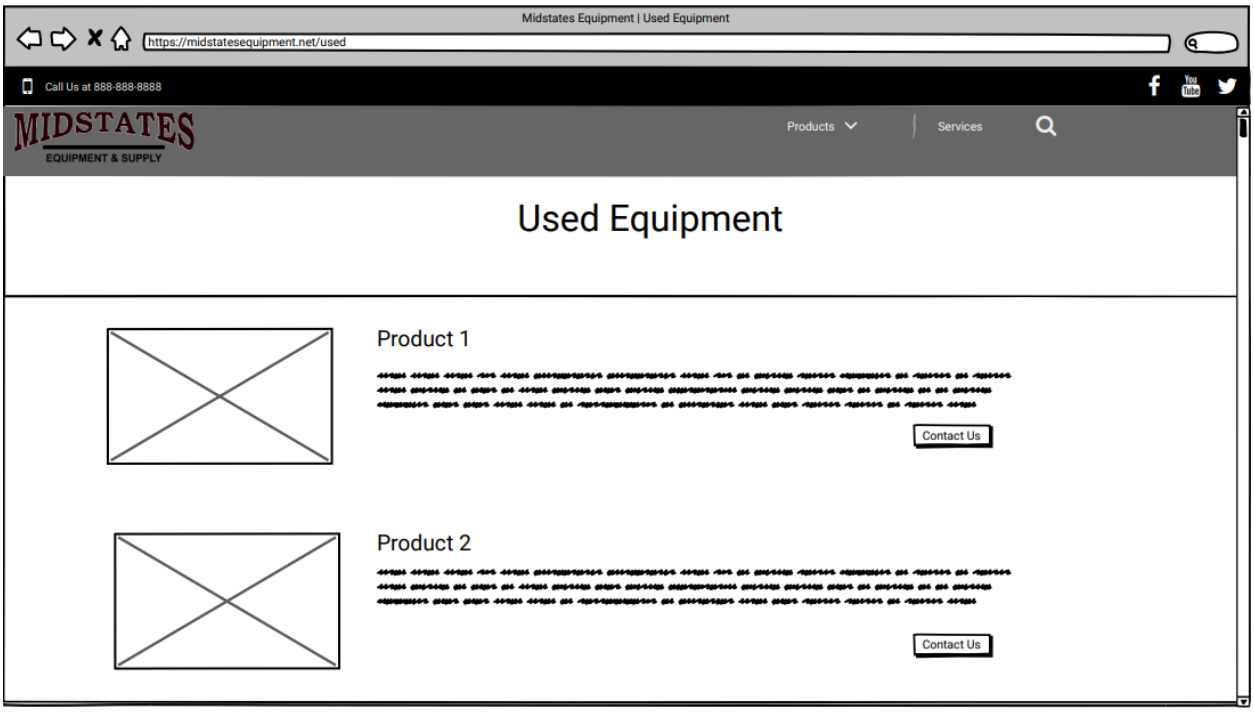
The user will manage inventory items on the back end



The items will update on the front end



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USERS

UML

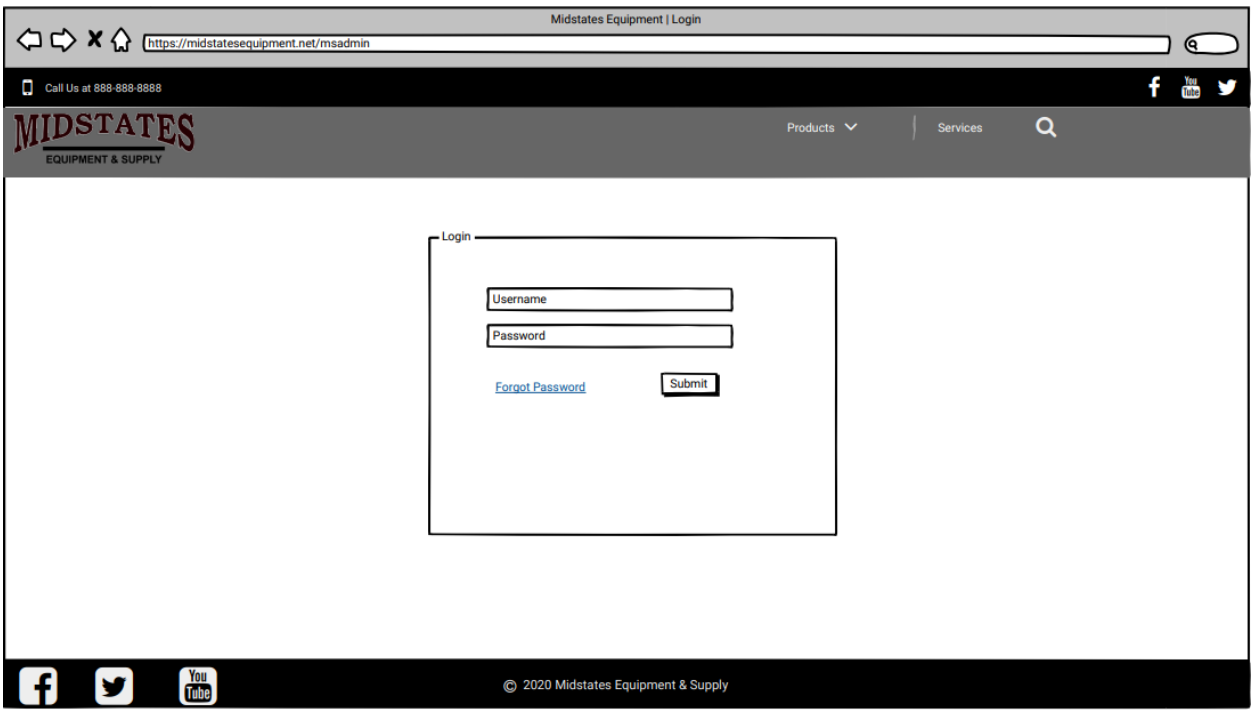
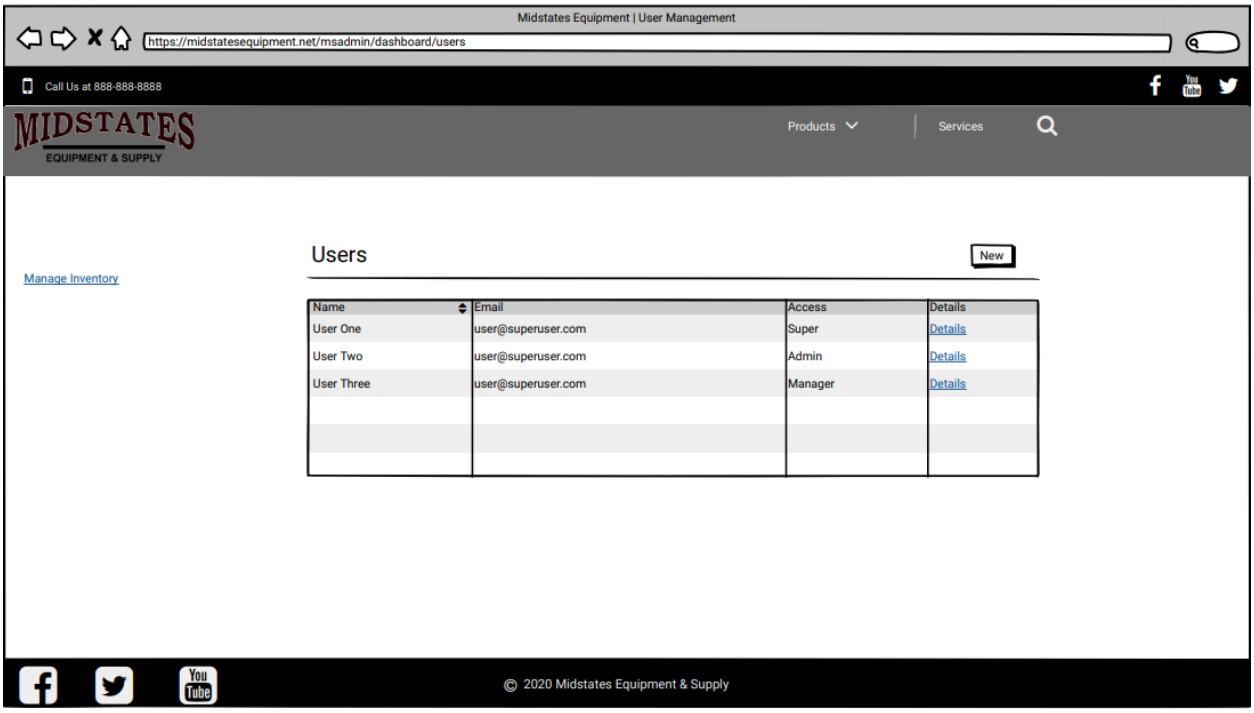
Users (MVP)	
_id	int
firstName	string
lastName	int
email	double
accessLevel	string
createdDate	string
avatar	string

note - avatar is a stretch feature

Example JSON Document

```
{
  "_id": {
      "$oid": "5f04bded26b0a2a2749246a
e"
  },
  "firstName": "Atlas",
  "lastName": "Muzzy",
  "email": "atlas@meow.com",
  "accessLevel": "Super User",
  "createdDate": {
      "$date": "2020-07-
07T18:24:45.653Z"
  },
  "__v": 0,
  "avatar": "/path/to/image.jpg"
}
```

The role of the users document will be for managing the users for authentication/authorization. The users will employees of Midstates managing the application. The users will be managed by the Super Admin/User.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