Name: Ben Muzzy
Assignment: Design: Database
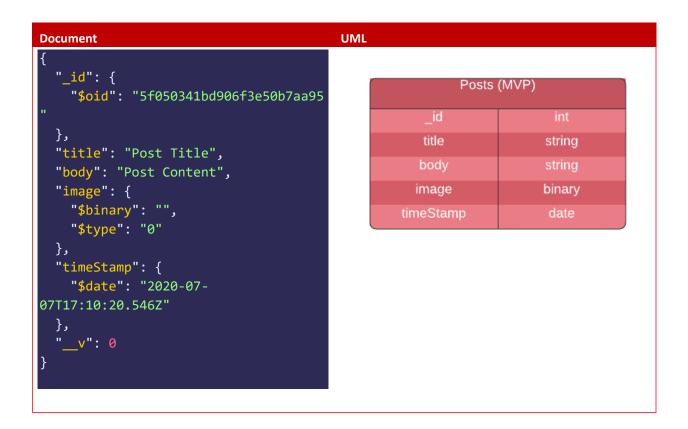
DATABASE DESIGN

TECHNOLOGY CHOICE

For my database I decided to go with a NoSQL database for a few reasons. First, my web app is going to have a lot of posts to it for review and tutorial articles. I looked at NoSQL databases and choose to go with MongoDB because on their site they mention how their database works well for content management and that's exactly what I need. Secondly, I choose them because I like how you have flexibility in how you structure your data. Thirdly, a lot of my content will be document based, so using a NoSQL database like MongoDB just makes sense.

I also hope to continue this project longer after completely my degree at Maryville, so as the amount of content in my web app grows I'll want a database that scales well and has lower scaling costs and MongoDB checks both of those boxes.

STRUCTURE

POSTS

Document	UML

```
{
  "_id": {
    "$oid": "5f050341bd906f3e50b7aa95"
  },
  "title": "Post Title",
  "body": "Post Content",
  "image": {
    "$binary": "",
    "$type": "0"
  },
  "timeStamp": {
    "$date": "2020-07-07T17:10:20.546Z"
  },
  "__v": 0
}
```

Posts (MVP)

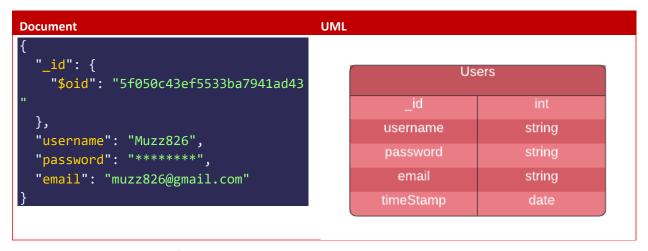| _id	int
title	string
body	string
image	binary
timeStamp	date

The posts document is needed to allow me to create, update, delete (CRUD) review and tutorial articles for the site. The posts will be in blog format, but for my MVP I do not plan to have comments on the posts. If I have time, I will be adding the ability for users to comment on articles written by me.

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USERS

Document	UML

```
{
  "_id": {
    "$oid": "5f050c43ef5533ba7941ad43"
  },
  "username": "Muzz826",
  "password": "********",
  "email": "muzz826@gmail.com"
}
```

Users	
_id	int
username	string
password	string
email	string
timeStamp	date

The users document will used for user account management, authentication, and authorization. A valid user account is required to view any data within the Muzz Tech Byte's web app.