Erin Cox

# Wallery Database Design

Wallery will utilize MongoDB to store its data. Only one collection is necessary for the data, which leaves no relationships. Users will interact with the database as follows:

- The AWS cognito-user-id and AWS s3-image-tag are saved when users upload an image
- 'Liking' an image will increment the saved images 'Likes'
- 'Flagging' an image will increment the saved images 'Flags'
- An image is marked as 'Purchased'

## Data Structures

### Image
Saved to the 'Images' collection

```
{
   UserID:string,
   ImageTag:string,
   Purchased:Boolean,
   Likes:integer,
   Flags:integer
}
```

The Image data structure will be used to retrieve images from AWS S3 using the ImageTag. The images will then be displayed on the gallery page, along with the number of 'likes' and 'flags' if present.

*Stretch Feature:*

- Save user-id, s3-image-tag, and purchase date upon user purchase

This information will be saved to the 'Purchases' collection as follows:

### Purchase

```
{
   UserID:string,
   ImageTag:string,
   Date:date
}
```

Purchase information will not be used by the UI and is for business information only.