SW Engineering CSC648/848 Spring 2020
Gator Media

Team Number 5

Ahmad Moussalli (Team Lead) amoussalli@mail.sfsu.edu

Felipe Carmona - Frontend Team Lead

Pak Lik Siu - Backend Team Lead

Viral Amin - Github Master

Olivia Wissig - Frontend Team Member

Nicole Bernardo - Frontend Team Member

Milestone 2

History table: V 1.0

1.Functional Requirements - prioritized

Grouped by Priority
Priority 1:

    1.1 Users are able to reach the media store and browse the front page without any errors.

    1.2 Users able to Register and Sign in for the Gator media store.

    1.3 Users are able to download media.

    1.4 Users are able to post items to sell.

Priority 2:

    2.1 Users are able to search for content on the website.

    2.2 Messaging functionality from buyer to seller.

    2.3 Seller is able to post a description with the media item.

Priority 3:

    3.1 User able to see mini-image (thumbnail) of the media.

    3.2 User able to post comments on the contents.

Grouped by Type of User:
Unregistered:

    1.1 Users are able to reach the media store and browse the front page without any issues.

    1.2 Users are able to Register/Sign In for the Gator media store.

    2.1 Users are able to search the contents of the website.

    3.1 Able to see mini-image (thumbnail) of the media.

Registered:

    1.1 Users are able to reach the media store and browse the front page without any issues.

    1.2 Users able to Register/Sign In for the Gator media store.

    1.3 Users are able to download media.

    1.4 Users are able to post items to sell.

    2.1 Users are able to search for content on the website.

    2.2 Messaging functionality from buyer to seller.

    2.3 Seller is able to post a description with the media item.

    3.1 User able to see mini-image (thumbnail) of the media.

    3.2 User able to post comments on the contents.

Admin:

    0.0 Being able to access the database where admins can approve and or reject the media content that is posted.

    0.1 Being able to query the data of the whole site.

2. List of main data items and entities

Table: (from M1 Revised)

    User:
1. Holds all the registration information of users.
2. Determine the privileges/accessibility of different types of users.

    Registered User:
1. Holds all the registration information of users.
2. Determine the privileges/accessibility of different types of users.
3. Each user can own multiple items.
4. Holds logs on the user's purchased items.

    Non-Registered User:
1. Non registered user visitor id.

    Administrator :
1. Holds information on all administrators.
2. Able to approve/decline items from a pending list.

    Pending Media Items:
1. Holds all the items which are awaiting administrative approval.

    Media Items :
1. Holds all the information of each media item.
2. Each media item can only have one owner/user.
3. Holds the address of the actual items.

    Media Categories:
1. Holds each possible category and the pointers to the referenced items.

    Media item data example:
1. id: 1212
2. name: beach_view
3. type: PNG
4. path: /store/media
5. owner: user.id
6. isFree: false
7. price: null

Media Categories

CID: int
Category: char(255)

Media Items

ItemID: int
Itemname : char(255)
ItemAddress: char(255)
UID: int
PostDate: datetime
Category : char(255)

Users

UID: int
Username : char(255)
Password: char(255)
Email: char(255)
CreateDate: datetime
IsAdmin: Boolean

Pending Media Items

PItemID: int
CreateDate: datetime
ItemId: int
ApprovalState : Boolean

Administrators

AID: int
UID: int

Approve/Decline

3. UI Mockups and Storyboards

Registered User:

Kevin, who is already a registered user and is signed in, decides to visit the Gator media homepage. Kevin then decides to browse media content and clicks on Trees which are on the home page.
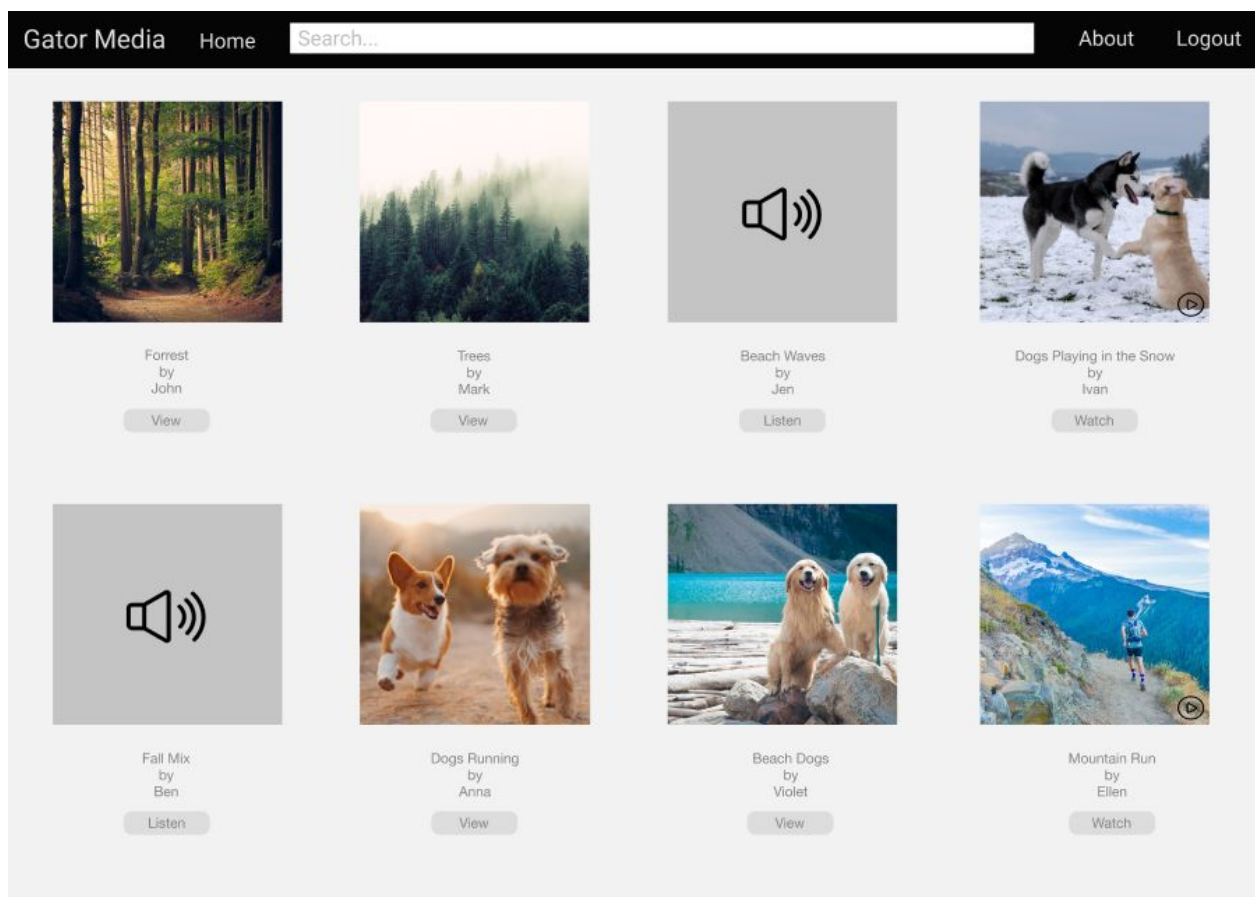
Kevin then clicks on the thumbnail of Trees in order to view the image and is shown the image with a contact option to purchase.
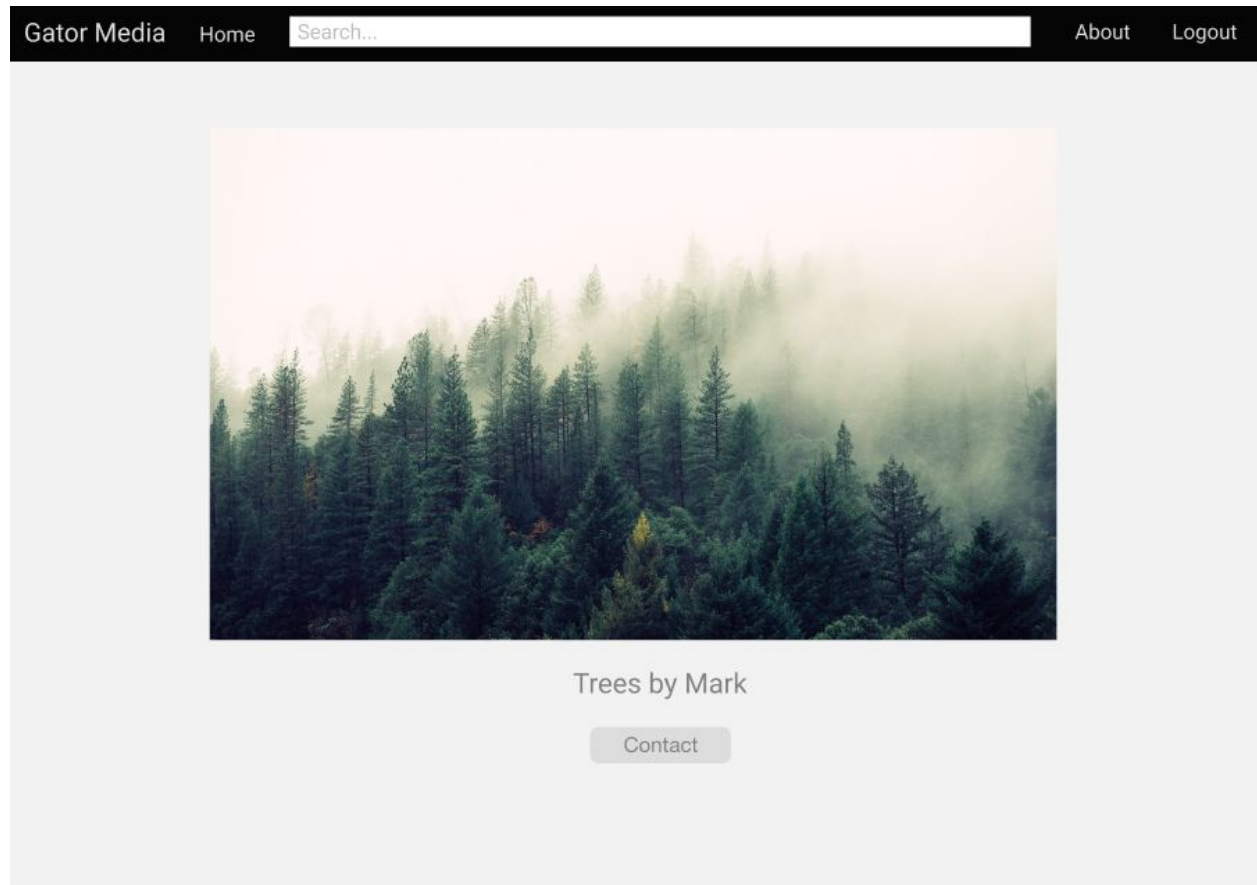
Kevin, decides to keep browsing for media content and is shown free media content in the form of video and is given a download option if he so chooses to download it.

Non-Registered:

Crystal is looking for a site in which her students can sell media content on. Crystal decides to
visit Gator Media in order to check it out.
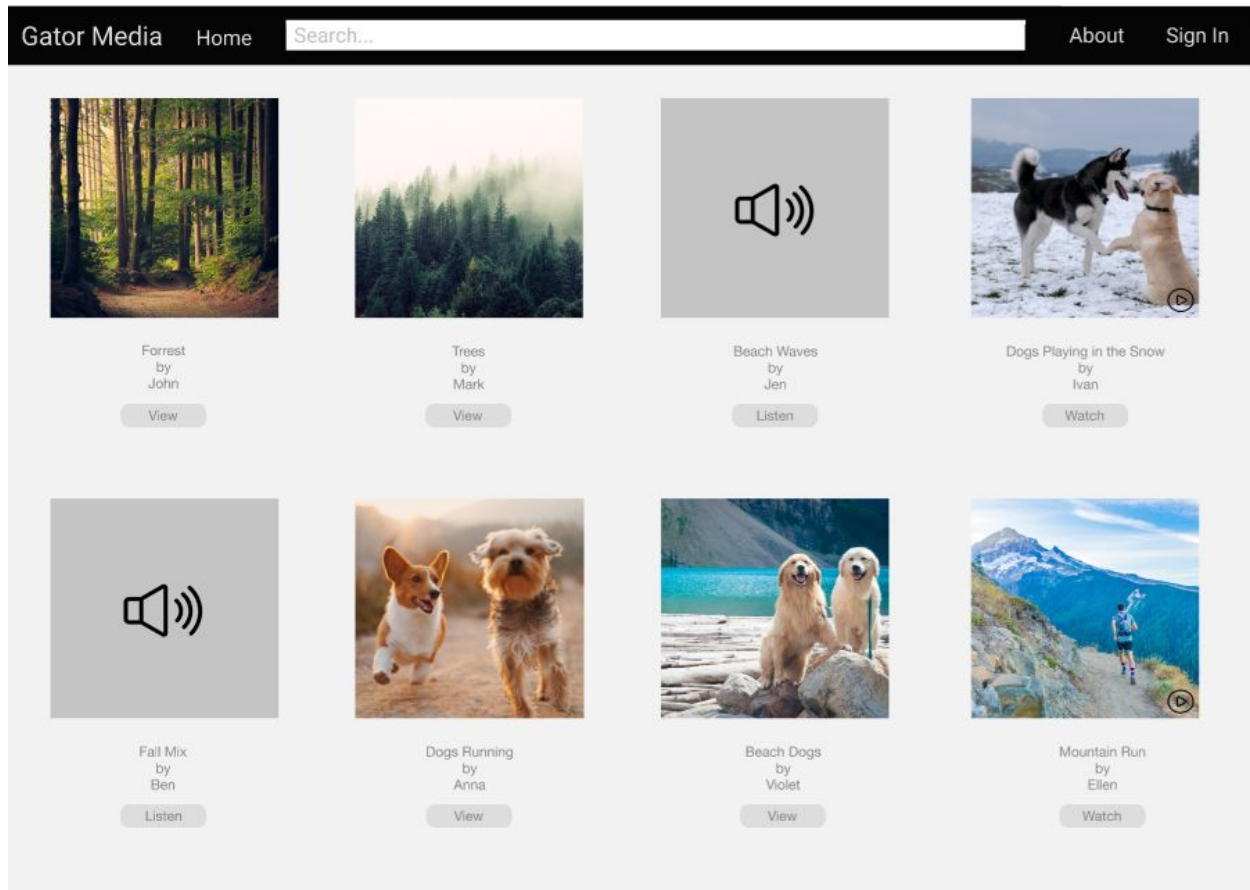
Crystal enjoys our site and finds it easy to use, so she decides to sign up. Crystal clicks on the

Sign In and is prompted with a Sign In / Register option.

Crystal wants to register, clicks on the option and is prompted with information in order to

register to Gator Media.

Admin:

Kyle an Admin for Gator Media logs in to his administrator account and is shown his

Administrator settings.

Kyle being an Admin wants to check for current pending posts that need to either be accepted and or rejected and decides to go to the page where this is shown.
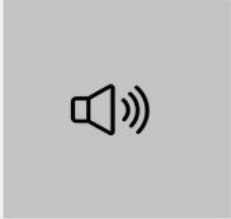
Kyle then clicks on posts that need to be accepted and or rejected and then decides whether or not the media content being posted is appropriate for Gator Media.
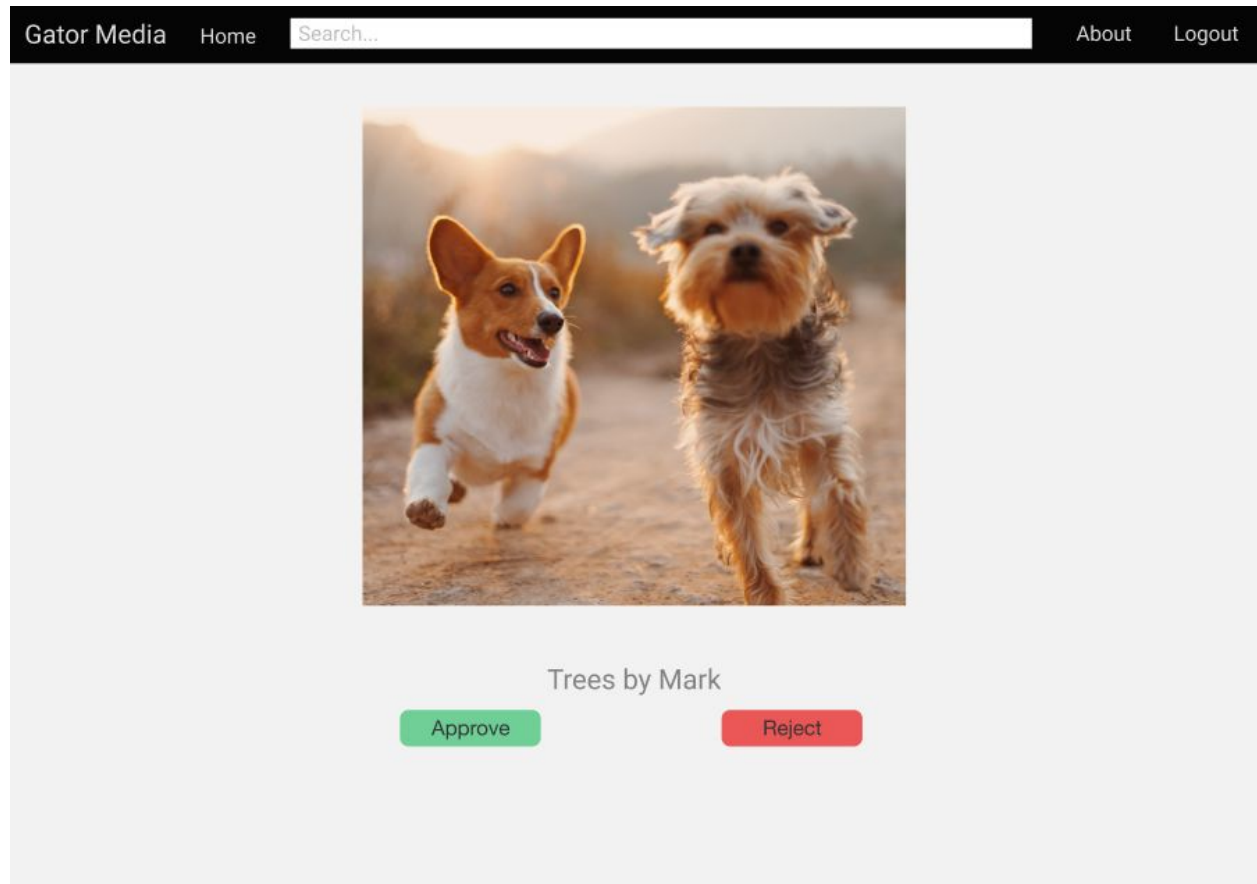
Kyle who is also a main Administrator is able to view a Manage Administrators page where he is able to manage settings for each admin.

4. High level Architecture, Database Organization
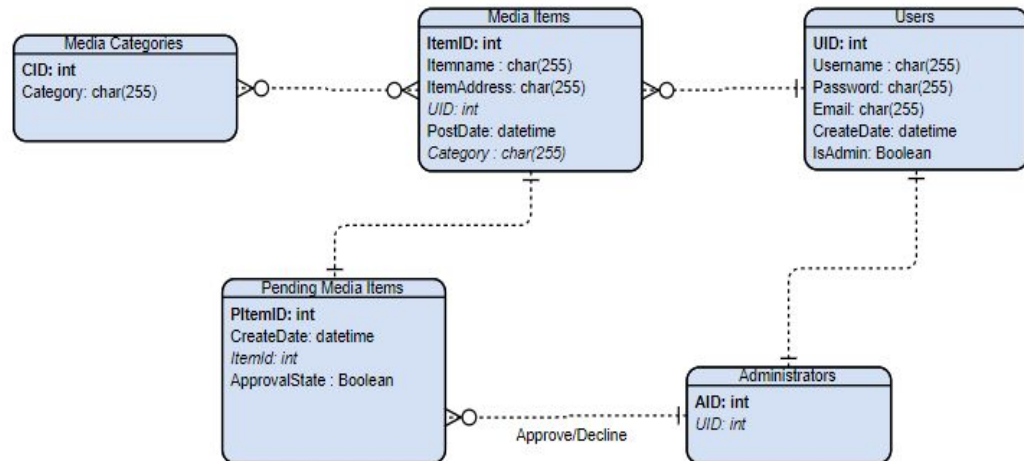
a. Media storage: Keep the video and audio in the file system, but store the file system address link in the database system/ MySQL.
b. For the search implementation we should be using the raw SQL language at first, but we will be using module and pg-promise to keep track/output the filter result.
c. No external API using for now.
d. For the non-trivial algorithm, we should have a different category of sort for the media, but sorting "created date" in descending order sequences by default.

5. High Level UML Diagram

Class Diagram:

User
userID: BigInt userName: String
login(String username, String password): void registration(dictionary) : void accountDetails() : dictionary updateAccountDetails(dictionary) : void logout() : void

mediaItem
mediaID: BigInt mediaType: String title: String description: String mediaURL: string
addMedia(dictionary) : void removeMedia(BigInt mediaID) : void getAllMediaItems() : dictionary getOneMediaItem(BigInt mediaID) : dictionary

0..*   0..*

0..*

0..*

Cart
userID: BigInt mediaID: BigInt createdDate: Date
addToCart() : dictionary removeFromCart(BigInt mediaID) : void cartStatus() : Enum (checkout, pending checkout)

Checkout
orderID: BigInt orderDate: Date
allOrderDetails() : dictionary oneOrderDetails(BigInt orderID) : dictionary paymentValidate(BigInt orderID) : Enum (true, false)

UML Component and deployment diagrams:
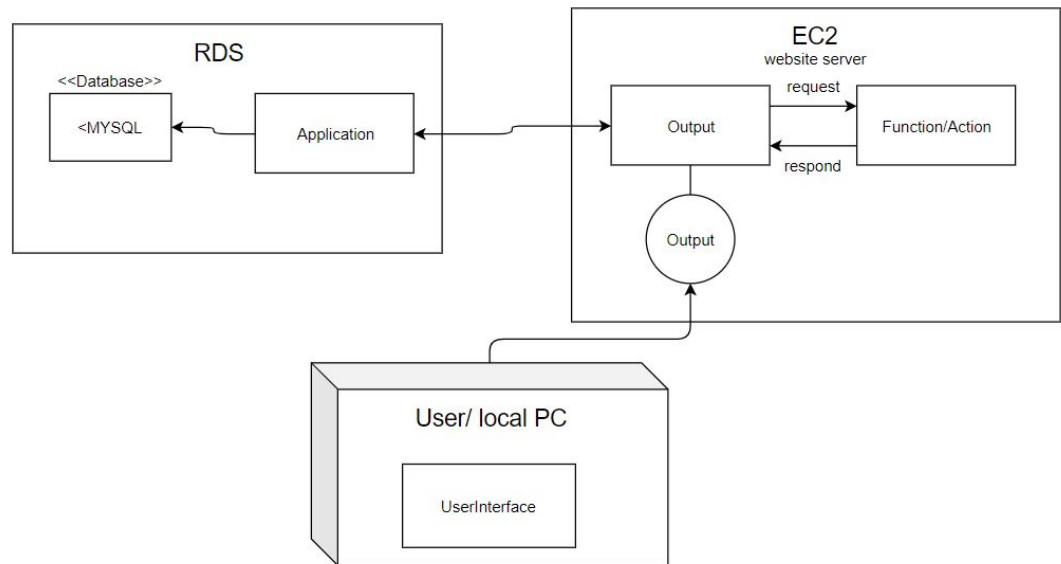
6. Identify actual key risks for your project at this time

- Schedule - If the shelter-in-place advisories continue for our region, we may experience some delays in some services which may impact our progress. It is hard to foresee how this situation will change, and how it may affect any dependencies our website relies on. To address this issue, we will have to be flexible with our current situation and try to finish milestones in advance therefore we have time to address and resolve any issues we run into.

- Technical - With many different users, there is a high possibility our users will all have different operating systems as well as varying browsers which may affect the design and format of our website. We are using effective measures to make sure our website runs correctly and properly on all popular platforms. We will be testing the website ourselves on different operating systems, such as MacOS and Windows, as well as different browsers, like Safari and Microsoft Edge.

- Teamwork - The shelter-in-place advisories taking place around the world will affect our ability to meet face-to-face and interact in person. At times, it can be easier to resolve issues and review features when all team members are in the same room. Our response to this involves meeting online through zoom video conference calls and maintaining constant communication through slack.

- Legal/consent - since the website is designed around users uploading content on their own, it would be hard to catch every infringement before anyone has viewed or

downloaded it. To manage and catch these posts, we have added administrators and given them the ability to approve or deny posts from users. When a user uploads a post, it is filtered into the pending posts where administrators can approve a post or deny it. This way, it has a chance to be reviewed before becoming live to the public.

7. Project management

We decided to use Trello in one of our first meetings as a group, and it has proven to be useful for all members in our group. We are able to divide the work evenly, and see the work that has been done versus the work that needs to be completed. Whenever we have been assigned a new milestone, we have set up a video conference call and divided the work based on members' skill levels and comfort levels.

For future tasks, we plan on following the same process of dividing the assignment into individual tasks. We will continue to use Trello to keep track of which members are responsible for certain tasks which promotes accountability. Of course we are always willing to help others with their task if needed. We utilize Google Drive to edit our documents, which allows us to collaborate much easier and seamlessly merge all our individual tasks into one.