Software Engineering Summer 2023

Milestone 2

Art Villa

9/3/2023

Kyle Humphrey

History Table

Documentation Version	Date of Submission
M2V1	9/3/23

Table of Contents

1. **Executive Summary**

Art Villa is a simple web application designed to provide an online social media network for people who want to display their artwork. Art Villa encourages public posting of artwork, thus users who register have their accounts public by default. Registered users can interact with each other's posts and purchase artwork from one another. Additionally art contests are held each month, where the winner can receive a monetary prize. Art Villa is a website that allows artists to have an engaging social media experience whilst showcasing and selling their artwork at the same time.

2. <u>Use Cases</u>

<u>Use Case Descriptions</u>

1) **Users**

   a) **Casual Unregistered User (Bob)**

   Bob liked to view artwork for inspiration for his projects. Bob can search through Art Villa and find posted artwork that he enjoys viewing.

   b) **Casual Registered User (James)**

   James loves to showcase his artwork and view artwork from other people online. James can register for an account, go to the posting page, post his artwork, and watch the interactions on his post. Additionally, James can view other users' posts and give a Like or Comment.

   c) **Selling Registered User (Maria)**

   Maria wants to showcase her artwork and raise some money for her career. Maria can register for an account, go to the posting page, set her artwork to be sold, post her artwork, wait for a buyer to purchase her item, then message the buyer on how they would want the item delivered, and then deliver it.

   d) **Buying Registered User (Erica)**

   Erica loves buying art for her art collections. Erica can register for an account, view a sellable art post, purchase it, then message the seller on how they would want the item to be delivered, and then receive it.

e) **Art Competitor Registered User (Patricia)**

Patricia is a very competitive artist and winning a public contest gives her a special thrill. She can register for an account, and if an art contest is open, go to a contest posting page, pay a contest fee, enter an artwork to be posted in the contest, wait for the contest results, and view the results of the contest and her contest post.

f) **Dispute Reporting Registered User (Ocelia)**

Ocelia sees another user is harassing her, engaging in underhanded/fraudulent practices, or is posting inappropriate content, she can contact the site admins to mention her dispute. The site admins would investigate the matter, possibly inquire more from Ocelia about the situation, and ultimately resolve the issue.

2) **Admins**

a) **Contest Creator Admin (Regina)**

Regina's role in the company is to create art contests. Regina's account is created as a super user within the system. Regina can log in, go to the contest creating page, create a post with a picture and description, and post it.

b) **Contest Judge Admin (Wesley)**

Wesley's role in the company is to manage art contests. Wesley's account is created as a super user within the system. Wesley can log in, go to the contest viewing page, view the latest contest, view the posts of each entered artwork, and select a winner.

c) **Dispute Admin (Randall)**

Randall sees a contact message from a registered user about a dispute. Randall's account is created as a super user within the system. Randall can log in, inquire more about the dispute, investigate all parties of the dispute, and resolve the dispute by a warning, correction, and/or termination.
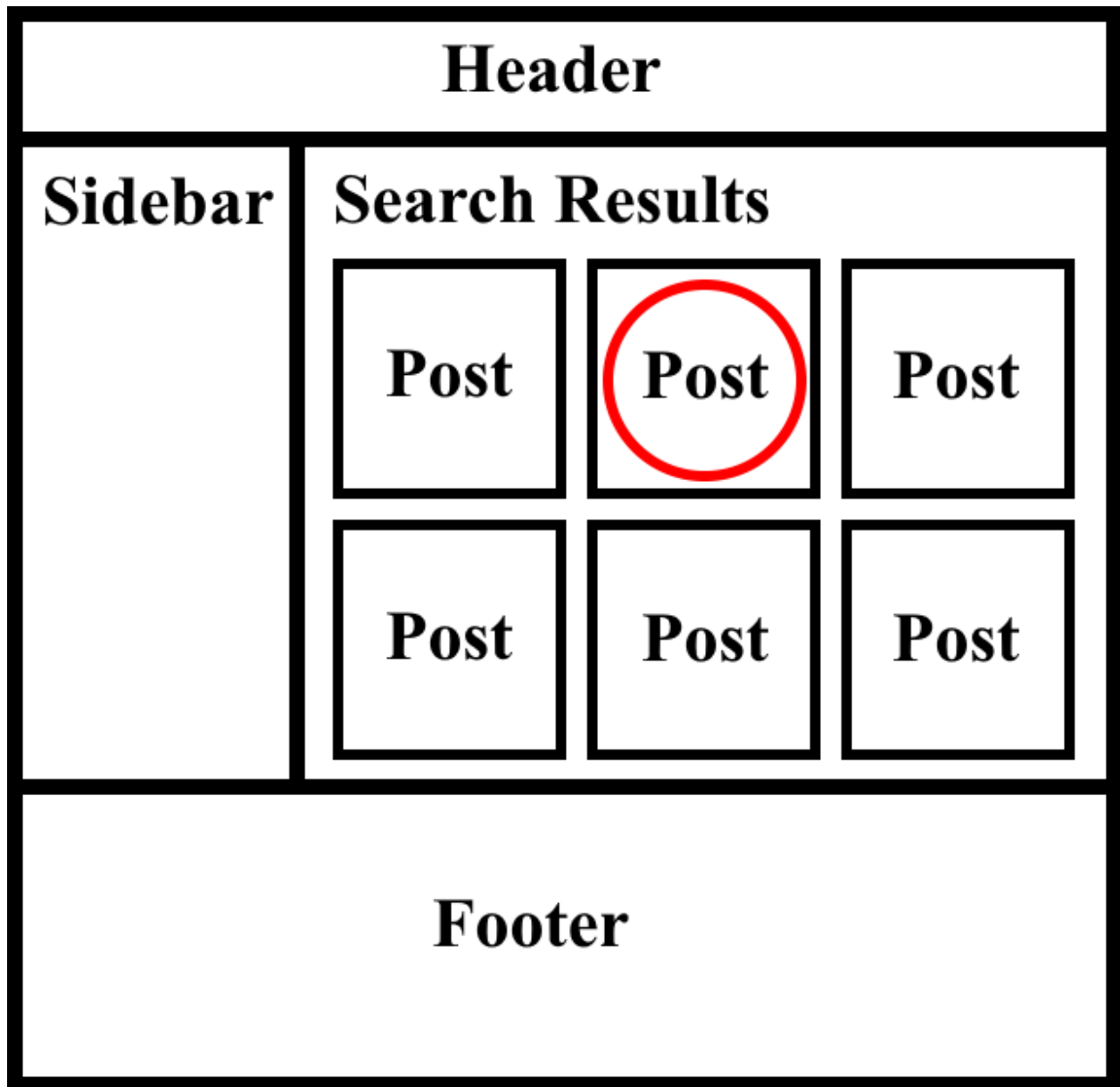
Use Case Page Diagrams

Use Case Page #1-1

Bob arrives at the Home Page and uses the Search Bar to search for a post he likes.

Logo	Search		Login	Sign Up

Content Types	Popular Posts		
	Post	Post	Post
Genres	Post	Post	Post
	Post	Post	Post
	Post	Post	Post

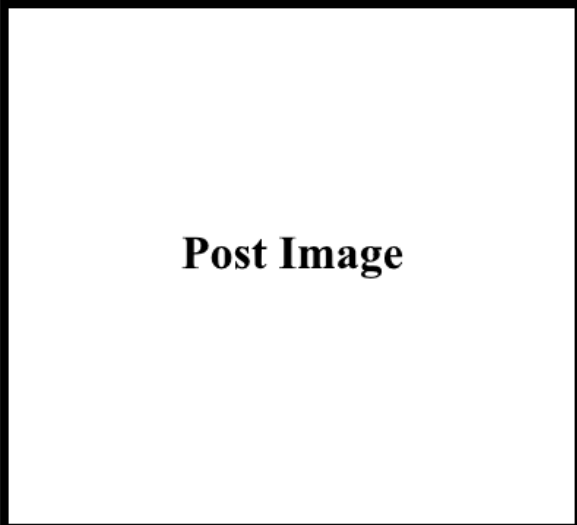| Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

<u>**Use Case Page #1-2**</u>

Bob clicks on a post he likes.

Use Case Page #1-3

Bob enjoys viewing a post from the website.

Header

Title

Related Posts

Post Image

| Related Post |

| Related Post |

| Related Post |

| Related Post |

| Like | Comment |

Post Statistics
Author
Description

| Related Post |

Comments

| Author | Comment Text |
| Author | Comment Text |

| Related Post |

| Related Post |

Footer

James would like to sign up to register for an account.

Logo	Search		Login	Sign Up

Content Types

Popular Posts

Post	Post	Post
Post	Post	Post
Post	Post	Post
Post	Post	Post

Genres

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

James fill out his information and registers his account.

Use Case #2-3

James is given an email verification prompt for him to confirm his email to use his account.

Use Case Page #2-4

James goes to his email and clicks a link to verify his account. He is redirected back to his logged in account home page with an email verification success message. James clicks his account logo icon.

Logo	Search		Account Logo

Content Types

Email Verification Success Message

Popular Posts

Genres

Post	Post	Post
Post	Post	Post
Post	Post	Post

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

James selects the Upload option to upload a new post.

Logo	Search		Account Logo

Content Types

Email Succe

Account
My Profile Page
My Posts
My Cart
My Offers
My Messages
My Transactions
My Contests
Upload

Popular P

Genres

Post

Post **Post** **Post**

Post **Post** **Post**

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

Use Case Page #2-6

James enters the information for his post and uploads it. James disallows commissioning for his post.

<u>**Use Case Page #2-7**</u>

James can view his post statistics and edit his post.

<u>Use Case Page #3-1</u>

Maria arrives at the Home Page and logs in.

Logo	Search		Login	Sign Up

Content Types

Genres

Popular Posts

Post	Post	Post
Post	Post	Post
Post	Post	Post
Post	Post	Post

Logo

About   Privacy Policy

Contact   Copyright Policy

T.O.S.   F.A.Q.

Use Case Page #3-2

Maria enters her information and logs into her account.

Use Case Page #3-3

Maria clicks on her account logo.

Logo	Search		Account Logo

Content Types

Popular Posts

Post	Post	Post
Post	Post	Post
Post	Post	Post
Post	Post	Post

Genres

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

<u>**Use Case Page #3-4**</u>

Maria chooses to upload a post.

Logo	Search		Account Logo

Content Types	Popular	Account My Profile Page My Posts My Cart My Commissions My Messages My Transactions My Contests Upload

Post

Genres

Post

Post	Post	Post

Post	Post	Post

Logo	About Contact T.O.S.	Privacy Policy Copyright Policy F.A.Q.

Use Case Page #3-5

Maria uploads a new post while setting the commissioning to be enabled at a price.

Use Case Page #3-6

Maria has not set up her payment info yet. She is prompted to set it up. She enters her

information and registers her payment info.

Use Case Page #3-7

Maria can view her post with the price.

Header	
Title [Edit]	**Related Posts**
Post Image	Related Post
	Related Post
	Related Post
	Related Post
Like | Comment	
Post Statistics **Price**	Related Post
Author	
Description	
Comments	Related Post
Author | Comment Text	
Author | Comment Text	Related Post
Footer	

<u>Use Case Page #3-8</u>

Eventually people purchase the artwork of her post. She goes to "My Commissions".

Logo	Search		Account Logo

Content Types

Popular

Account
My Profile Page
My Posts
My Cart
My Commissions ②
My Messages
My Transactions
My Contests
Upload

Post

Genres

Post

Post

Post

Post

Post

Post

Post

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

She chooses to message one of her buyers.

Logo	Search		Account Logo

My Commissions

| User Image | **Username** | | **Price** |
| | **Post Title** | Message | Resolve |

| User Image | **Username** | | **Price** |
| | **Post Title** | Message | Resolve |

| User Image | **Username** | | **Price** |
| | **Post Title** | Message | Reopen |

Proceed to Checkout

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #3-10

She then can converse with her buyer to set up how the artwork would be delivered.

Logo	Search		Account Logo

Messages

User Profile Image	**Username**	**...**

Message

Message

Message

Message Text	Send

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Once the exchange is done, she can resolve the commission, marking it as inactive.

Logo	Search		Account Logo

My Commissions

| User Image | **Username** **Post Title** | Message | Resolve | **Price** ! |

| User Image | **Username** **Post Title** | Message | Resolve | **Price** ! |

| User Image | **Username** **Post Title** | Message | Reopen | **Price** |

Proceed to Checkout

| Logo | About Contact T.O.S. | Privacy Policy Copyright Policy F.A.Q. |

Use Case Page #4-1

Erica is already a registered user.

Use Case Page #4-2

Erica logs in.

Use Case Page #4-3

Erica clicks a post she likes.

Logo	Search		Account Logo

Content Types

Genres

Popular Posts

Post	Post	Post
Post	Post	Post
Post	Post	Post
Post	Post	Post

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

Use Case Page #4-4

Erica decides to buy the artwork from that post.

Once she is finished buying all the artwork she wants, Erica goes to her account logo.

Logo	Search		Account Logo

Content Types

Popular Posts

Post	Post	Post

Genres

Post	Post	Post
Post	Post	Post
Post	Post	Post

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

Use Case Page #4-6

Erica goes to the "My Cart" page.

Logo	Search		Account Logo

Content Types	Popular	Account My Profile Page My Posts My Cart ③ My Commissions My Messages My Transactions My Contests Upload
	Post	
Genres	Post	
	Post	Post	Post
	Post	Post	Post

Logo	About Contact T.O.S.	Privacy Policy Copyright Policy F.A.Q.

Use Case Page #4-7

Erica confirms buying all her selected artwork.

Logo	Search		Account Logo

My Cart

Post Image	Post Title	
	Price	Remove Item

Post Image	Post Title	
	Price	Remove Item

Post Image	Post Title	
	Price	Remove Item

Proceed to Checkout

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Erica confirms the total purchase.

Logo	Search		Account Logo

Checkout

Payment Method

Price Sum

Checkout

Cart Items

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #4-9

After waiting for contact from the seller(s), Erica checks her account.

Logo	Search		**Account Logo**

Content Types	Checkout Success Message

Popular Posts

Post	Post	Post
Post	Post	Post
Post	Post	Post

Genres

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #4-10

Erica goes to her messages to respond to her seller.

Logo	Search		Account Logo

Content Types	Popular	Account My Profile Page My Posts My Cart My Commissions My Messages ① My Transactions My Contests Upload

Post

Post

Genres

Post	Post	Post
Post	Post	Post

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #4-11

Erica enters the chat with her seller.

Logo	Search		Account Logo

My Chats

Search		New Chat

User Image | Username ①

User Image | Username

User Image | Username

Proceed to Checkout

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #4-12

Erica arranges how she wants her artwork to be delivered.

| Logo | Search | | Account Logo |

Messages

| User Profile Image | **Username** | **...** |

> **Message**
>
> **Message**
>
> **Message**

| Message Text | Send |

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Patricia arrives at the home page and sees that a contest is active. She enters the contest.

Logo	Search		Account Logo

Content Types

Contest Title

Contest Image

Contest Description

Enter

Genres

Popular Posts

Post	Post	Post
Post	Post	Post

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

Patricia is prompted to enter a contest post. She cannot edit her post, upload another contest post, or make the post commissionable to others. She fills in the information and uploads the contest post.

Use Case Page #5-3

Patricia can see the post she entered for the contest.

Header

Title   **Related Posts**

Post Image

Related Post

Related Post

Related Post

Related Post

Like	Comment

Post Statistics

Author

Related Post

Contest Description

Description

Related Post

Comments

Author	Comment Text

Related Post

Footer

Use Case Page #5-4

If Patricia's post is a winner in the contest, her post will be commemorated with a ribbon and a description of her winning the contest in the contest description.

Use Case Page #6-1

Ocelia received messages from another user which are inappropriate. She clicks on the options button next to the username of the user she is in a chat with.

Logo	Search		Account Logo

Messages

User Profile Image	**Username**	⋯

> Message

> Message

> Message

Message Text	Send

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #6-2

Ocelia clicks the "Report" button to report the user.

Use Case Page #6-3

Ocelia writes a description of the inappropriate behavior and sends the report.

Logo

Report a User

Reported Username

Report Description

Submit Report

Footer

Ocelia receives a success message and waits for the conflict to be resolved.

Logo	Search		Account Logo

Content Types

Report Success Message

Popular Posts

Genres

Post	Post	Post
Post	Post	Post
Post	Post	Post

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

Use Case Page #7-1

Regina is an admin and heads over to the admin site.

Logo	Search		Account Logo

Content Types	Popular	**Admin Site**

Account
My Profile Page
My Posts
My Cart
My Commissions
My Messages
My Transactions
My Contests
Upload

Content Types

Popular

Post

Post

Genres

Post

Post

Post

Post

Post

Post

Logo

About
Contact
T.O.S.

Privacy Policy
Copyright Policy
F.A.Q.

Use Case Page #7-2

Regina chooses to make a new contest.

Regina fills in information for the contest and posts it.

Use Case Page #8-1

Wesley is an admin and goes to the admin site.

Logo	Search		Account Logo

Content Types	Popular	Admin Site

Content Types

Genres

Popular

Post

Post

Post   Post   Post

Post   Post   Post

Admin Site
Account
My Profile Page
My Posts
My Cart
My Commissions
My Messages
My Transactions
My Contests
Upload

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #8-2

Wesley sees an active contest to judged. He clicks on it.

Logo	Search		Account Logo

Contests ①
Reports
Contact Us
   Messages
Users

Contests

Search		Add

Type Icon — **Contest Title**

Type Icon — **Contest Title**

Type Icon — **Contest Title**

Type Icon — **Contest Title**

Type Icon — **Contest Title**

Type Icon — **Contest Title**

Logo	**About**	**Privacy Policy**
	Contact	**Copyright Policy**
	T.O.S.	**F.A.Q.**

Use Case Page #8-3

Wesley clicks on "View all Contest Posts".

Logo	Search		Account Logo

Contests
Reports
Contact Us
    Messages
Users

Contest Title

Contest Image

Contest Description

Search

View All Contest Posts

Type Icon	**Post Title** **Status**

Type Icon	**Post Title** **Status**

Type Icon	**Post Title** **Status**

Logo	**About** **Contact** **T.O.S.**	**Privacy Policy** **Copyright Policy** **F.A.Q.**

For each post, Wesley chooses to award it or navigate over to the next post.

Use Case Page #9-1

Randall is an admin and goes to the admin site.

Logo	Search		Account Logo

Content Types	Popular	Admin Site

Account
My Profile Page
My Posts
My Cart
My Commissions
My Messages
My Transactions
My Contests
Upload

Genres

Post

Post

Post   Post   Post

Post   Post   Post

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #9-2

Randall sees two reports. He clicks on the "Reports" option.

| Logo | Search | | Account Logo |

Contests
Reports ②
Contact Us
   Messages
Users

Contests

| Search | Add |

Type Icon	Contest Title
Type Icon	Contest Title
Type Icon	Contest Title
Type Icon	Contest Title
Type Icon	Contest Title
Type Icon	Contest Title

Logo

About	Privacy Policy
Contact	Copyright Policy
T.O.S.	F.A.Q.

Use Case Page #9-3

Randall sees the active reports and clicks on one.

Randall sees a report and views its chat.

Logo	

Report

Reporter Username
Reported Username

$\boxed{\text{View Chat}}$

Report Description

Footer

Use Case Page #9-5

Randall views the chat and decides that the reported user is guilty. He chooses to message the reported user.

Use Case Page #9-5

Randall gives the reported user a warning via message.

Logo	Search		Account Logo

Messages

User Profile Image	**Username**	**...**

Message

Message

Message

Message Text	Send

Logo	About	Privacy Policy
	Contact	Copyright Policy
	T.O.S.	F.A.Q.

Use Case Page #9-7

If the reported user does not heed this warning, Randall can go over to the "Users" tab in the

admin site and suspend or remove their account.

3. Data Structures and Entities

Data Structures

Cart Item- An item to be purchased.

Chat - A list of messages between two registered users.

Comment - A message in response to a post or another comment.

Commission - A purchase of artwork from a post.

Commissionable Post - A post which other users are able to purchase. A subclass of Post.

Contact Us Message - A private message sent from one registered user to the contact us

message list.

Contest - A competition of various contest posts where a winner is determined.

Contest Award - An award given to the winner of a contents.

Contest Post - A post to be entered in a contest. A subclass of Post.

Direct Message - A message from one registered user to another.

Like - An object indicating positivity towards a post.

Post - A public or semi public piece of content showcasing a message or artwork.

Report - A message describing inappropriate, prohibited, or unlawful activity from another user.

Transaction - A paid transaction between two registered users.

User - A user entering the website who has been registered.

Entities

Account - An account associated with a registered user.

Admin - A user who has been registered internally as an admin. A sub-entity of registered user.

Cart Item- An item to be purchased.

Chat - A list of messages between two registered users.

Comment - A message in response to a post or another comment.

Commission - A purchase of artwork from a post.

Commissionable Post - A post which other users are able to purchase. A subclass of Post.

Contact Us Message List - A list of all contact us messages.

Contact Us Message - A private message sent from one registered user to the contact us

message list. A sub-structure of message.

Contest - A competition of various contest posts where a winner is determined.

Contest Award - An award given to the winner of a contents.

Contest Post - A post to be entered in a contest.

Direct Message - A message from one registered user to another. A sub-structure of message.

Like - An object indicating positivity towards a post.

Message - A private message from one registered user.

Post - A public or semi public piece of content showcasing a message or artwork.

Post Transaction - A transaction involving a sellable post. A sub-structure of transaction.

Registered User - A user entering the website who has been registered.

Report - A message describing inappropriate, prohibited, or unlawful activity from another user.

Transaction - A paid transaction between two registered users.

Unregistered User - A user entering the website who is not registered.

4. Frontend Module Architecture

Main Frontend Folders

Common - Contains components subclassed or implemented by multiple other components.

Home - Contains components related to the Home Page.

Account - Contains components related to viewing and editing a user account.

Profile Page - Contains components related to viewing and editing a profile page.

Post - Contains components related to viewing, editing, creating, and deleting posts.

Cart - Contains components related to viewing, editing, and deleting cart items.

Commissions - Contains components related to viewing commissions.

Messages - Contains components related to viewing and creating messages.

Transactions - Contains components related to viewing transactions.

Contests - Contains components related to viewing, editing, and creating contests.

Contact Us - Contains components related to viewing and creating contact us messages.

Reports - Contains components related to viewing and creating reports.

Users - Contains components related to viewing users.

Entry Forms - Contains components for entry forms such as Login and Registration Forms.

Info - Contains static information forms.

Architecture Style

The frontend architecture is structured as follows. Lowercase elements are package folders. Capitalized elements with an extension ".js" are frontend component modules and are always children of package folders. Capitalized elements without an extension are frontend

components and are always children of frontend component modules. Elements within brackets

are frontend components that are implemented for its parent but declared elsewhere.

Frontend Module Architecture

common
- **datarecords**
  - **cartitems**
    - **ViewCartItemsContainer.js**
      - **ViewCartItemsContainer**
  - **chats**
    - **ViewChatsContainer.js**
      - **ViewChatsContainer**
  - **comissions**
    - **ViewComissionsContainer.js**
      - **ViewComissionsContainer**
  - **contactusmessages**
    - **ViewContactUsMessagesContainer.js**
      - **ViewContactUsMessagesContainer**
  - **contests**
    - **ViewContestsContainer.js**
      - **ViewContestsContainer**
    - **ViewUserContestsContainer.js**
      - **ViewUserContestsContainer**
  - **posts**
    - **ViewPostsContainer.js**
      - **ViewPostsContainer**
  - **reports**
    - **ViewReportsContainer.js**
      - **ViewReportsContainer**
  - **transactions**
    - **ViewTransactionsContainer.js**
      - **ViewTransactionsContainer**
  - **users**
    - **ViewUsersContainer.js**

ViewUsersContainer

ViewItemsControlsContainer.js
ViewItemsControlsContainer
ViewItemsSearchBarContainer
ViewItemsAddControlContainer
ViewListItemsContainer.js
ViewListItemsContainer
{ViewItemsControlsContainer}
{ViewItemsSearchBarContainer}
{ViewItemsAddControlContainer}
ListItemsContainer
ViewGridItemsContainer.js
ViewGridItemsContainer
{ViewItemsControlsContainer}
{ViewItemsSearchBarContainer}
GridItemsContainer
Header.js
Header
Footer.js
Footer
SitePage.js
SitePage
{Header}
{Footer}
home
HomePage.js
HomePage
HomePagePostsContainer
{ViewPostsContainer}
HomePagePostsFilterSideBar
account
AccountPage.js
ViewAccountPage
EditAccountPage
profilepage
ProfilePage.js
ViewProfilePage
{ViewPostsContainer}
EditProfilePage

cart

    CartPage.js

        ViewCartPage

            {ViewCartItemsContainer}

commission

    CommissionPage.js

        ViewCommissionsPage

            {ViewCommissionsContainer}

posts

    ViewPostsPage.js

        ViewPostsPage

            {ViewPostsContainer}

    ViewPostPage.js

        ViewPostPage

    PostContentContainer.js

        PostContentContainer

        PostTitle

        PostContent

        PostControlsContainer

        PostStatisticsContainer

        PostTextDataContainer

        PostContestTextDataContainer

        PostCommentsContainer

    PostCommentsContainer.js

        PostCommentsContainer

        PostCommentsControlContainer

        PostViewCommentsContainer

    PostRelatedPostsContainer.js

        PostRelatedPostsContainer

            {ViewPostsContainer}

    EditPostPage.js

        EditPostPage

messages

    ViewChatsPage.js

        ViewChatsPage

            {ViewChatsContainer}

    ChatPage.js

        ChatPage

ChatUserContainer
ChatMessagesContainer
ChatControlsContainer

transactions

ViewTransactionsPage.js

ViewTransactionsPage

{ViewTransactionsContainer}

contests

ViewContestsPage.js

ViewContestsPage

{ViewContestsContainer}

ViewUserContestsPage.js

ViewUserContestsPage

{ViewUserContestsContainer}

ContestPage.js

ContestPage
ContestContentContainer
ContestWinnerContainer
ContestPostsContainer

{ViewPostsContainer}

reports

ViewReportsPage.js

ViewReportsPage

{ViewReportsContainer}

ReportPage.js

contactus

ViewContactUsMessagesPage.js

ViewContactUsMessagesPage

{ViewContactUsMessagesContainer}

ContactUsMessagePage.js

ContactUsMessagePage

users

ViewUsersPage.js

ViewUsersPage

{ViewUsersContainer}

entryforms

LogInPage.js

LogInPage

RegistrationPage.js

RegistrationPage

PaymentInfoPage.js

PaymentInfoPage

info

AboutUsPage.js

AboutUsPage

FaqPage.js

FaqPage

TosPage.js

TosPage

PrivacyPolicyPage.js

PrivacyPolicyPage

CopyrightPolicyPage.js

CopyrightPolicyPage

5. Backend Module Architecture

Main Backend Folders

Contact Us Message - Contains all queries related to contact us messages.

Contest - Contains all queries related to contests and directly connected components to contests.

Post - Contains all queries related to posts and directly connected components to posts.

Report - Contains all queries related to reports.

User - Contains all queries related to users and directly connected components to users.

Architecture Style

The backend architecture is structured as follows. Lowercase elements are package folders. Capitalized elements with an extension ".js" are backend router modules and are always children of package folders. Children of backend router modules are APIs each with their methods and routes.

Backend Module Architecture

contactusmessage
    contact-us-message-router.js
        GET /contact-us-message
        GET /contact-us-message/:id
        POST /contact-us-message
        DELETE /contact-us-message/:id
contest
    contest-router.js
        GET /contest

GET /contest/:id

POST /contest

PATCH /contest/:id

DELETE /contest/:id

contest-post-router.js

GET /contest/post

contest-contest-award-router.js

GET /contest/award

GET /contest/award/:contestId

DELETE /contest/award/:contestId

post

post-router.js

GET /post

GET /post/:id

POST /post

PATCH /post/:id

DELETE /post/:id

post-like-router.js

GET /post/like/:postId

GET /post/like/:postId/:userId

POST /post/like/:postId

DELETE /post/like/:postId/:userId

post-comment-router.js

GET /post/comment/:postId

GET /post/comment/:postId/:commentId

POST /post/comment/:postId

DELETE /post/comment/:postId/:commentId

report

report-router.js

GET /post/report

GET /post/report/:id

POST /post/report

DELETE /post/report/:id

user

user-router.js

GET /user

GET /user/:id

POST /user

PATCH /user/:id

DELETE /user/:id

user-cart-item-router.js

GET /user/cart-item

POST /user/cart-item

PATCH /user/cart-item/:cartItemId

DELETE /user/cart-item/:cartItemId

user-chat-router.js

GET /user/chat

GET /user/chat/:objectUserId

POST /user/chat/:objectUserId

user-commission-router.js

GET /user/commission

GET /user/commission/:commissionId

POST /user/commission

user-post-router.js

GET /user/post

user-contest-router.js

GET /user/contest

user-transaction-router.js

GET /user/transaction

POST /user/transaction/:objectUserId

6. Functional Requirements

Account

1. Accounts shall be able to be viewed by an Unregistered User.

2. Accounts shall be able to be viewed by a Registered User.

3. Accounts shall be able to be viewed by an Admin.

4. Accounts shall have an associated Registered User.

5. Accounts shall have a username.

6. Accounts shall have an email.

7. Accounts shall have a password.

8. Accounts shall have a bio.

9. Accounts shall have a profile picture.

10. Accounts shall be able to have an email modified.

11. Accounts shall be able to have a password modified.

12. Accounts shall be able to have a profile picture modified.

13. Accounts shall be able to have a bio modified.

14. Accounts shall be able to have a profile picture modified.

15. Accounts shall show the Register User's most recent posts.

Admin

16. Admins shall be able to edit their account.

17. Admins shall be able to view a post.

18. Admins shall be able to view a contest post.

19. Admins shall be able to Like a post.

20. Admins shall be able to Comment on a post.

21. Admins shall be able to create a post.

22. Admins shall be able to edit a post.

23. Admins shall be able to delete a comment on their post.

24. Admins shall be able to direct message another registered user.

25. Admins shall be able send a contact us message.

26. Admins shall be able to view all chats with other registered users.

27. Admins shall be able to view a chat with another registered user.

28. Admins shall be able to publish a contest post.

29. Admins shall be able to sell artwork from their own post.

30. Admins shall be able to buy artwork from a registered user's post.

31. Admins shall be able to create a contest.

32. Admins shall be able to modify a contest.

33. Admins shall be able to delete a comment on a post.

34. Admins shall be able to delete a post.

35. Admins shall be able to terminate an account.

36. Admins shall be able to view data tables.

37. Admins shall be able to view transactions.

<u>Chat</u>

38. Chats shall be able to be viewed by an associated Registered User.

39. Chats shall be able to be viewed by an Admin.

40. Chats shall be able to appended by direct messages.

41. Chats shall be able to be created a Registered User.

42. Chats shall be able to be created an Admin.

Comment

43. Comments shall be able to be viewed by an Unregistered User.

44. Comments shall be able to be viewed by a Registered User.

45. Comments shall be able to be viewed by an Admin.

46. Comments shall be able to be deleted by their post's Registered User.

47. Comments shall be able to be deleted by an Admin.

48. Comments shall be able to created by a Registered User.

49. Comments shall be able to created by an Admin.

Contact Us Message List

50. Contact Us Message List shall be able to be created by a Registered User.

51. Contact Us Message List shall be able to be created by an Admin.

52. Contact Us Message List shall be able to be viewed by an Admin.

Contact Us Message

53. Contact Us Messages shall be able to be created by a Registered User.

54. Contact Us Messages shall be able to be created by a Registered User.

55. Contact Us Messages shall be able to be viewed by an Admin.

Contest

56. Contests shall be able to be created by an Admin.

57. Contests shall be able to be viewed by an Unregistered User.

58. Contests shall be able to be viewed by a Registered User.

59. Contests shall be able to be viewed by an Admin.

60. Contests shall be able to be appended by contest posts.

61. Contests shall be able to be ended by an Admin.

Contest Award

62. Contest awards shall be able to be created by an Admin.

63. Contest awards shall be able to be viewed by an Admin.

64. Contest awards shall be able to be viewed by an associated Registered User.

Contest Post

65. Contest posts can be created by a Registered User.

66. Contest posts shall be able to be created by an Admin.

67. Contest posts shall be able to be viewed by an Admin.

68. Contest posts shall be able to be awarded by an Admin.

69. Contest posts shall be able to be liked by an Admin.

70. Contest posts shall be able to be commented by an Admin.

71. Contest posts shall be able to be deleted by an Admin.

Contest Transaction

72. Contest transactions shall be able to be created by an Admin.

73. Contest transactions shall be able to be viewed by an Admin.

74. Contest transactions shall be able to be viewed by an associated Registered User.

Direct Message

75. Direct messages shall be able to be created by a Registered User.

76. Direct messages shall be able to be created by an Admin.

77. Direct messages shall be able to be viewed by an associated Registered User.

78. Direct messages shall be able to be viewed by an Admin.

Like

79. Likes shall be able to be created by a Registered User.

80. Likes shall be able to be viewed by an Unregistered User.

81. Likes shall be able to be viewed by an Registered User.

82. Likes shall be able to be viewed by an Admin.

Message

83. Messages shall be able to be created by a Registered User.

84. Messages shall be able to be viewed by an Admin.

Post

85. Posts shall be able to be created by a Registered User.

86. Posts shall be able to be created by an Admin.

87. Posts shall be able to be viewed by an Unregistered User.

88. Posts shall be able to be viewed by a Registered User.

89. Posts shall be able to be viewed by an Admin.

90. Posts shall be able to be edited by an associated Registered User.

91. Posts shall be able to have a comment deleted by an associated Registered User.

92. Posts shall be able to have a comment deleted by an Admin.

93. Posts shall be able to be liked by a Registered User.

94. Posts shall be able to be liked by an Admin.

95. Posts shall be able to be commented on by a Registered User.

96. Posts shall be able to be commented on by an Admin.

97. Posts shall be able to be deleted by an associated Registered User.

98. Posts shall be able to be deleted by an Admin.

Post Transaction

99. Post transactions shall be able to be created by a Registered User.

100. Post transactions shall be able to be viewed by an Associated Registered User.

101. Post transactions shall be able to be viewed by an Admin.

Registered User

102. Registered users shall be able to create posts.

103. Registered users shall be able to like posts.

104. Registered users shall be able to comment on posts.

105. Registered users shall be able to create contest posts.

106.   Registered users shall be able to buy artwork from sellable posts.

107.   Registered users shall be able to direct message other users.

108.   Registered users shall be able to contact us message admins.

109.   Registered users shall be able to view posts.

110.   Registered users shall be able to view contest posts.

111.   Registered users shall be able to view contest results..

112.   Registered users shall be able to view the number of likes on posts.

113.   Registered users shall be able to view the comments on posts.

114.   Registered users shall be able to view a Register Users' account page.

115.   Registered users shall be able to edit posts.

116.   Registered users shall be able to edit their account.

117.   Registered users shall be able to sell artwork from a post.

118.   Registered users shall be able to unlike posts.

119.   Registered users shall be able to delete their comment on a post.

120.   Registered users shall be able to delete their account.

Transaction

121.   Transactions shall be able to be created by a Registered User.

122.   Transactions shall be able to be created by an Admin.

123.   Transactions shall be able to be viewed by an associated Registered User.

124.   Transactions shall be able to be viewed by an Admin.

Unregistered User

125.   Unregistered users shall be able to view posts.

126.   Unregistered users shall be able to view contest posts.

127.   Unregistered users shall be able to view the number of likes on a post.

128.   Unregistered users shall be able to view the comments on a post.

129.   Unregistered users shall be able to view contest results.

7. <u>Non-Functional Requirements</u>

<u>Performance</u>

1. Results from user actions shall be handled within a certain speed (1ms).

<u>Coding Standards</u>

2. Code shall be easily readable and understandable.

3. Code shall be neat and well-formatted

4. Code shall have a consistent format for maintenance.

5. Code shall invoke code reuse when appropriate.

6. Commenting on obvious things shall be avoided.

<u>Look and Feel</u>

7. User interface shall have an engaging and pleasing look.

8. User interface shall be consistent throughout each section.

9. User interface shall look professional and functional.

10. Results from user actions shall be smooth without delay.

8. <u>Technological Stack</u>

Server Host: AWS

Operating System: Ubuntu

Database: MySQL

Web Server: NGINX

Server Side Language: Express

Additional Technologies:

    Web Framework: React

    IDE: VS Code

    Database Design Tool: MySQL Workbench

9. <u>Final Notes</u>

The 10th use case from the previous milestone has been removed. It has been decided that the first implementation of the project will have the maintenance tasks done by simply observing the database and running queries outside of the website. Additionally, since again this milestone is in the early stages of planning, the above sections may be subject to change.