**Requirement:**

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| **Requirements** |
| General |
| System must allow many user to create a drawing room |
| System must allow many users to draw on the same canvas |
| System must provide a list of brushes and lasso functionalities for users to use |
| System must let user create an account that has its own profile |
| Each profile has a gallery storing artworks posted by the profile owner |
| System must allow users to interact with other users and posts |
| System must allow user to switch from gallery mode to drawing room mode |
| System must allow user to invite people to room |
| System must allow user to join a room |
| User |
| User must be allowed to create an account |
| User must have a join code to be invited to a group |
| User must be allowed to create a drawing room |
| User must be allowed to join a room |
| User must be allowed to be a member of many rooms |
| User must be allowed to switch from Drawing room mode to Gallery mode |
| User must be able to login/sign in |
| User must be able to like post |
| User must be able to comment on post |
| User must be able to share post |
| User must be able to save post |
| User must be able to search for post/artist |
| User must be able to post |
| User must be able to delete post |
| User must be able to update post |
| User must to able to receive notification in real time |
| User has these attributes:firstname,lastname,email,password,occupation,working,location,interest’s list,about me section,1-3 preview pictures,following,follower,brushTips,joinCode |
| User mood |
| User must has a mood attribute to monitor their mood in 4 range:sad,normal ,happy,excited |
| User’s default mood is happy |
| User’s mood is changed by the type of images they click on |
| User’s mood affect the discovery tab.The tab will display images corresponding to the mood |
| Drawing mode(DM) |
| DM must have a collection of room that the user created |
| DM must have a collection of room that the user is a member of |
| DM must allow user to change to Gallery mode |
| DM must display information of each room including: no.member,host’s name,on line status, group’s name |
| DM must allow user to search for a group they are hosting or joined using its name |
| DM must allow user to enter a room number and join it |
| Drawing room(DR) |
| Every room must have only 1 single host |
| DR must have a canvas for many users to draw on |
| DR must provide a list of tool for users to use on the canvas |
| DR must provide a brush/eraser system for user to use |
| DR must provide a layer system for user to use |
| DR must provide a Color Palete system for user to use |
| DR must allow user to invite other account to a group using that user’s join code. |
| DR must allow only host to be able to accept or decline a join/invitation request |
| Each join/invite request to a room from non-host user must be put on pending and wait for the host to accept/decline |
| DR must display the pending request to host user only |
| Creating a room |
| User must first enter:name of room |
| User then can optionally choose to invite a user to group by entering there join code |
| A room must have these information: ID,room name,roomCode,members,host,pendings |
| Joining request |
| User must enter the roomCode to enter a room |
| User requesting to join a room must wait for the host to approve the request before joining. |
| Join request must have:ID,requestUser,group |
| Invite request |
| User must enter the joinCode of a user to make an invite request for that user to the group |
| The invited user must wait for the host to approve the request before joining the group |
| Invite request must have: ID,inviter,invitee,group |
| Canvas |
| Canvas must be allowed to have many layers with the maximum of 10 layers |
| User must be allowed to select a portion of the canvas to draw in using the tool system |
| Canvas must store these attributes: ID,room |
| Layer |
| System must have a panel for storing and modifying the layers |
| User must be able to create a layer for a canvas |
| User must be able to delete a layer for a canvas |
| A layer must have these properties: mode and opacity |
| A layer must have different mode including:Normal,Multiply,ColorDodge,Color,Darken |
| A layer can be toggle off/on |
| Layer must store these attribute:ID,Canvas,Image |
| Tool |
| List of tool must include:Move tool,square selector,circle selector,lasso tool,eyedropper,paintBucket,Brush,Text,goBack,goForward,zoom in, zoom out |
| Brush |
| User choose the brush tool to use the brush |
| A brush has many tips and has 5 tips by default,default is a round tip |
| A brush has these properties:size,density,opacity,hardness,color |
| User can import and upload their own brush tips |
| User can apply pressure to these properties:size,density,opacity |
| Gallery mode |
| Sign up |
| User is asked for their first name,last name,email,password,password confirmation ,occupation,where they are working,other information they would like to provide to their bio. |
| User is asked to choose their interest from a list |
| User is asked to write an About me summary and provide 3 pictures of their artwork |
| System must save into database the user’s firstname,lastname,email,password,occupation,working location,interest’s list,about me section and its 3 pictures and assign an ID number to the user |
| Login |
| User must enter their user email ,password |
| System must validate those information with records from database |
| System must provide a message confirming the user that they have logged in successfully |
| System must provide a message confirming the user that they have logged in unsuccessfully |
| User must be able to logout |
| Post |
| A post must have these attribute:list of images(maximum 10),summary,number of like,currentInteraction(updated every hour),lastInteraction(updated with currentInteraction every hour) , number of comment,comments,mood,interest,the author.These must be stored in the database and assigned with the author’s ID |
| For user different from the post’s owner,there is a like/share/save button |
| Owner must have option to edit/delete the post |
| Owner while editing the post can delete/add images and change the summary ,once the images are changed,the post mood is updated.These information is then used to update the record in the database |
| Posting a post |
| User must upload images or videos and write a summary |
| User must enter at least 1 type of interest the post belong to such as : illustration,3d moddeling ,2d art |
| System must determine the mood of the image by monitoring the Dominant Color of the image |
| Discovery |
| The tab must show trending/latest/following posts |
| The tab must allow user to decide what type of post to show based on type of interest |
| The content shown must be based on the trending/latest/following filter, type of interest and the user mood |
| User homepage |
| Homepage has Gallery page storing user’s post |
| Homepage has Follower page showing who is following the user |
| Homepage has Following page showing who the user is following |
| Homepage has About me page storing user’s information including a summary and 3 pictures |
| Homepage has a follow button for account that is no the user |
| Home page always display user’s name,occupation,working location,other information input by the user |