**Customer Requirement:**

I want a solution which allows registered users to maintain his/her image gallery with the limited space of 10 gb per user.

User can mark any image private or public.

Any visitor can explore the collection of public images posted by the users.

Images are for view purposes only, not for download.

**Side Note from Customer:**

I don't want any kind of user to manage the all user activities and operations, on my application as a high authority. We will do it in future. Also, I will look forward to go for mobile app development once we go live and see the public reaction.

You need to list down all the tasks required to deliver the complete project, based on customer requirement.

**Choose any one method to do needful:**

**Method 1:**

1. Write user-stories for the Customer requirement.

2. List tasks from user-stories to distribute among the devs.

**Method 2:**

Identify and list down tasks directly from the given customer requirement to distribute among the devs.

**Note: Each task should have estimation time in MAN hours**

Solution:

Below is my solution for the tasks mentioned above applying **Method 2:**

**Section Includes (Only for web):**

1. Login
2. Registration
3. Gallery Section

On Frontend user will have a Login and Registration form.

A gallery section allows a user to manage there public and private images and image upload.

Also a separate page to view other users uploaded images (Need more clarification so not taking this into consideration).

As we already have user registered on our application. We need a frontend and a backend. The Backend will help us for uploading and maintaining for our images and frontend will be responsible to upload images which can be stored on backend.

Now on backend, when a user uploads an image from frontend the image will be stored creating a specific folder user wise as per user’s private public need, as per the user ID so the path will be sort of like **/gallery/1/image-private.jpg or image-public.jpg**.

As we have a requirement of making images public and private we will be making it via code and database. We will have a column in our gallery table with boolean datatype **is\_public** true for public images and false for private also we will store path of our saved images in this table.

Through this we will easily determine whether an image is public or private.

Whenever a user uploads an image that image will be take space in the backend from backend coding we can find out user ID specific folder and each time an image will upload we will check the folder size if it exceeds more than 10 GB then we will notify the user about there storage is full.

After this as requirement goes image is for view purpose not for download:

First thing first WE CANNOT PROTECT AN IMAGE FROM DOWNLOADING FROM WEB.

Although there are few approaches using which we can prevent it from downloading or making user caution about the images are only READ-ONLY. Also if the images accessed from mobile app then image could only be viewed and not able to be downloaded until we give them functionality to do so, Few approaches are listed below:

1. Disable the Content menu (Right click)
2. Watermarking the Images
3. Disable pointer with CSS not allowing any kind of activity on img tag.

The tasks estimation depends upon the technology we are going to use, the time estimation does not include mobile development and could may vary as per technology and more clarification.

Time Estimation is : 32-35 hrs