

CSC438 Final Project  
Drawing App Using paper.js

### Project Proposal Status:

1. Application should allow users to create simple images and save them. → **Completed**
2. Application should allow users to change colors and brush stroke size. → **Completed**
3. Application should allow users to draw over an existing image. → **Completed**
4. Application should allow users to comment → **Completed**
5. Images can be made public or private → **Completed**

### Application Functionality:

1. Registered users can create or upload images
2. Registered users can edit their created/uploaded images
3. While drawing, users can change the brush width and change colors (Red, Blue, Green, Yellow and Black)
4. Registered users can comment on the image
5. Registered users can make their created/uploaded images public. By default, every image is private and can be viewed by the creator only.
6. Non-registered users can view the public images.
7. Non-registered cannot post comment.

### Database:

Application database consist of two tables:

#### 1. Image

- a. ImageTitle - Stores Image Title
- b. ImageCanvas – Stores image in blob/base64
- c. ImageUpload – For uploading images
- d. ImageViewPermission – Stores View Permission: Public/Private

#### 2. Comments

- a. Image\_id – Stores Id of the image
- b. Body – Comment Body

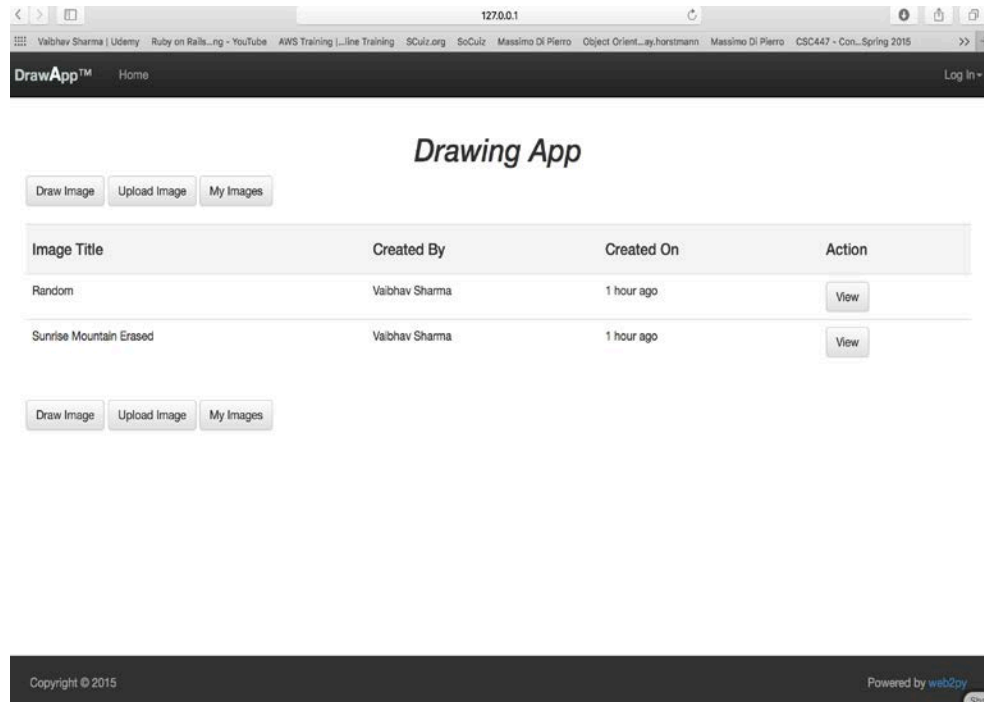
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### Application Pages:

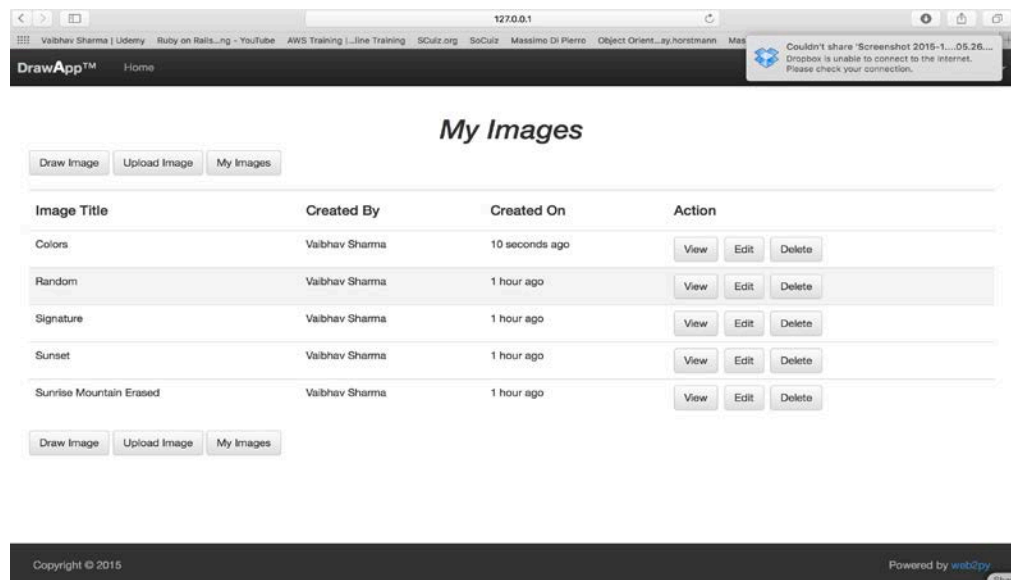
#### 1. index.html:

Displays all the images that have public view permission



#### 2. myImages.html:

Displays all the images that are created/uploaded by the user



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### 3. uploadImages.html:

To upload images

The screenshot shows a web browser window with the address bar displaying '127.0.0.1'. The browser's bookmark bar includes links to 'Vaibhav Sharma | Udemy', 'Ruby on Rails...ng - YouTube', 'AWS Training | Line Training', 'SCulz.org', 'SoCulz', 'Massimo Di Piero', 'Object Orient...y.horstmann', 'Massimo Di Piero', and 'CSC447 - Con...Spring 2015'. The page header for 'DrawApp™' shows 'Home' and 'Welcome Vaibhav'. The main heading is 'Upload Image' with a 'Logged in x' button. Below the heading are two buttons: 'Draw Image' and 'My Images'. The form includes an 'Image Title:' field with the value 'Colors', an 'Image:' section with a 'Choose File' button and a file named 'images.jpeg', and a checked 'Share Image' checkbox. A blue 'Submit' button is at the bottom of the form. At the bottom of the page, there is a footer with 'Copyright © 2015' and 'Powered by web2py'.

### 4. drawNewImage.html:

To create a new image

The screenshot shows the 'drawNewImage.html' interface. The browser window has the same address bar and bookmark bar as the previous screenshot. The page header for 'DrawApp™' shows 'Home' and 'Welcome Vaibhav'. The main heading is 'How to Draw?'. Below the heading are three buttons: 'Draw Image', 'Upload Image', and 'My Images'. The central canvas displays a hand-drawn line drawing of a mountain range. To the right of the canvas is a list of instructions titled 'How to Draw?':

1. To draw click in the canvas and drag the mouse.
2. The default color is black and brush width is 1.
3. To change brush width press key 2 to 9 while drawing.
4. To change color press one of the following keys for the specific color while dragging the mouse:
  - R : Red
  - B : Blue
  - Y : Yellow
  - G : Green
5. To erase keep pressing the key E while dragging the mouse.

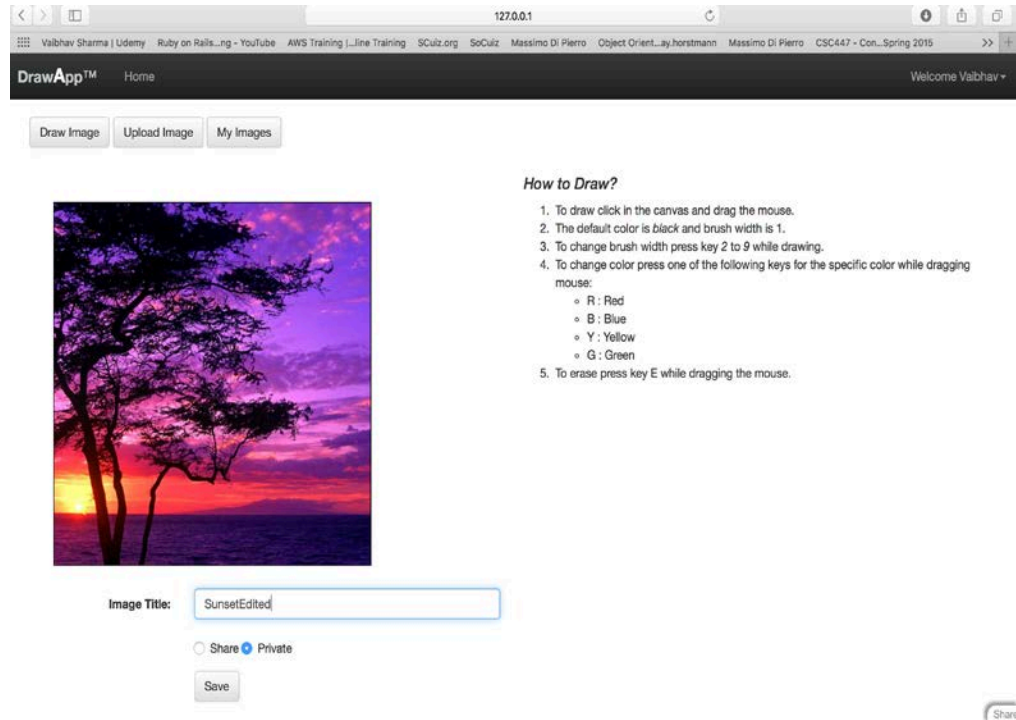
Below the canvas is an 'Image Title:' field with the value 'Scenery', radio buttons for 'Share' (selected) and 'Private', and a 'Save' button. At the bottom of the page, there is a footer with 'Draw Image', 'Upload Image', and 'My Images' buttons, and a small 'web2py' logo.

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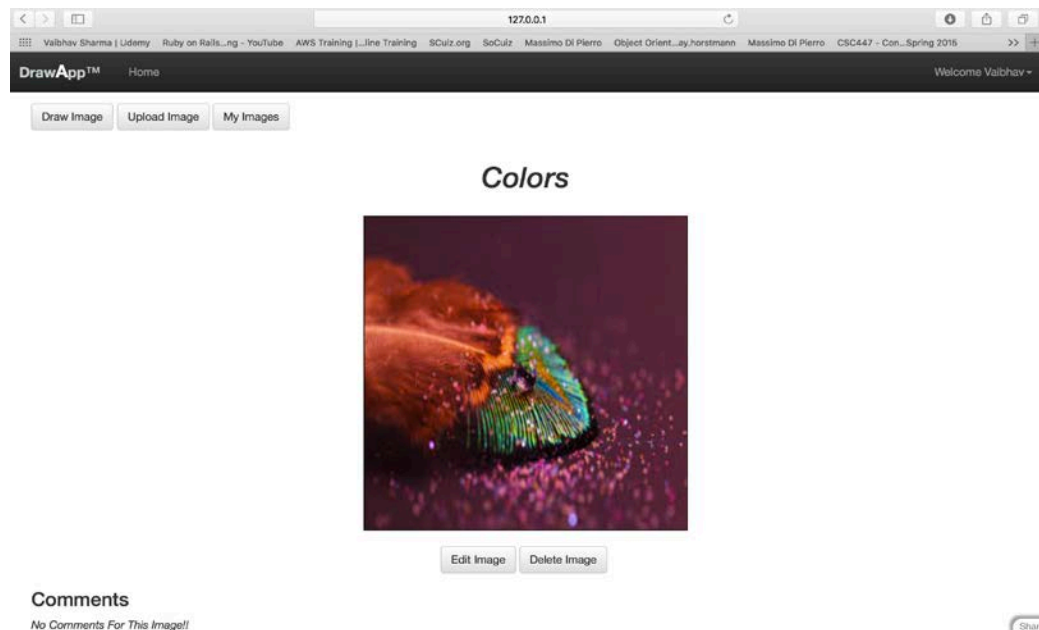
### 5. editImage.html

To edit uploaded/created images



### 6. viewLogin.html

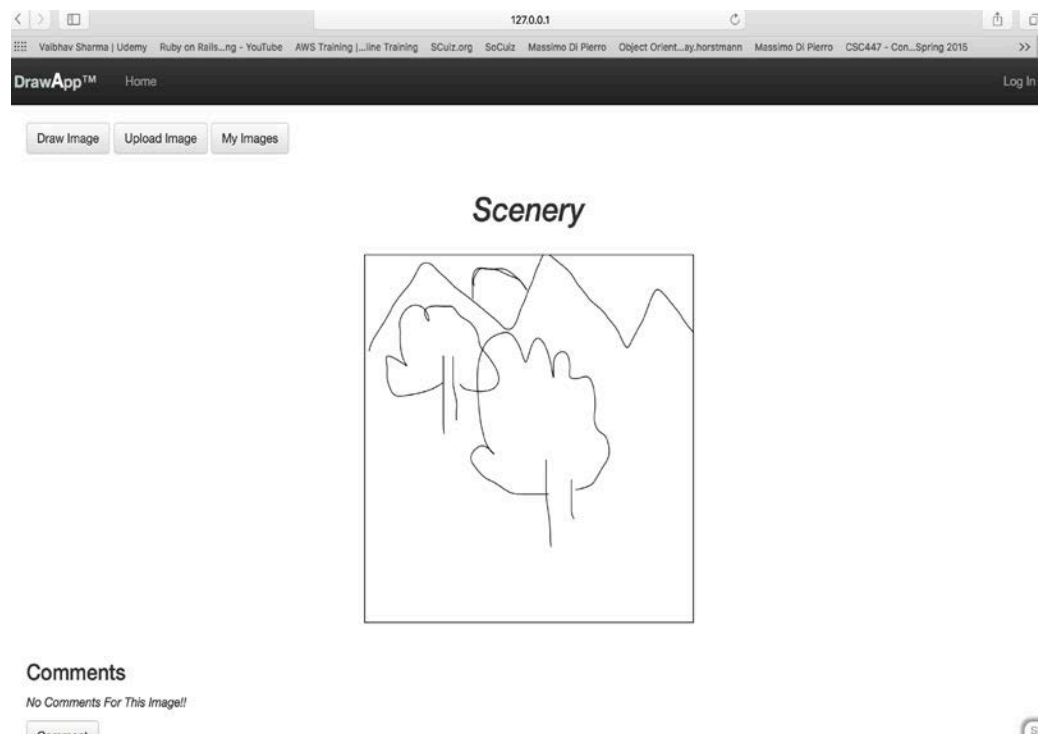
View image in Registered User mode



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## 7. viewNotLogin.html

View image in Non-registered user mode



### Drawing/Editing Instructions:

1. To draw click in the canvas and drag the mouse to create line.
2. The default color is black and brush width is 1.
3. To change brush width press key 2 to 9 while drawing.
4. To change color press one of the following keys for specific colors while dragging mouse:
  - a. R → Red
  - b. B → Blue
  - c. G → Green
  - d. Y → Yellow
5. To erase press key E while dragging the mouse.

### Web Link:

The application can be accessed at the following link:

<https://vaibhavssharma.pythonanywhere.com/DrawApp/default/index>