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PEN DOODLE

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ABSTRACT

Art is about illusion and imagination. "PEN DOODLE" is an online platform where users can draw their imagination on the virtual drawing pad. The proposed system aims to reduce paper usage by providing a virtual drawing pad where users can also save their work. Rightly said by famous artist Pablo Picasso,"Painting is just another way of keeping a diary". The ongoing circumstances present a very sine qua non issue which needs to be resolved which is the elimination of paper for the drawing. The feature readily engages the user in its appealing features and also provides a platform to save, edit and text their visualizations. The drawing pad readily focuses on customer centricity and customer performance to make hassle free.

Keywords: Virtual Pad, Sine Qua Non, Save, Text And Edit, Customer Centricity And Customer Performance.

I. INTRODUCTION

In a student's life drawing and painting which enhances creativity plays a vital role, as said by Leonardo Da Vinci, "The mind of the painter must resemble a mirror, which always takes the color of the object it reflects and is completely occupied by the images of as many objects as are in front of it.". Our project PEN DOODLE aims to help the creative unprivileged student in pursuing creativity and make the best use of their gray matter, this platform is a website where people can jot their imaginative ideas and convert it to a reality, with the help of ideas coming in their mind working in their locality and we added new features of saving, editing and and user specific with a login and logout page where students can exchange their ideas and creative skills with each other. We deeply studied some websites and papers that are working on the same successfully [1] but after reviewing as a user we found a need to add exchanges of graphics features to our project.

When a user will enter the website, the website will first ask the user about his login id and password which would have been provided to him at the time of signing in and in case the user is new to the website it has also an option of new user sign up. As soon as the user enters the website he is via login and password he reaches the main page where he can design what he want to jot down using his artistic work and also the website allows him to edit and also save his past actions and the silver lining feature in the mentioned website is the availability of shareability option.

When a user will enter the main page there will be panoply of options of variety of shapes of varying sizes which can used while using the website. The proposed system also gives varies colors to be used in painting and also resetting the page to a blank page. Various varieties of brush to fill color in shapes are provided inter alia options of resizing the shapes and their boundary colors which add vividness and vigourness to their skills.

We named our project as "PEN DOODLE" as its meaning easily conveys the substantive idea of a maverick or nomad, one who is unorthodox nd free in his thinking but knows how to make his designs and drawings speak up for his mind and about society. The website proves to bridge the gap between user and website to one who is really interested in making digital drawings and making them their memory and making it a click and available system. With good intention in heart the system takes cognizance of the spiraling environmental conditions and works in cohesion to reduce pollution and make the mother earth a better place to live and contribute towards sustainable development of environment and holistic development of students and other users.

II. LITERATURE REVIEW

There are many organizations and websites which are working on conducting the digital drawing website. We have referred to some research done on how to eliminate the pen-paper mode of drawing and exploring new options to draw and save, edit and reset their drawings in synchronization with login id and password.

Omorkulov, A., Maripov, A., Eshbaev, M., Shakirov, K., Alie-va, T., Toktorbaeva, E., Kadyrbaeva, T., &Abdullaeva, Z.[1] proposed a system which aims to find out the positive ways of representation of one's creative ideas on



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digital canvas which can be used in teaching arena and also in easing the student's life of using old pen-paper mode of drawing, the system also focuses on use of digital pen along with the digital tablet.

Mäkelä, Maarit & heikkinen, tero & Nimkulrat, Nithikul. [2] proposed a system which aims to have Drawing, a fundamental tool in most art and design disciplines, which has recently become a widely discussed topic within the context of artistic research. The variety of contemporary research into drawing has demonstrated that drawing is an activity that has almost boundless potential applications and roles within design and artistic practices

Rani, Archana. Digital Technology: It's Role inArt Creativity[3] proposed a system which aims to throw light on how digital technology can focus on creating and enhancing an individual's creativity in real sense and what other dimensions of life can be improved using digital drawing tools and expressing their drawing.

Dr Anshu Srivastava [4] proposed a an article where the author focussed on multi dimensional way of digital art.He threw the light on the freeing up of old style brush,paper and canvas mode rather than focussing on developing creative skills along with the software usage which will whet one's creative appetite. Digital art is created by artists with the help of the computer and sometimes modified by computer software. It also creates a subtle difference between design and art. Digital art is the outcome of creativity and computer technology.

Dr Sonali Gupta [5] proposed a system to enhance digital drawing technology. Digital artwork is an aesthetic work or drill that utilizes digital technology as an indispensable component of the creation or presentation process. Since the 1970s, several names have been applied to identify the process, including computer art and multimedia art, and digital art is itself placed under the larger umbrella term new media artwork.

METHODOLOGY III.

Here in the proposed system we have have made use of process flow diagram diagram to explain the given process where the person already registered goes through a login page whereas a person with no registration in the database goes through fill registration form and as soon as he fills the registration form user lands up on the homepage where he can use the drawing pad and start there artistic work.

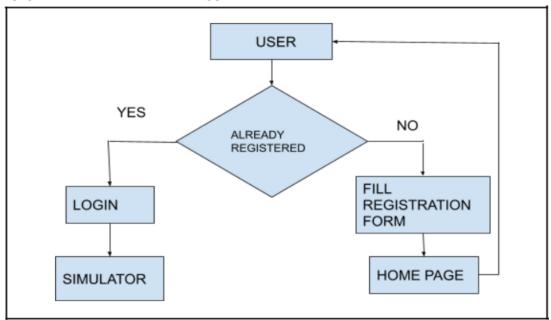


Fig 1. Process Flow Diagram

The second diagram which is of use case diagram where two functionalities are working one is the user and the other one is of admin. The admin is entitled to all the access database and he is also provided with the login id and password and he can manage the application and also update details and control the database while on the other hand user also logs in and can update details and if logged in can access the pad and carry on his work.



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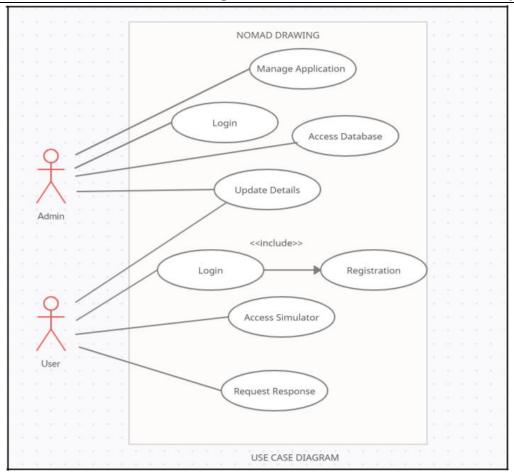


Fig 2: Use Case Diagram

IV. PROBLEM FORMULATION

The old process involved of drawing and painting on plain sheets and once any mistake made landed the sheet being redundant, after doing some research on the above topic we found that there are many digital drawing pads available but they were always shorts in some way so we decided as a team to get a digital drawing website where can login and make or draw their drawings, fill color and edit and save their works. The problem associated with other websites were that they had drawing pad where one can draw but no option of reset or edit and save were available and also no login id and forgot password features were available. Some websites demanded subscription charges from the user which interrupted digital equality.

While doing research on the old working system we felt a gap between the users and to overcome these problems we proposed a project PEN DOODLE, a robust platform where users can create, edit and save their artistic work and drawings and all processes will be handled by the website itself.

V. IMPLEMENTATION

The proposed system aims to create a website which allows the users to draw their creative ideas on the digital drawing pad with provision of various colors to be filled in figures and various shapes and sizes symbols to add enhancement in the creative work. Along with that the user is also entitled to edit, save or reset the page. The most striking feature of the website that it bridges the gap between human skills and paperless technology which has win-win situation on both sides i.e. on the user as well as environment side. A front page containing the options of colors to be filled along with various strokes of brushes and option of saving and editing will be available. Along with it login pages with username and password and forgot password option will be provided. The various functionalities of proposed system are:

User Login:

After logging in, uses land up on homepage where one sees his/her name along with the details which were earlier submitted by user while logging in the website, also the system gives additional options of changing



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one's contact number and also the security question which proves to be beneficial in case user thinks to change his security question.

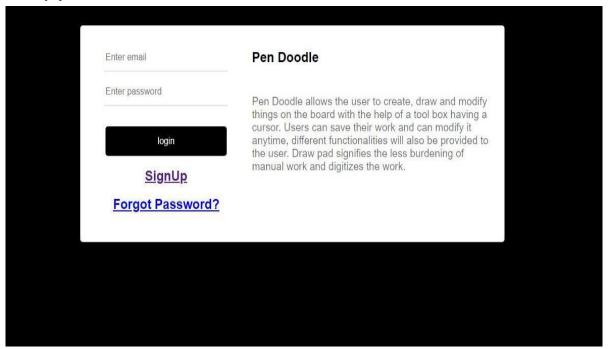


Fig 3: Login Page Of The Proposed System

User Registration:

If the concerned user wants to register and enjoy the benefits of the website, firstly he needs to register him/her on the website using a registration form A separate registration form is provided to the user to fill his details on it and register himself/herself on the website. The proposed system has also a separate page in case the user forgets his username or password he can go through the forgot password option and reset password, while registering on the website one also encounters a security question which is provided in case the one forget password he/she can login using this feature.

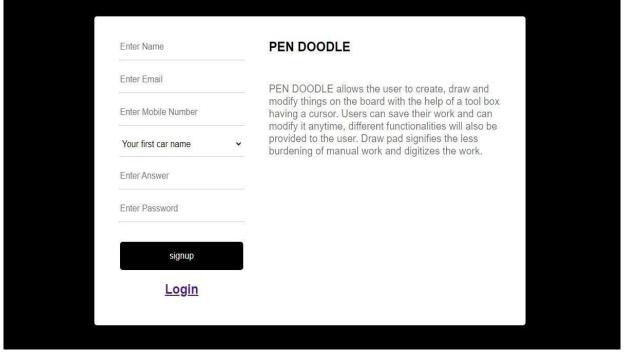


Fig 4: Registration Form for Users



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Fig 5: User's Profile Page

C. PEN DOODLE Page:

As soon as the user selects to go on the PEN DOODLE page he readily sees the pad where the user can jot his creativity and use his skills to make an artistic drawing.

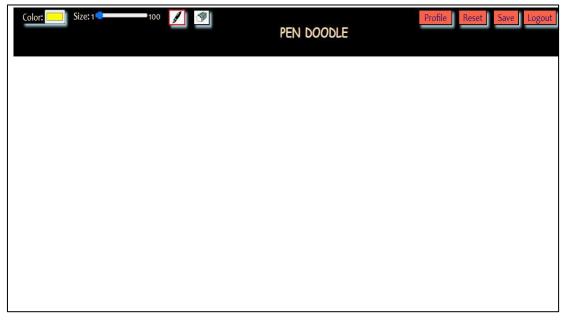


Fig 6: PEN DOODLE Page

VI. **RESULT DISCUSSIONS**

The website PEN DOODLE can be used by a number of people for different benefits and can be proved helpful such as, an individual can jot and synchronize their creative thoughts on the website. The most striking feature of the website is that it allows users to save, edit and provides a username and login id which helps to save the data and allows the user to carry on where he left earlier. Also the digitization of the drawing process leads to decreased use of paper which results in conservation of nature and the website includes inter alia editing and ersing which is a remarkable and distinguishing feature when compared to traditional pen-paper way, The



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website can be used by a variety of users such as school students, college students, teachers, common people etc. Some of the advantages of the website is that it saves time,money,environment friendly,shareability, user friendly and creativity enabler. Sometimes during any emergency situation where one cannot buy drawing sheets but has access to the internet can connect through the website and share his/her work without any bottlenecks.

Furthermore, the provision of login id to each and every individual user secures his/her data and also the provisioning of the forgot password option also supplements user friendliness. The website can also be used in educational institutions to teach students and make a shift from paper mode.

VII. CONCLUSION

PEN DOODLE will be very helpful for many, specifically to artistic students who want more enhancement of their creative skills. It is the need of the hour to use modern technologies in art education. Students should not be limited to just drawing on black and white paper rather master new drawing methods and enhance their interaction with digital world. Students learn and develop skills for a new style of drawing approaches not only on plain paper but on an online website powered by electronic device. University Students discover new opportunities for creativity in the use of a graphics the field of computer graphics. Thus, the introduction of this website in art and educational universities opens up new opportunities in the field of creativity, revealing completely new learning methods.

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VIII. REFERENCES

- [1] Omorkulov, A., Maripov, A., Eshbaev, M., Shakirov, K., Alie-va, T., Toktorbaeva, E., Kadyrbaeva, & Abdullaeva, Z. (2021). Use of the GraphicTablet in the Art and Educational University. Art and Design Review, 9, 19-26.
- [2] Mäkelä, Maarit & heikkinen, tero & Nimkulrat, Nithikul. (2014). Drawing as a research tool: Making and understanding in art and design practice.. Studies in Material Thinking. 10. 1-12.
- [3] Rani, Archana. Digital Technology: It's Role in Art Creativity. Journal of Commerce and Trade, October 2018; 13:2
- [4] Dr. Anshu Srivastava (2019).DIGITAL ART A REVOLUTIONARY FORM OF ART & VISUAL COMMUNICATION "International Journal of Research Granthaalayah" 7(11SE), 83-88. https://doi.org/10.29121/granthaalayah.v7.i11.2019.3705
- [5] Dr. Sonali Gupta. (2019). "THE RISE OF DIGITAL ART." International Journal of Research-Granthaalayah, 7(11SE)
- [6] Bahl, S. K. -The playing field of new media art. (S. Tagore, Ed.) Art& deal Creator of new media, Vol no.6no3,(July2009)
- [7] Chari, A.- Illusion and reality: the nature of digital art in contemporary art 2009. (S. Tagore, Ed.) Art deal Creators new media, Vol.6no3
- [8] Tagore, S.-Use of Digital Art in Contemporary Indian Era, July, 2009.
- [9] Oliver Grau(Ed.)-Media Art Histories, MITPress/Leonardo Books, 2007.
- [10] Grebennikov, K. A. (2002).Computer Graphics as a Means of Professional Training ofDesign Specialists(195 p). Dissertation, Voronezh
- [11] Tamim, R., Pickup, D., Borokhovski, E., Bernard, R. M., & Saadi, L. (2015). Tablets for Teaching and Learning: A Systematic Review and Meta-Analysis (63 p) Common Wealth Learning.
- [12] Wollscheid, S., Sjaastad, J., & Tømte, C. (2016). The Impact of Digital Devices vs. Pen(cil)and Paper on Primary School Students' Writing Skills—A Research Review.Computers & Education, 95,19-35



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- [13] Tamim, R., Pickup, D., Borokhovski, E., Bernard, R. M., & Saadi, L. (2015).
- [14] Tablets for Teaching and Learning: A Systematic Review and Meta-Analysis (63p)Common Wealth Learning.
- [15] Ricoy, M. C., & Sánchez-Martínez, C. (2019). Tablet Use in Primary Education. Technology, Pedagogy And Education, 28,301-316.
- [16] Grebennikov, K. A. (2002).Computer Graphics as a Means of Professional Training of Design Specialists(195 p). Dissertation, Voronezh.
- [17] Dalmia., Y.- Datta, E., Sambrani, C., & Martha, J. K. Indian Contemporary Art: Post Independence.pub, Vadehra Art Gallery, 2010.
- [18] GongKeli-Analysis Of Digital Painting, digital arte features, Silk Road. 2014.
- [19] Monovich L- Computer Graphics, The Engineering of Vision and the Aesthetics of Computer Art, ACM NewYork, USA, 1994.
- [20] Farlex Editor-Digital art, Producer, & The Columbia Electronic Encyclopedia, 2003.