



https://Pixel-Patch-Presentation.com



THE TEAM: Cornelius Pavlic, Connor Murphy, Sophia Testa, Justin Lyogky, Isaac Hraga



Obligatory Pet Pictures



TJ



CATS>>>DOGS

Not true ^

<Really Just Not true



Luke & Willie



Murphy & Peanut



Lain & Pitou



PIXEL PATCH PRESENTATION PREVIEW

1. DEFINE THE PROBLEM WE ARE SOLVING

2. HOW OUR PROJECT OFFERS A SOLUTION TO THIS PROBLEM

3. STRUCTURE OF THE PROJECT AND TECHNOLOGIES USED

4. EVALUATION OF THE PAGES AGAINST THE 8 GOLDEN RULES

DEFINING THE PROBLEM

THE REQUIREMENTS: ‘Design a fully functional website or software, with any purpose... the product must have: 1. Fully working GUI an 2. A data source’ - project description

THE IDEA: A website that allows users to create and share their own pixel-art drawings, and view other user’s posts.



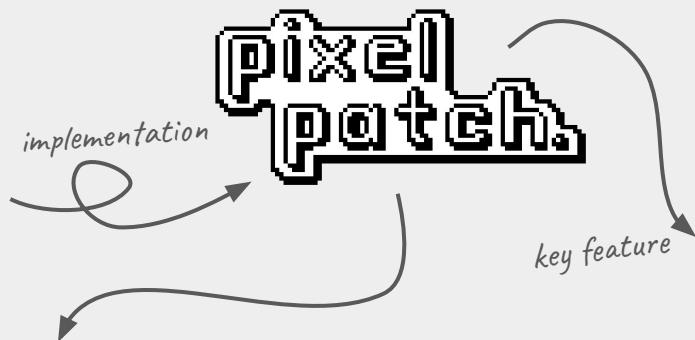
! THE PROBLEM to SOLVE: Implement the idea in a way that fulfils the project requirements while providing an easy to use interface.

- The end result must:
1. Be a fully functional piece of software
 2. Have a well designed GUI and Database component
 3. Fulfil its stated purpose

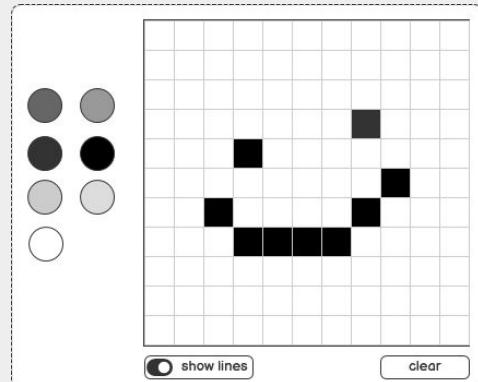
SOLVING THE PROBLEM: Pixel Patch Project Description

THREE MAIN GOALS:

1. CREATE a fully functional piece of software
2. INCLUDE a well designed GUI and Database component
3. DELIVER on the stated purpose



add tags: #:
add title: #:



THE DESCRIPTION: Pixel Patch is an online pixel-art creation and sharing platform. New and returning users are able to create and view posts that consist of titles, tags, and 16x16px drawings. All user data is stored in a database and the GUI provides intuitive interaction with the site content and features.



TECHNOLOGY USED

The JS language files provide the logical backbone of the GUI while the stylized look is defined in the CSS files. The database is defined using python with SQL queries interjected.



LANGUAGES:

FrontEnd: JavaScript, CSS

BackEnd: Python and SQL

FRAMEWORKS:

React.js

Python Flask

Github was used for version control and to allow efficient collaboration between the team. The website and database are ran locally.



PROJECT ARCHITECTURE

```
root
|-- backend (python Flask)
|   |-- instance
|   |   |-- app.db
|   |-- app.py
|   |-- fancyData.py
|   |-- installMe.md
|   |-- populateDataBase.py
|   |-- requirements.txt
|-- pixel-patch
    |-- public
        |-- brush.svg
        |-- download.svg
        |-- favicon.ico
        |-- index.html
        |-- logo192.png
        |-- logo512.png
        |-- manifest.json
        |-- robots.txt
```

```
root
|-- pixel-patch
    |-- src
        |-- assets
            |-- logo.svg
            |-- logoNoBorder.png
        |-- components
            |-- Auth
                |-- Login.js
                |-- Signup.js
            |-- Layout
                |-- Footer.js
                |-- Header.js
            |-- PixelCreator
                |-- Drawing.js
        |-- pages
            |-- About.js
            |-- CreatePost.js
            |-- Home.js
            |-- Profile.js
            |-- Search.js
            |-- UserProfile.js
```

```
root
|-- pixel-patch
    |-- src
        |-- styles
            |-- [...] (css file for each of
                    the js files)
            |-- globals.css
            |-- theme.css
        |-- App.css
        |-- App.js
        |-- index.js
        |-- reportWebVitals.js
        |-- setupTests.js
        |-- .gitignore
        |-- package-lock.json
        |-- package.json
        |-- README.md
        |-- README.md
    (end)
```

This is a diagram of the file structure, based on the default React file structure



https://Pixel-Patch-Presentation.com



HOME

ABOUT



CREATE POST

LOGOUT

PROFILE

Ben
Schneiderman's

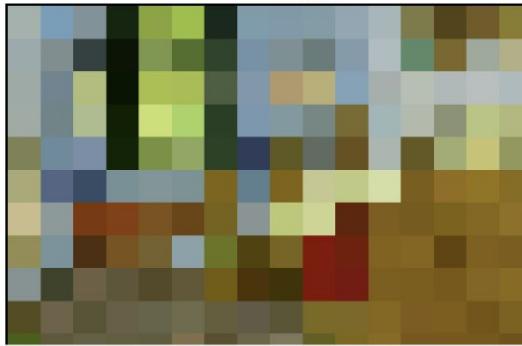
pixel patch

8 Golden
Rules

Explore the latest posts and create your own pixel art!

Vincent van Gogh's Artwork

[vincentvangogh](#)





1. Strive for Consistency

HOME ABOUT Q CREATE POST LOGOUT PROFILE

Title: Default Post Screenshot

Tags: RED

New Lines Clear Grid Fill

POST

© 2024 PixelPatch. All Rights Reserved.

HOME ABOUT Q CREATE POST LOGOUT PROFILE

pixel patch

Explore the latest posts and create your own pixel art!

Vincent van Gogh's Artwork [vincentvangogh](#)

© 2024 PixelPatch. All Rights Reserved.

HOME ABOUT Q CREATE POST LOGOUT PROFILE

@claudemonet

@berthermorisot

Eto Sadness

© 2024 PixelPatch. All Rights Reserved.

HOME ABOUT Q CREATE POST LOGOUT PROFILE

About PixelPatch

Welcome to PixelPatch! This platform is designed for pixel art enthusiasts to create, share, and explore creative pixel artworks. Whether you're a seasoned artist or just getting started, PixelPatch offers a fun and interactive way to dive into the world of pixel art.

How to Use PixelPatch

- >Create Posts: Use our easy-to-use pixel art editor to create unique pixel art posts. Once you're done, you can publish your work or save it to your private archive.
- Explore Content: Scroll through posts by other users, interact with them, and get inspired!
- Profile Management: Customize your profile, manage your posts, and control your visibility.

Key Features

- Create pixel art directly from the browser.
- Tag your posts with relevant topics and explore trending tags.
- Bookmark your favorite posts and easily manage them from your profile.
- Switch between light and dark modes for a personalized experience.

Get Started

If you're new here, [sign up](#) to create your first post. Already have an account? [Login](#) to continue your pixel art journey.

© 2024 PixelPatch. All Rights Reserved.



https://Pixel-Patch-Presentation.com



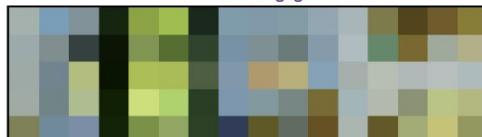
2. Enable Frequent Users to Use Shortcuts



Explore the latest posts and create your own pixel art!

Vincent van Gogh's Artwork

vincentvangogh





3. Offer Informative Feedback

HOME ABOUT Q CREATE POST LOGOUT PROFILE

Create a New Pixel Art Post

Title:

Tags:

Select Color:

Show Grid Lines CLEAR GRID UNDO

POST

© 2024 PixelPatch. All Rights Reserved.



https://Pixel-Patch-Presentation.com



4. Design Dialogue to Yield Closure

HOME

ABOUT



CREATE POST

LOGOUT

PROFILE

SEARCH BY USERNAME OR HASHTAG...

SEARCH

No results found.



https://Pixel-Patch-Presentation.com



4. Design Dialogue to Yield Closure

HOME

ABOUT



CREATE POST

LOGOUT

PROFILE

Your Profile

Here you can view and update your information, manage posts, and more.

Modern art



CONFIRM LOGOUT

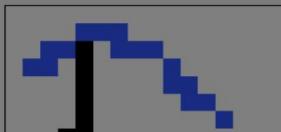
Yes, Logout

Cancel

EDIT TITLE

DELETE POST

Blue palm tree on a purple beach





https://Pixel-Patch-Presentation.com



5. Permit Easy Reversal of Actions



Explore the latest posts and create your own pixel art!

Vincent van Gogh's Artwork

vincentvangogh





6. Permit Easy Reversal of Actions

HOME ABOUT Q CREATE POST LOGOUT PROFILE

Create a New Pixel Art Post

Title:

Tags:

Select Color:


133 41 87
R G B

Show Grid Lines CLEAR GRID UNDO

POST

© 2024 PixelPatch. All Rights Reserved.



7. Support Internal Locus of Control

HOME ABOUT Q CREATE POST LOGOUT PROFILE

Create a New Pixel Art Post

Title:

Tags:

Select Color:

Show Grid Lines CLEAR GRID UNDO

POST

© 2024 PixelPatch. All Rights Reserved.



https://Pixel-Patch-Presentation.com



8. Reduce Short-Term Memory Load

HOME ABOUT CREATE POST LOGOUT PROFILE

pixel patch.

Explore the latest posts and create your own pixel art!

Vincent van Gogh's Artwork
[vincentvangogh](#)





https://Pixel-Patch-Presentation.com



HOME

ABOUT



CREATE POST

LOGOUT

PROFILE

pixel patch.

DEMO

test posts and create your own pixel art!

Vincent van Gogh's Artwork

[vincentvangogh](#)



Conclusion

Completed many aspects of our original project idea. The website turned out to be better than how we imagined it to be. We are all satisfied with the final product of it.

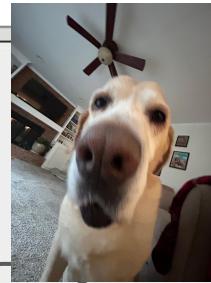
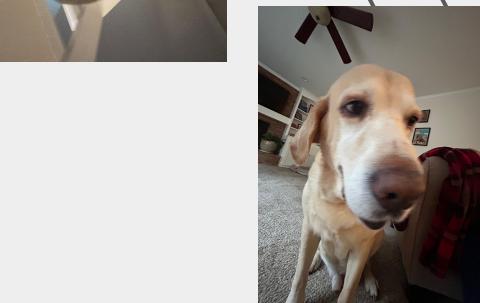
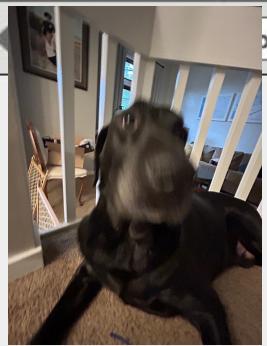
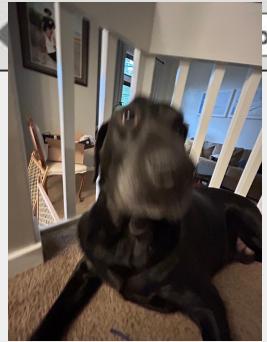


Overall, it was a good learning experience for us and a great group collaboration. Some of us learned new languages and frameworks, while others improved theirs.

Possible Future Improvements

- Smaller fill
- Following feed
- Save and unsave posts
- More pixels
- Animated art
- Block users

A Web Page



← → C

 <https://Pixel-Patch-Presentation.com>

≡





https://Pixel-Patch-Presentation.com



The end but for real this time :)