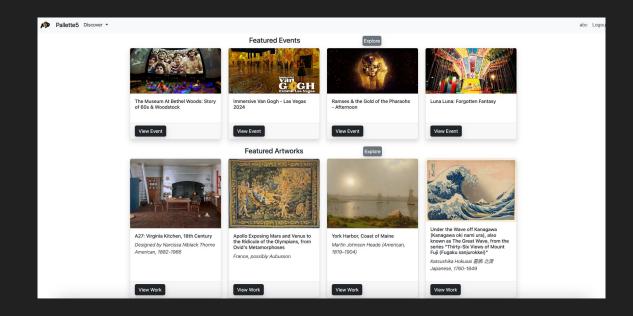
Palette5

Amy Bowers, Nathaniel Covington, Ethan Epperson, Austin McCutcheon, Khizar Pasha, Catherine Xie.



Description of Project

We created a user-interactable artworks page. We allow the user to browse artists, artwork, and local events. The user is then free to follow artists and add a comment to artwork. The user is also able to add events to the event calendar and upload their own artworks, of which show up on the user profile page. The goal of the website is to allow artists to interact with other artists at a more local and personal level.



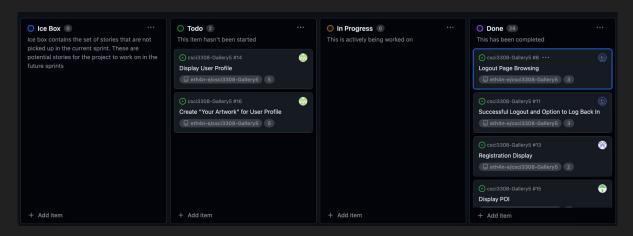
Tools and their respective ratings

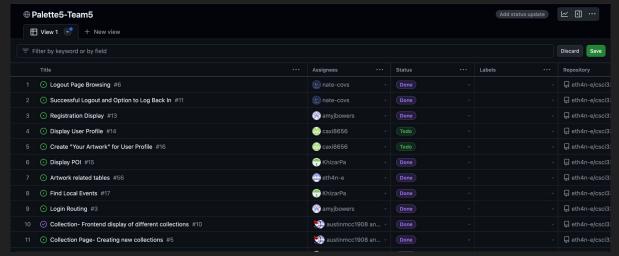
Tool	Tool Used	Rating	Notes
Project Tracker	GitHub	4/5	Helpful for stating responsibilities and story points
vcs	GitHub	5/5	Provided helpful snapshots of project state
Database	PostgreSQL	5/5	Easy implementation of database; to include posting queries / getting information
IDE	VSCode	5/5	Least problematic in entire project
User Interface	Handlebars	4.5/5	Easy to work with for the most part
Application Server	NodeJS	4/5	Javascript, async, npm; Some errors occurred without explicit reasoning, not being typed was annoying.
Testing	Mocha/Chai	3.5/5	Had to go through loopholes to get them to work, for this specific project they weren't much more helpful or time saving then just manually trying to break the application and using print debugging.

Tools and their respective ratings (2)

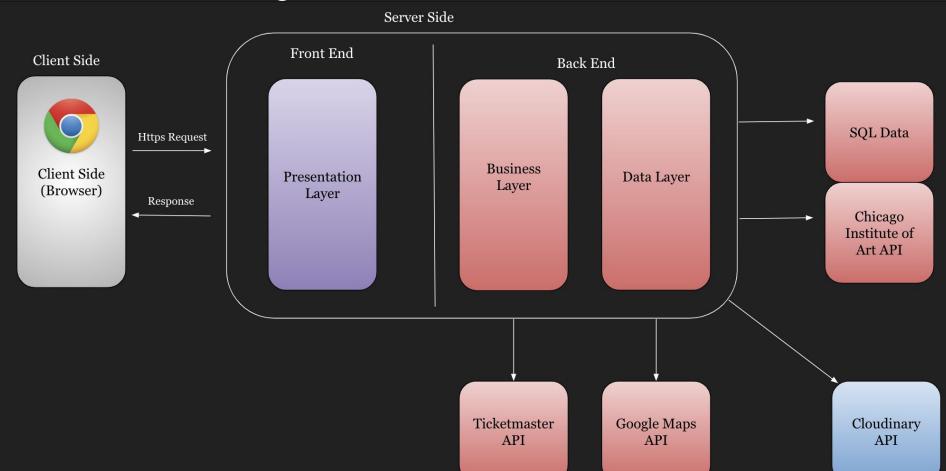
Tool	Tool Used		Rating	Notes
Deployment Environment	LocalHost -Docker	docker.	4/5	Worked as expected
API	Google Maps		4/5	It was a bit tricky to use, but Google has a ton of documentation so it was fine.
API	Ticketmaster ticketma	aster	3/5	Ticketmaster was very finicky about its parameters. Its responses were also cluttered and had to be manually parsed in the back end
API	Art Institute of Chicago	ART INSTITVTE CHICAGO	4/5	Solid artwork calls; did not generate artist's image.
Deployment Environment	Azure	\ Azure	4/5	Had trouble with making an account, otherwise worked fine.
Middleware	Multer	ulter	5/5	Very easy to set up, solid middleware.
Cloud Storage	Cloudinary	ttt) udinary	5/5	Extremely easy to use, more so than Azure. Free.
API	Artsy 🕟	A	1/5	Was very poorly made, often times newer data couldn't be searched, and not much variety in search parameters. Little accurate documentation.

Project Tracking in GitHub





Architecture Diagram



Challenges

Figuring out a way for users to upload

Setting up Multer and the Docker

Actually saving with Multer

```
const multer = require('multer')
743 var port = 3000;
   var storage = multer.diskStorage({ //tell multer where we want to save file
     destination: function (req, file, cb) {
       cb(null, './uploads') // destination to save set to uploads
     filename: function(req, file, cb){
       cb(null, file.originalname)
   var upload = multer({ storage: storage })
   app.use(express.static(__dirname + '/profile'));
    app.use('./uploads', express.static('uploads'));
        // response += "Files uploaded successfully!<br>"
    app.post('/profile-upload-single', upload.single('profile-file'), function (req, res, next) {
     // reg.body will hold the text fields, if there were any
     console.log(reg.file.path)
     // response += "Files uploaded successfully.<br>"
     res.render('pages/profile', {img_src})
```

Challenges With Axios

Generally easy to use, but:

Lots of issues with types, had to typecast a lot

Didn't realize Axios automatically encrypted queries to HTML escape

How to handle multiple axios requests

Challenges with Implementing Follow / Collections

- Implementing a following feature
- Artists Table in SQL
- Ajax vs Axios
 - AJAX: Allowed us to make request from the server without refreshing the browser in order to preserve state
- Updating a follow list

```
document.addEventListener('DOMContentLoaded', () => {
  const followButtons = document.guerySelectorAll('.follow-button');
  //console.log('Dom loaded!!');
  followButtons.forEach(button => {
    button.addEventListener('click', function(event) {
      event.preventDefault();
      const artistId = this.getAttribute('data-artist-id');
      const artistName= document.querySelector('#artistInfo').getAttribute('data-artist
      console.log('Artist name: ' + artistName);
      console.log('ArtistID: ' + artistId);
     $.ajax({
        url: '/follow',
        type: 'POST',
        data: { artistId, artistName },
        success: function(response)
          button.disabled = true;
          button.textContent = 'Following!';
```

 Similar complications with adding an artwork to a collection

```
-- Create user_artists table

CREATE TABLE IF NOT EXISTS user_artists (
    follow_id SERIAL PRIMARY KEY,
    user_id INT REFERENCES users(user_id),
    artist_id VARCHAR(255) REFERENCES artists(artist_id),
    UNIQUE(user_id, artist_id)
);
```

Challenges With APIs

- Artsy and Art Institute of Chicago
 - Usable offset values were not reflective of the total number of results
 - Artsy: artworks did not list the artist
 - Art Institute of Chicago: artists did not have an associated image
- Documentation
 - Inconsistent and unclear
 - Ex: Artsy request for artworks refers to the token in different manners:
 - curl -v "https://api.artsy.net/api/artworks" -H "X-XAPP-Token: XAPP_TOKEN"
 - curl -X GET "https://api.artsy.net/api/artworks?size=5&page=1" -H "accept: application/json" -H "X-Access-Token:

Challenges With Handlebars

Wanted to be able to compare two strings

Making a custom if didn't work, only literals for second param

Had to process in back end

Future Scope and Enhancements

- Infinite scrolling
- Unfollowing users + artists
- Username shown on comments
- User profile pictures
- Social aspect
- Admin editing
- Add user photos to collection

Demo!

Thank you for listening to our presentation.

Thank you!

-Team 5