

Team Blue

CS411 Fall 2022 Prototype Presentation #2

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Team Blue



Carlo Diaz Frontend/Webmaster



Paolo Ihde Frontend/Backend



Brandon Kidd Database Specialist/Backend



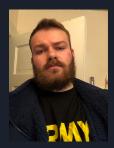
Michael Thompson Backend/Frontend



Autumn Roberts
Team Leader/Frontend



Tobin Zheng Backend / Web Master



Spencer Hite Database Specialist/Backend

Sprint 0 & 1 Task Breakdown

Team:

- Setup Dev Environments
- Setup Cloud Services and Database

Sprint 2 Task Breakdown

Front-End:

- Create Landing Pages
- Create Sign in and login pages

Back-End:

Tested an Image
 Matching algorithm

- Finish GraphQL data table for Settings.
- Start GraphQL data table to hold a images' metadata.
- Generate common
 GraphQL mutations and
 queries to read/write to
 DynamoDB database.
- Launch AWS S3 bucket to hold User Artwork images.

Sprint 3 Task Breakdown

Front-End:

- Create user art upload and gallery
- Create skeleton code for DMCA Generation
- User Account Security and Encryption
- Login Cookies

Back-End:

- Create whitelisting functionality
- Implement Image
 Matching as part of back-end
- Implement detection of Art on NFT Marketplaces
- Create fake NFTs

- Finish GraphQL data table to hold a images' metadata.
- Start GraphQL data table to hold DMCA copyright information.
- Update GraphQL queries and mutations to include any new or modified data tables.

Sprint 4 Task Breakdown

Front-End:

- Execute DMCA
 Takedown Requests
- Account Settings
- Account Profile

Back-End:

- DMCA takedown generation
- Integrate and test
 Gmail API

- Finish GraphQL data table to hold DMCA copyright information
- Start GraphQL data table to hold notification metadata
- Update GraphQL queries and mutations to include any new or modified data tables.

Sprint 5 Task Breakdown

Front-End:

- Art Protection Guidelines
- App Tutorial
- Generate PushNotification

Back-End:

- DMCA Cataloging
- DMCA Tracking

- Finish GraphQL data table to hold Notification metadata
- Database maintenance

Sprint 6 Task Breakdown

Team:

- Create Testing Environment
- Prototype Test
- Project Cleanup

Features Roadmap

	Т		NOV		DEC	JAN '23
Sprints	Sprint 2	Sprint 3	Sprint 4	Sprint 5, Sprint 6		
> Mathematical BL411-33 Setup dev environments						
> 1 BL411-34 Setup cloud services and database						
> S BL411-35 Create fake NFTs for testing purposes						
> S BL411-36 NFT detection backend work						
> BL411-37 Implement image matching						
> 1 BL411-38 Implement account creation						
> BL411-39 Implement art upload and gallery						
> S BL411-40 Implement DMCA takedown		I				
> S BL411-41 Setup user notifications and DMCA tracki						
> BL411-42 Create static pages for app tutorial/guide						
> BL411-43 Implement testing						
> La BL411-50 Create landing pages						

Team Roles and Responsibilities

- Scrum Masters Autumn, Tobin
 - Sprint planning
 - Alternating leaders for team meetings (Scrum, Stand-ups, etc.)
- Frontend Developer Carlo, Autumn, Paolo
 - AWS Amplify, ReactJS, CSS development
 - App Feel and overarching themes
 - User Accessibility
- Backend Developer Michael, Tobin
 - Lambda, Step Functions, Python, OpenCV
 - Implementation of algorithms:
 - Whitelisting
 - Counterfeit art detection
 - Image matching
 - DMCA
- Database Developer Brandon Kidd, Spencer Hite
 - o AWS Amplify Database implementation and maintenance.
 - o GraphQL mutations/queries implementation and maintenance.

Accountability Synopsis

- Honor System:
 - I pledge to support the Honor System of Old Dominion University. I will refrain from any form of
 academic dishonesty or deception, such as cheating or plagiarism. I am aware that as a member of
 the academic community it is my responsibility to turn in all suspected violations of the Honor
 Code. I will report to a hearing if summoned.
- And keeping track of commits and pushes as well as completed tasks on Jira.

Features Completed

~ 🖸	BL411-33 Setup dev environments		
	■ BL411 28 Setup version control (git)	D	ONE
	BL411 27 Setup dev environment	D	ONE
~ []	BL411-34 Setup cloud services and database		
	■ BL411_30 Startup AWS Amplify and Database	DONE	BK
	■ BL411 29 Configure AWS, Create Team Account	DONE	BK
	■ BL411-45 Add Data Models (user/profile information) to Amplify Backend Environment	DONE	BK
	■ BL411_16 Access Database/S3 for image reading	DONE	SP
	■ BL411 22 Access Database for user information reading	DONE	BK
~ 5	BL411-37 Implement image matching		
	BL411_19 Invoke image matcher to test matching values	DONE	(a)
~ []	BL411-50 Create landing pages		
	■ BL411-49 Create skeleton code for sign-up page	DONE	AR
	■ BL411-48 Create skeleton code for sign-in page	DONE	0
	■ BL411-51 Create skeleton code for landing page	DONE	0

Features in Progress

v 🗗	BL411-34 Setup cloud services and database		
	■ BL411-52 Add Art/DMCA data models and complete the Database Schema	IN PROGRESS	BK
~ []	BL411-35 Create fake NFTs for testing purposes		
	■ BL411-20 Make fake NFT to test whitelisting	IN PROGRESS	•
17	■ BL411-18 Make fake NFT to test flagging system	IN PROGRESS	(III)
v 🗗	BL411-36 NFT detection backend work		
	■ BL411-13 Whitelisting of minted NFT	IN PROGRESS	0
	■ BL411-12 Provision of NFT information correlating to user artwork	IN PROGRESS	1
	■ BL411-7 Detection of art on NFT marketplaces	IN PROGRESS	1
63	BL411-37 Implement image matching		
~ 4	BL411-38 Implement account creation		
	■ BL411-1 Account sign-in to access app	IN PROGRESS	(1)
- 11	■ BL411-11 User account security and encryption	IN PROGRESS	SH
~ []	BL411-39 Implement art upload and gallery		
	■ BL411-5 Art upload	IN PROGRESS	(AR)

Prototype Changes

- Upload and Gallery now one page
- Created Logo
- Changed gallery database from Dynamo to S3
- Utilized amplify features
- Major changes to Art Detection feature:
 - o Images will not be batched
 - Future of periodic searches unclear
- Adjusted weights for Image Matching Algorithm

Near-term Priorities

- Login Cookies
- Integrate algorithms into workflow / step functions
- Finish database implementation

Concerns

- Art Gallery separating and showing art based on user
- Time constraints
- Team Availability
- Difficulty curve
 - Step Functions / AWS Lambda