

Erin Trainor

Project Manager

- Environmental Science & Marketing Background
- Party Planner and Cupcake Baker
- Lego Enthusiast



Curve

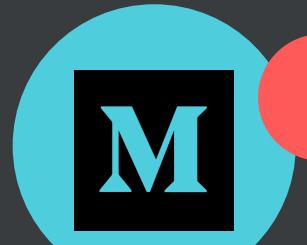
Personal and professional evolution... measured



Based on Medium's open source Snowflake Project, this application represents the interdisciplinary efforts of an amazing group of twenty C# and JavaScript developers over a 4 day time period.



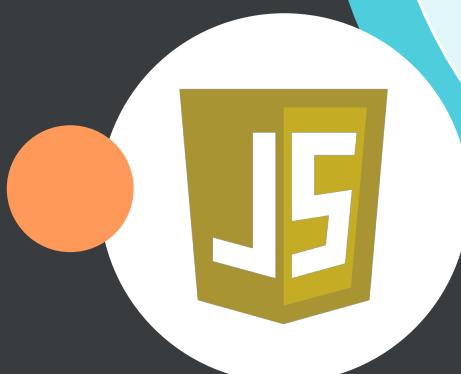
Demo



M



C#



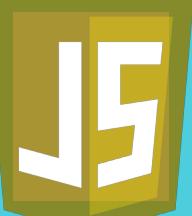
JS



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Team Organization





Project Tracking

JavaScript and .NET



Project Reporting



Projects / Curie / CUR board
Day 4 Sprint
(Get Help)

Only My Issues Recently Updated

0/000 10/00 In Progress Needs Review Done

- CUR-13 in PROGRESS 2 sub-tasks Utilize GraphQL JS

Other Issues 30 issues

Divide the work to populate the static content among group members
Professional Competency App CUR-01

Write method for adding new references to database
Professional Competency App CUR-21

Write methods to update references info and reviews in database
Professional Competency App CUR-25

Create queries to get data back from the database
Professional Competency App CUR-33

Research Auth0 and jwt
Professional Competency App CUR-73

Implement roles-based authorization policies to gate database CRUD ops
Professional Competency App CUR-18

Implement roles-based policies for site authorization
Professional Competency App CUR-27

Get a specific user's data
Professional Competency App CUR-63

Implement OAuth signup via GitHub
Professional Competency App CUR-12

Agree on page structures for scoring content - JS Teams
Professional Competency App CUR-60

Create Manager model
Professional Competency App CUR-75

Implement Login page
Professional Competency App CUR-24

Create a login page
Professional Competency App CUR-68

Implement roles-based authorization
Professional Competency App CUR-6

Determine responsibility for Auth0 and S-handshake process
Professional Competency App CUR-8

JS Testing - Front-End
Competency App CUR-17

Final data persistence
Professional Competency App CUR-5

Frontend - CUR

Backend - CUR

CUR-13

CUR-21

CUR-25

CUR-33

CUR-73

CUR-18

CUR-27

CUR-63

CUR-12

CUR-60

CUR-75

CUR-24

CUR-68

CUR-6

CUR-8

CUR-17

CUR-5

CUR-13

CUR-21

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CUR-73

CUR-18

CUR-27

CUR-63

CUR-12

CUR-60

CUR-75

CUR-24

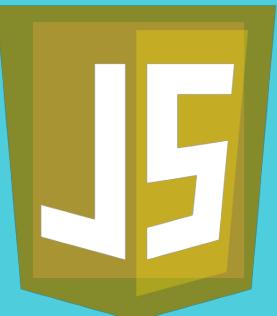
CUR-68

CUR-6

CUR-8

CUR-17

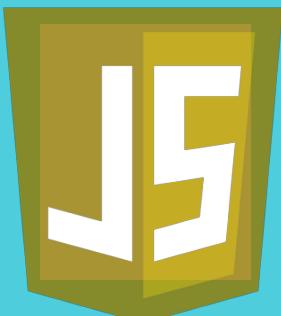
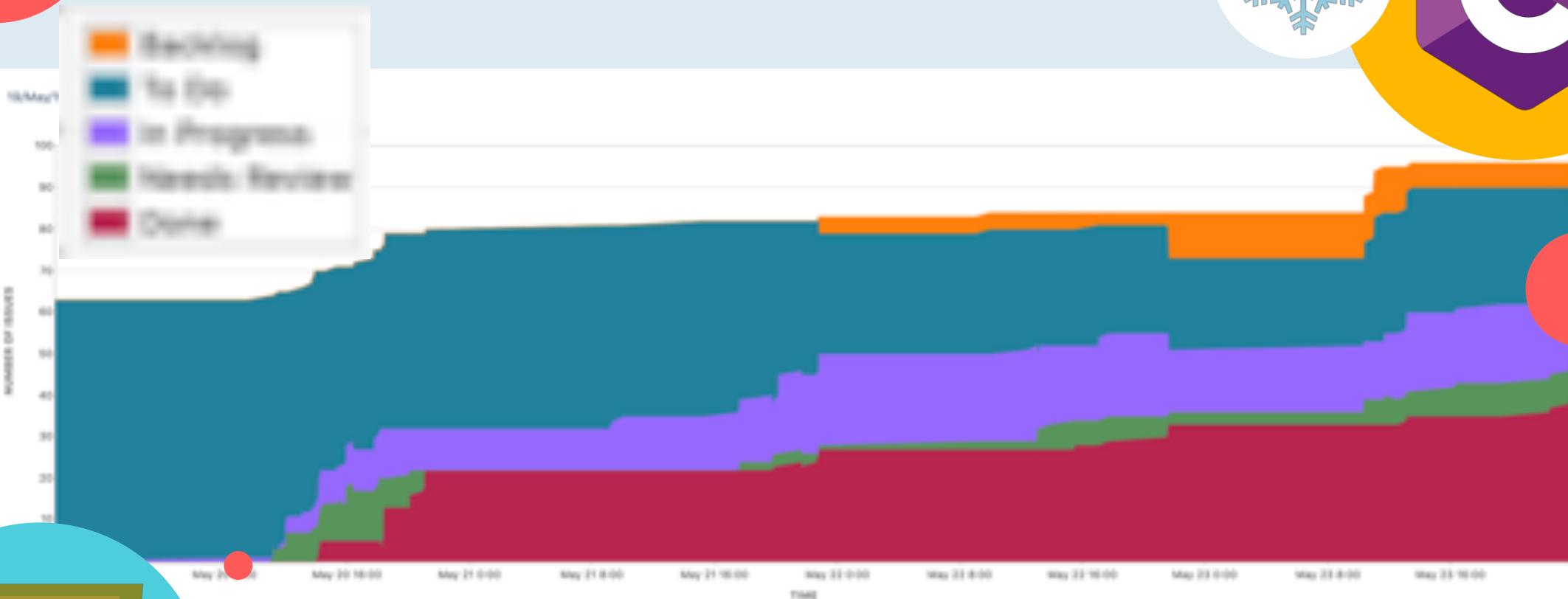
CUR-5

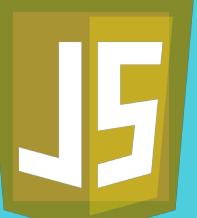


Project Board



Jira





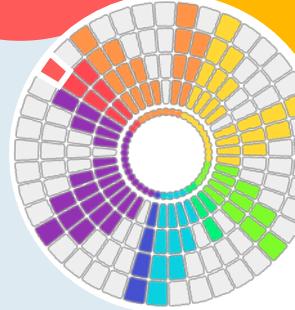
Integration Team

JavaScript and .NET





Our Role



Facilitate communication, tasks, and resources between teams... be the glue!





Greg Dukes

Backend Integration Liaison

- Drives Manual Transmission
- Comfy Jammie-Pant Enthusiast
- Enjoys Camping

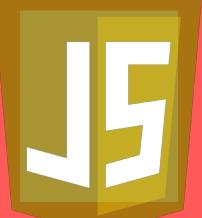




Jason Burns

Auth Team Liaison

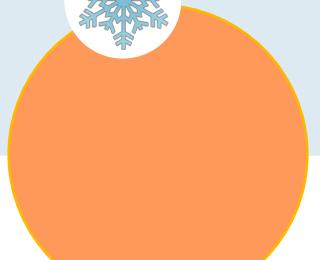
- Graphs
- Graphics
- Dungeon Master



Chris Merritt

UI/UX Team Liaison

- Went to University of Redlands
- Enjoys Hiking and Traveling
- Hawaiian Shirt Enthusiast

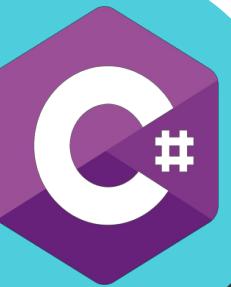




Andrew Curtis

Data Team Liaison

- Former Tech Project Manager
- Published Latinist
- Keyboard Shortcut Aficionado



Teamwork!

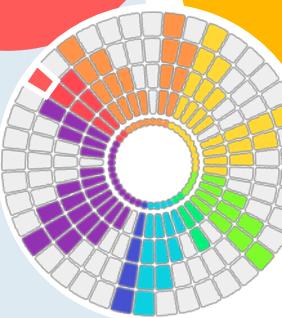
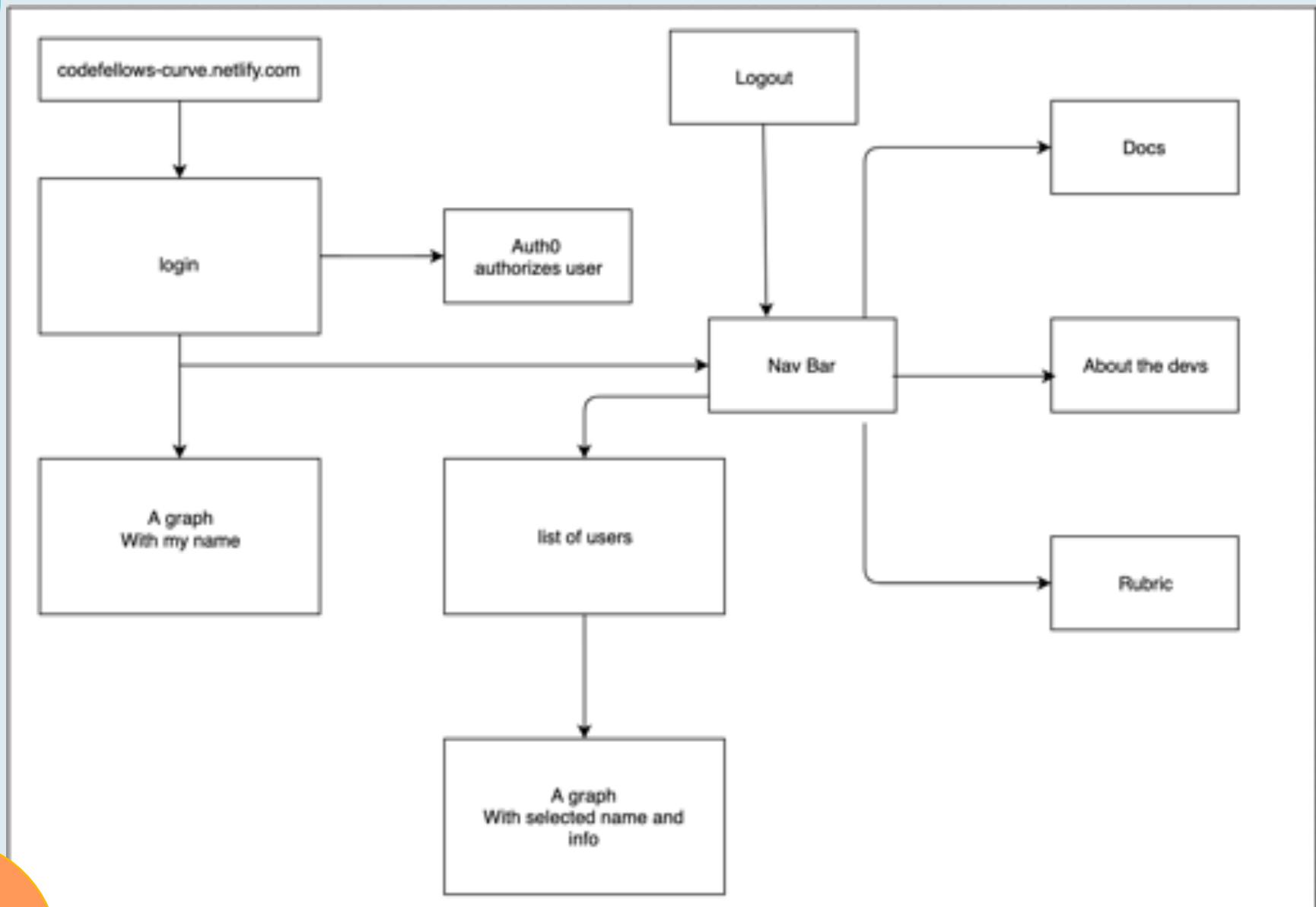
JavaScript and .NET

Tools Used

JavaScript and .NET



Application Flow

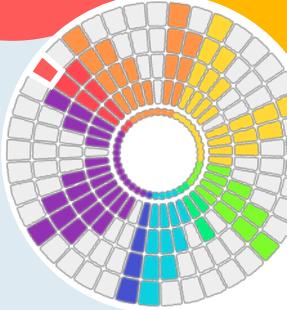


Challenges

- Division of labor between JS teams
- Learning a large variety of new tools
- Project scale
- Ambiguity in desired future functionality



Successes



Team Communication

Documented Something We Can Hand to Others

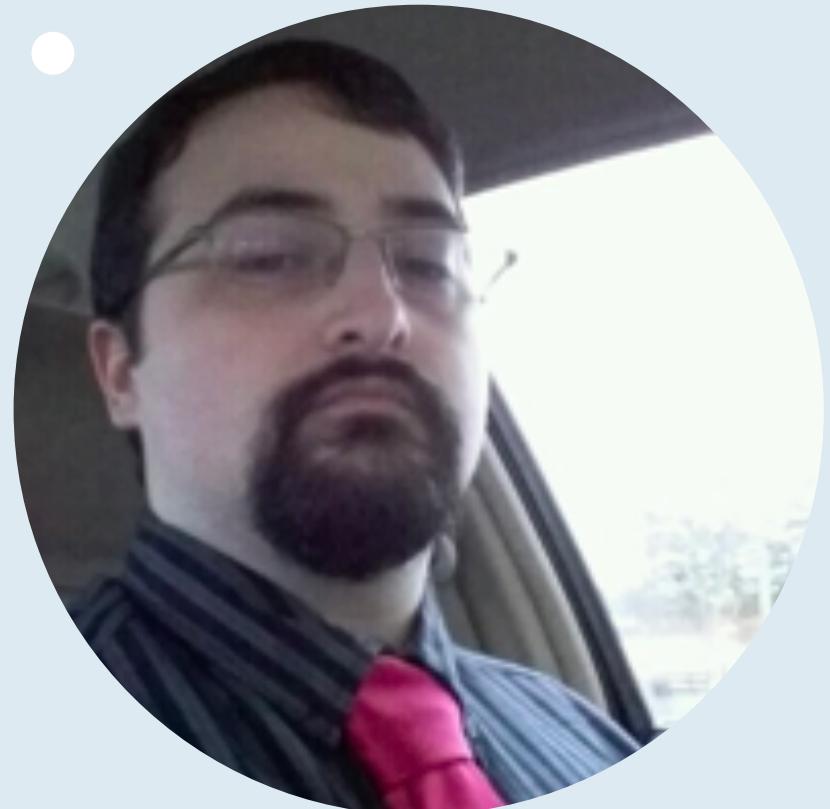
The Group Project Experience



Data Team

.NET





Dan Logerstedt

Data Team Lead

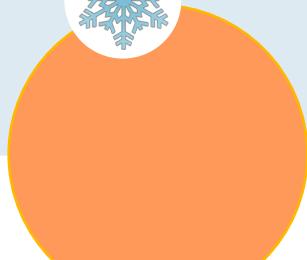
- Veteran
- Loves the Outdoors
- Tabletop Gaming Enthusiast



Ian Gifford

Data Team

- Veteran
- PC Hardware Performance Enthusiast
- Loves Automotive Performance





Chris Morton

Data Team

- Veteran
- Avid Reader
- Camping Enthusiast

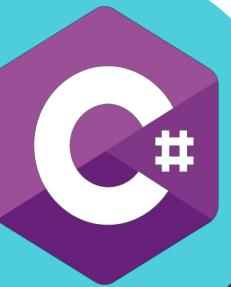


Mike Kelly

Data Team

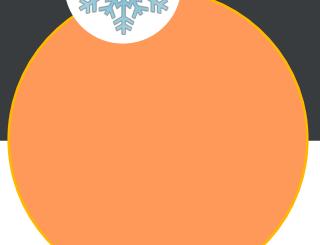
- 11 Year Army Veteran
- DOD Trained Biomedical Equipment Technician
- Amateur Musician and Stock Trader





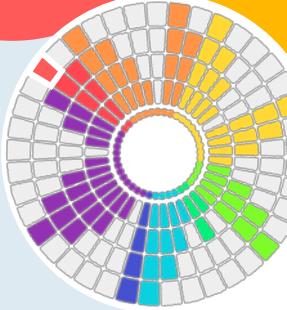
Teamwork!

.NET





Our Task

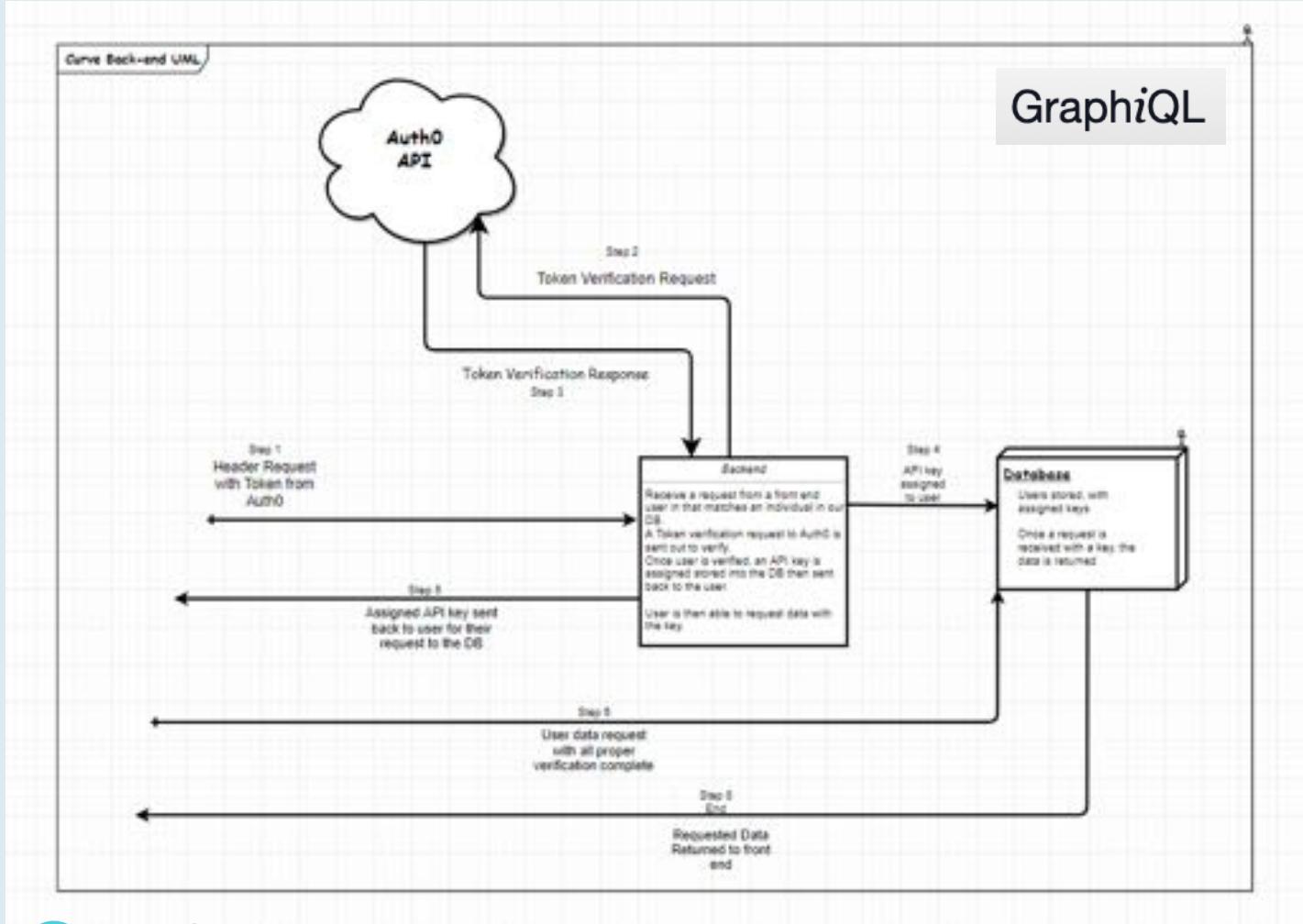
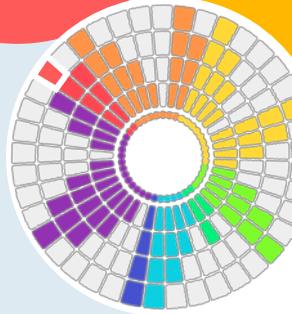


Store and serve scores data on the professional competency reviews for Code Fellows staff and students.

Create data models that the Curve front-end app could access and modify.

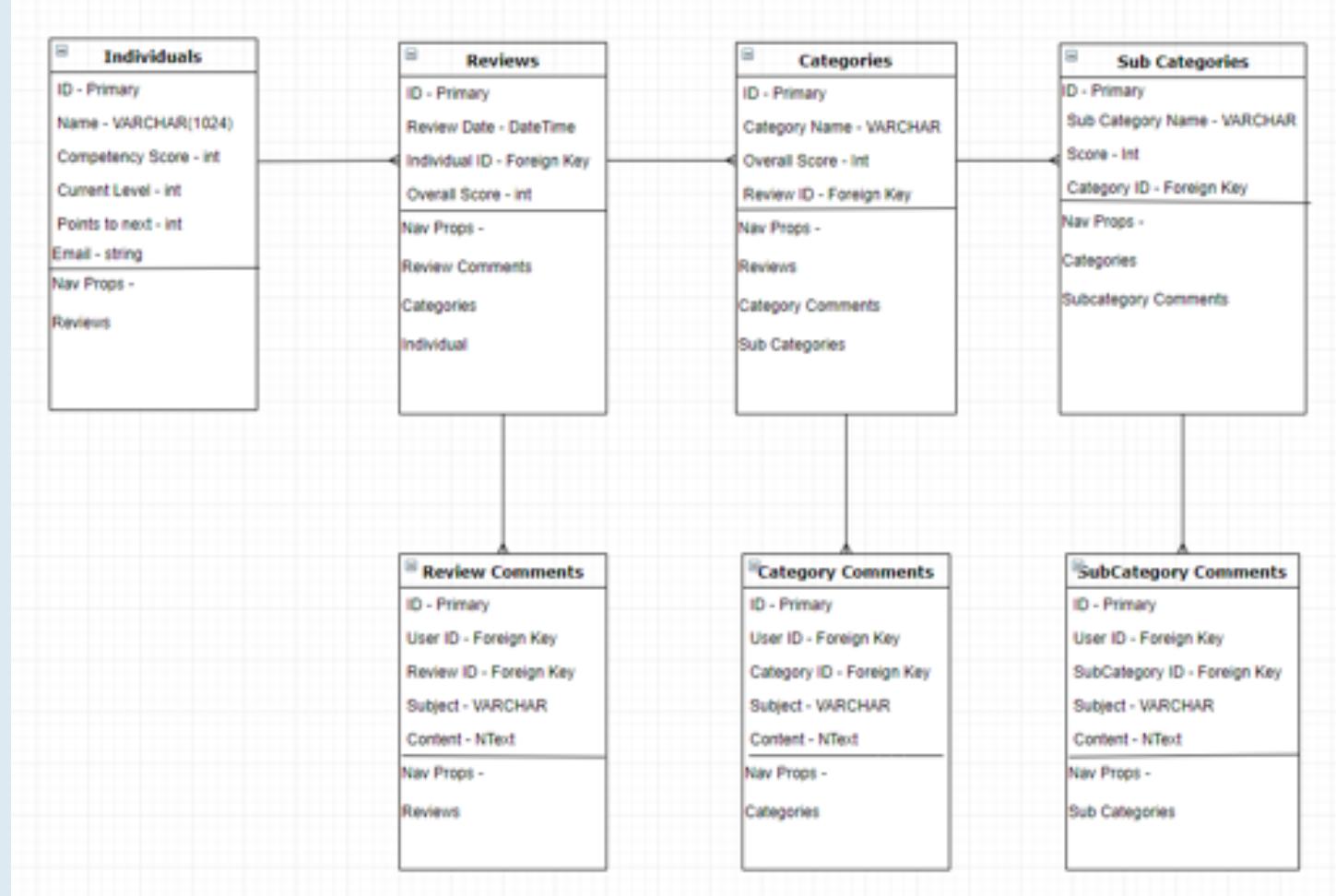
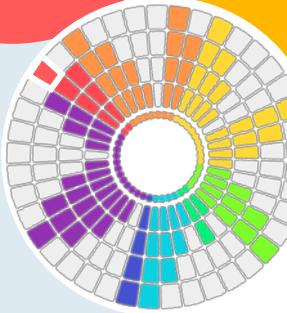


How We Connect





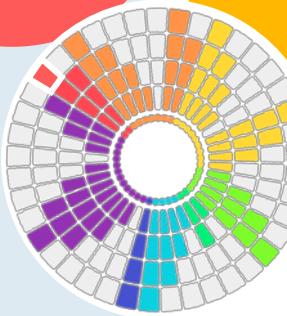
Database Schema





Challenges

- Shifting framework and design requirements
- Working with the constraints client requested tools and frameworks
- Converting from RESTful to GraphQL API architecture

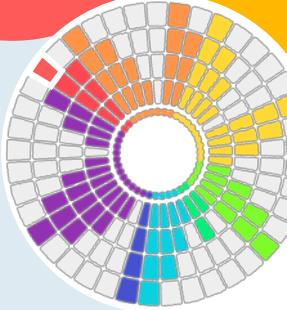


Successes

- Built our first GraphQL API
- Seeded our database with complex mock data
- Reached stretch goal of GraphQL mutations
- Forward thinking database schema



The Hand-Off



TODO: Data Team GraphQL Edition

- Implement a return for delete functionality
- More in-depth testing of GraphQL Endpoint
- Build Side-by-side Rest API?
- Implement more policy controls and security



Auth Team

.NET





Tanner Percival

Auth Team Lead

- Hoodie Aficionado
- Been in the Learning Industry for 15 Years
- Downhill Mountain Bike Enthusiast





Ben Taylor

Auth Team

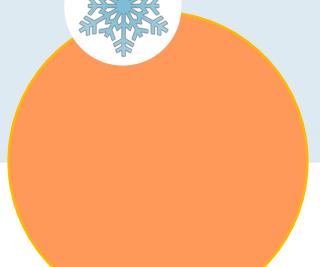
- First Game Console: Sega Genesis
- Vocal Range: Baritone
- Former Editor In Chief of NovaKnows.com



Andrew Roska

Auth Team

- Customer Focused Background
- Loves to Teach Others
- Passionate about games and anime





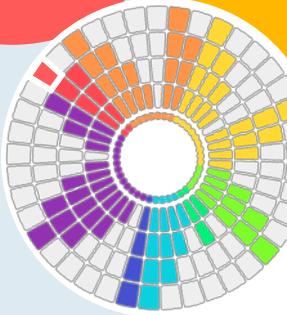
Teamwork!

.NET





Our Task

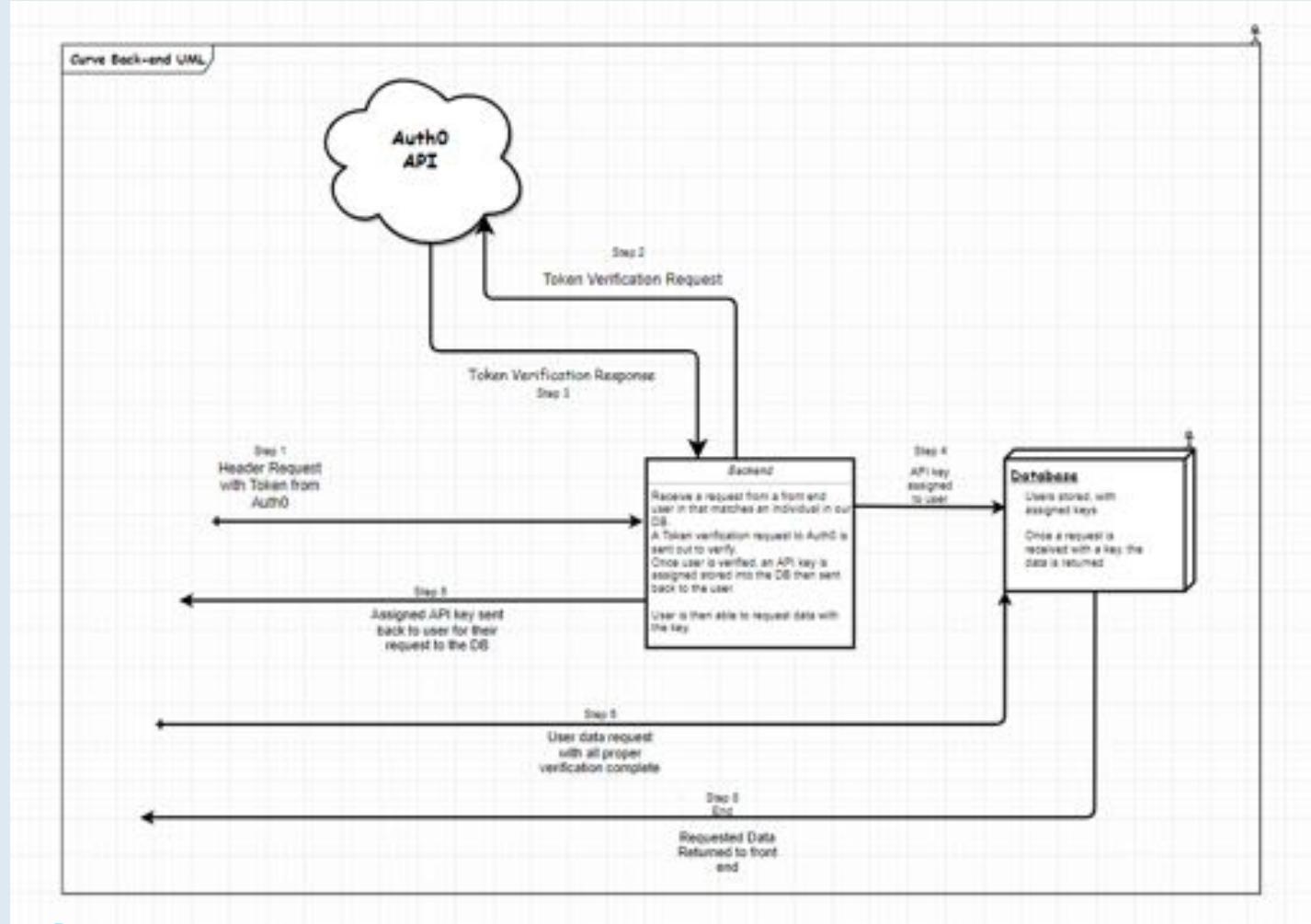
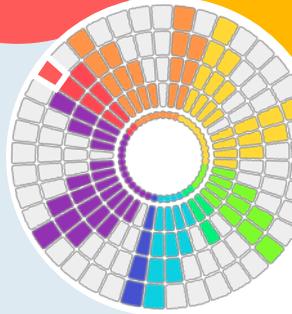


Provided an access security layer for the application

Authenticate a user based on roles such as administrator, faculty, and student.

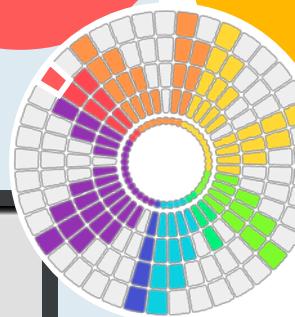


How We Connect

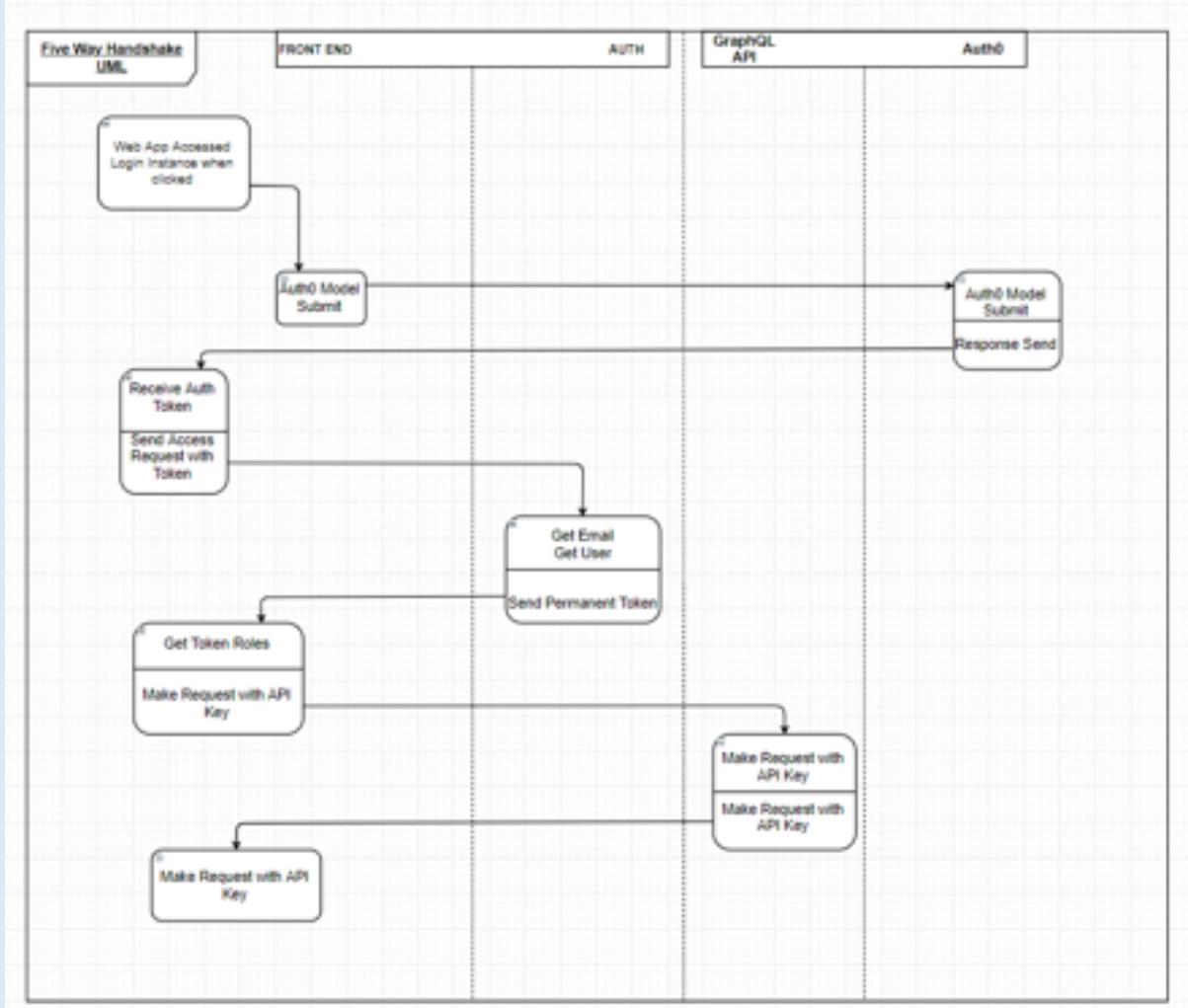




Epic Problem Solving!

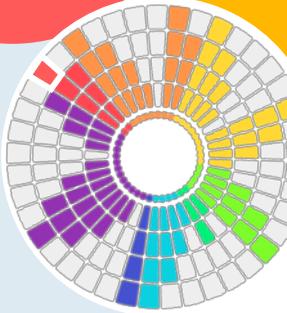


The Solution



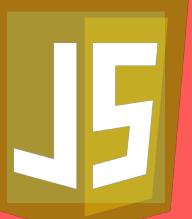


The Hand-Off



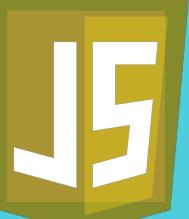
TODO: Auth Edition

- Streamline SQL Database
- Remove Legacy Code
- Increase Security for Authorization
- Implement more roles, (manager and admin)



Backend Integration Team

JavaScript



Spencer Hirata

Backend Integration Team Lead

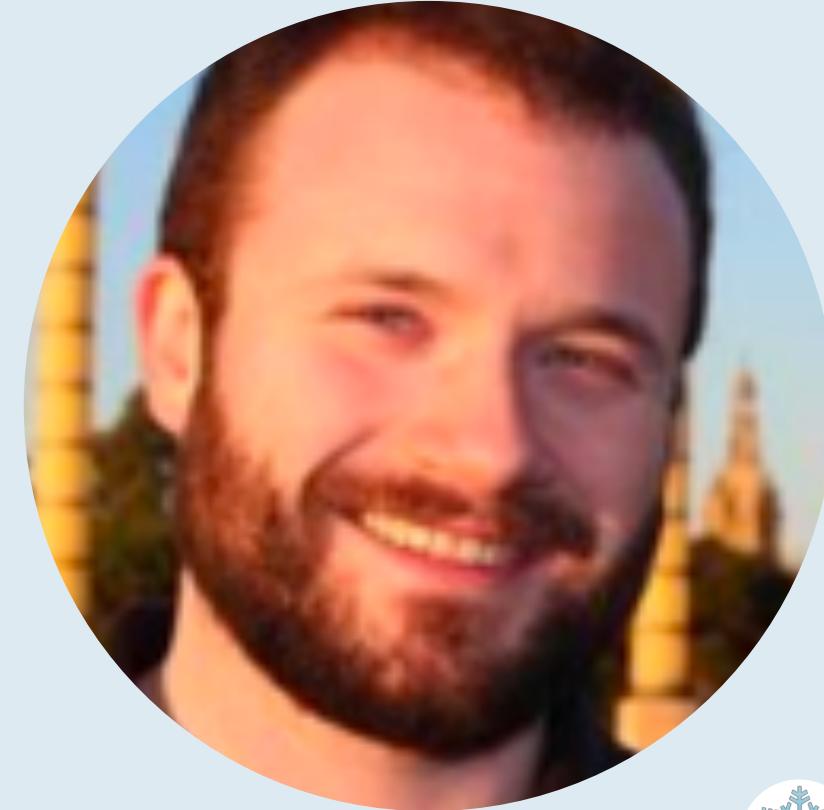
- Swim Coach
- Intense Gamer
- Will Beat You At Badminton

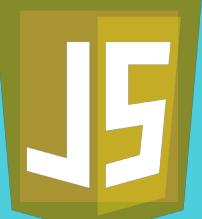


Joseph Wolfe

Backend Integration Team

- World Traveler
- Political Philosopher
- Wild Magic Sorceress

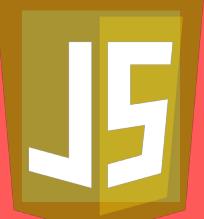




Jon Gentry

Backend Integration Team

- Loves Movies
- Enjoys Traveling
- Analog Enthusiast



Cory Henderson

Backend Integration Team

- Adventure Cyclist
- Wilderness Lake Swimmer
- Budget Airline Ticket Seeker





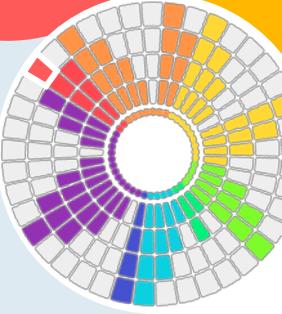
Teamwork!

.NET





Our Task

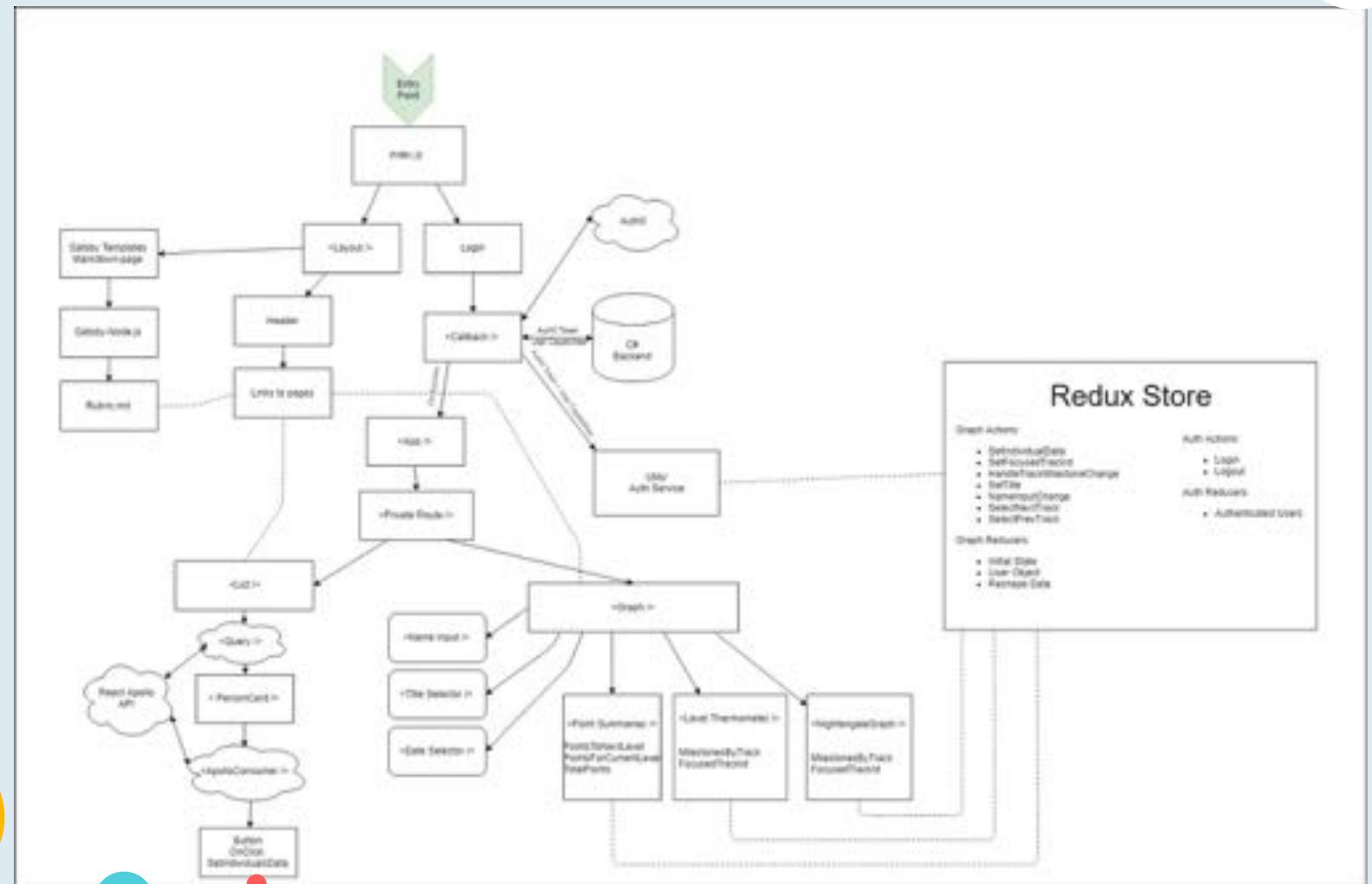
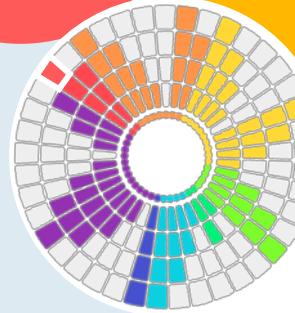


Work with both the UI/UX Team and the Data Team to fetch data points from the database and populate the Redux Store with that data

Render specific information when sent an authorized user



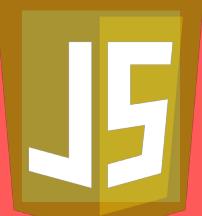
How We Connect



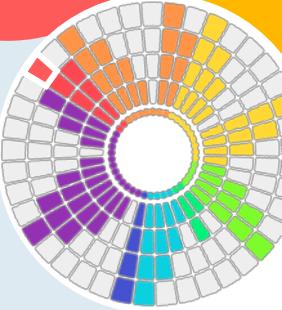
Challenges

- Gatsby only renders static pages ... then Apollo
- CORS issues with database queries
- Ensuring the queried data is shaped correctly for the Redux store
- Monolithic markdown

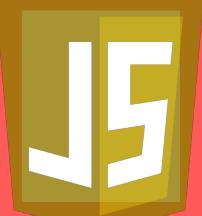




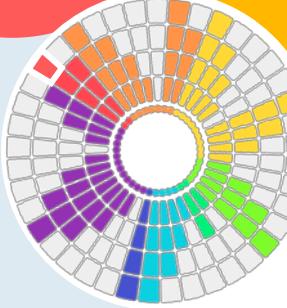
Successes



- SOLID docs - all components and action/reducer functions w/ examples
- Basic unit testing for all components
- Great positive morale!

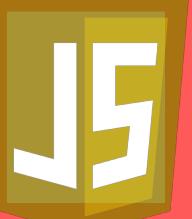


The Hand-Off



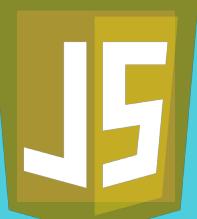
TODO: Backend Integration Team Edition

- Implement a method to generate a single rubric from 240+ small markdown files
- Limit view of all reviews to admin role
- Redirect admin to list of all users on login but regular users see only their own graph



UI/UX Team

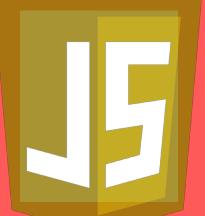
JavaScript



Vanessa Wei

UI/UX Team Lead

- Masters Degree in Philosophy
- Record Keeper of 400m Run in High School
- Travel Enthusiast

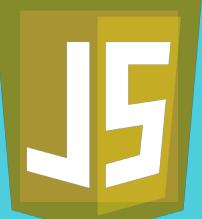


Billy Bunn

UI/UX Team

- California transplant
- University of Washington alumnus
- Recovering public accountant

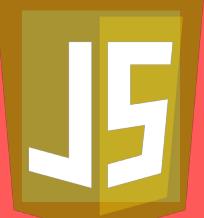




Aaron Ferris

UI/UX Team

- BS Mechanical Engineering
- Ultimate Frisbee Coach
- Tabletop Gaming Enthusiast



Alex White

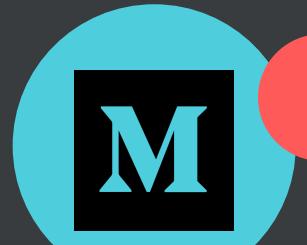
UI/UX Team

- Avid Technologist
- Voracious Reader
- Board Game Master





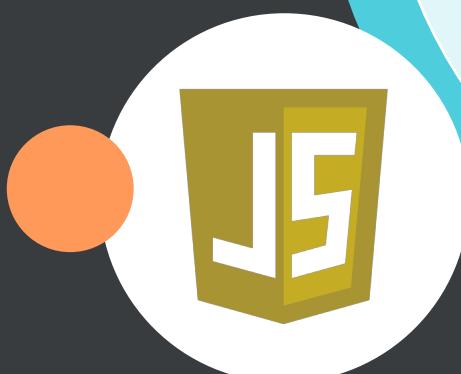
Demo



M



C#



JS



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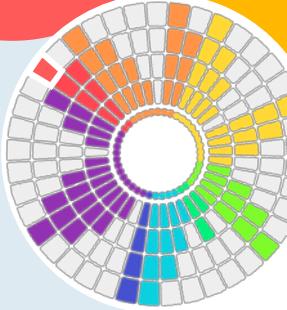
Teamwork!

.NET





Our Task

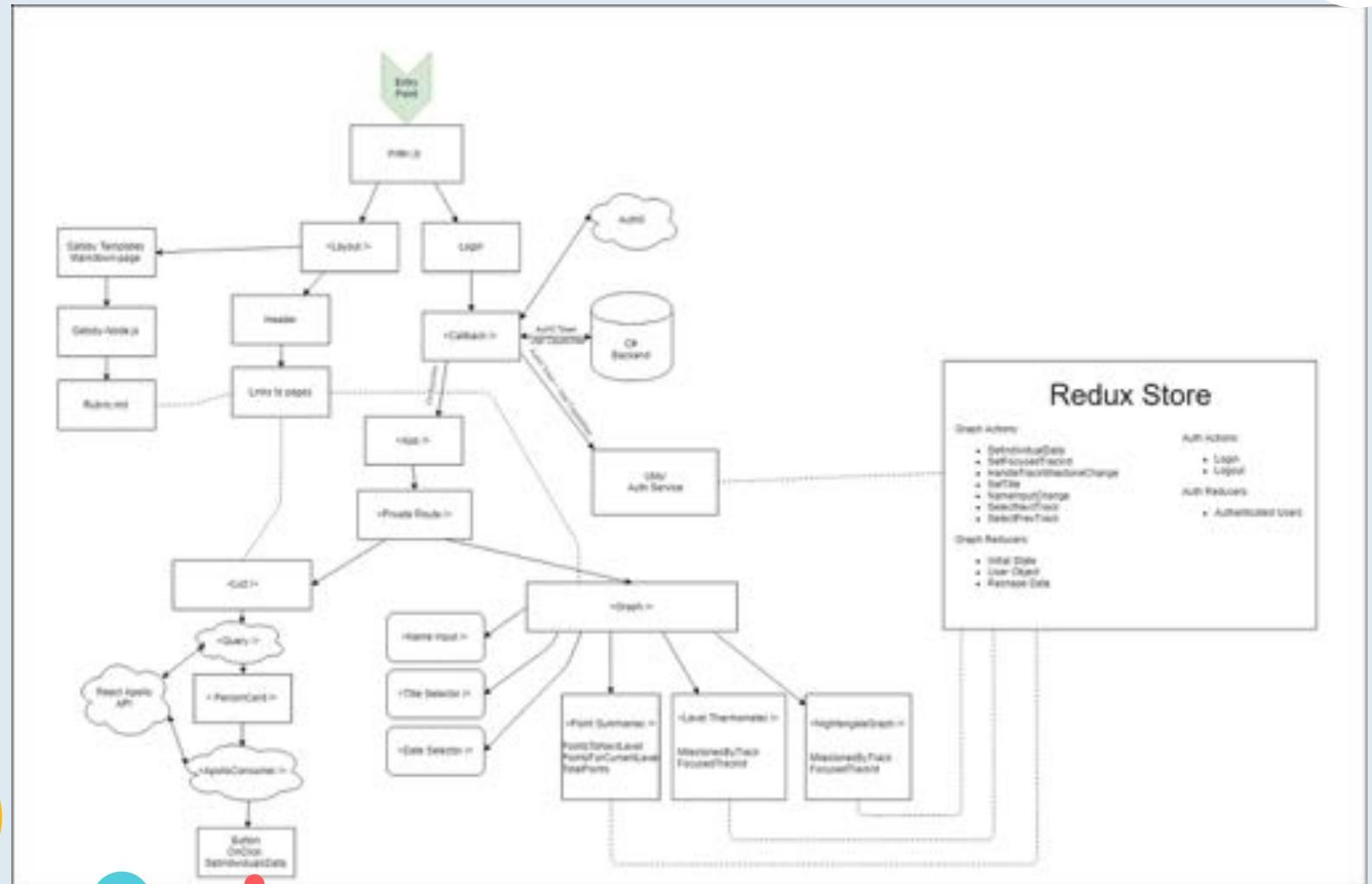
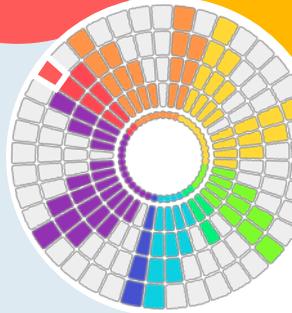


Assist with the refactor of the original Medium app
to use Gatsby JS.

Create an awesome user experience and beautiful
application

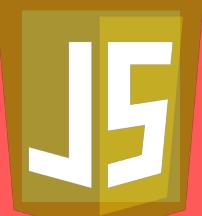


How We Connect

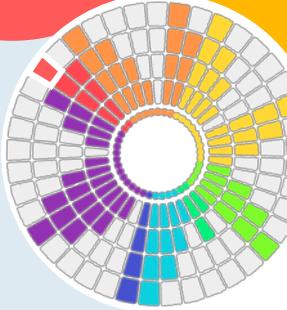


Challenges

- Refactoring the Medium Application:
 - 3 Possible Paths
- Changing & Understanding Project Scope
- Shifting Data Shapes



Successes

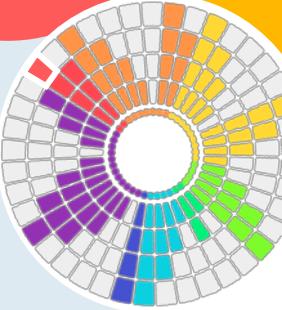


- Refactored initial site to Gatsby
- Received Data from the Backend
- Populated Data to the D3 Graphs



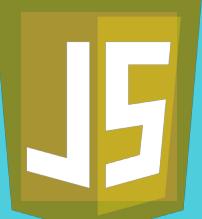


The Hand-Off



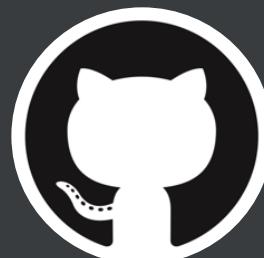
TODO: UI/UX Team Edition

- Post Methods to Update Scores
- Additional CRUD Operations
- Refactor Medium's D3 Functions



Looking Forward

JavaScript and .NET

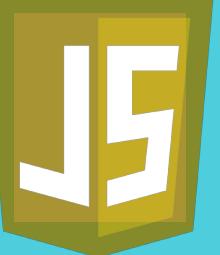




Our Rubber Ducks

JavaScript and .NET





Teaching Assistants

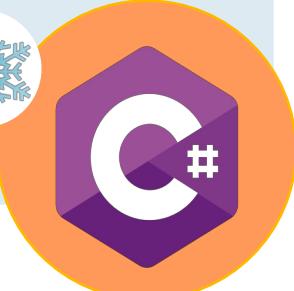


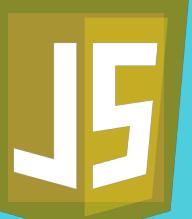
Hannah Ingham

Caity Heath

Nate Tibbals

Have you tried explaining it to the rubber duck?





Our clients

JavaScript and .NET

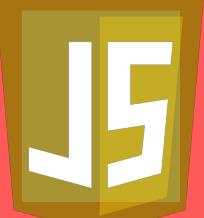




Amanda Iverson

.NET Instructor

Fun fun = new Fun();



John Cokos

JavaScript Instructor

"Your code sucks... and that's ok"



