

# SENIOR DEVELOPMENT PROJECT

---

Megan Moore



# AGENDA

Project introduction

Primary goals

Objectives

Growth

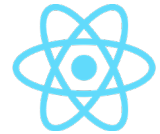
Execution | Demonstration

Questions | Analysis

# INTRODUCTION

**Primary goal: Build connections with past professional work and newly acquired skills.**

- Add functionality to an existing website powered by a content management system.
- Explore connecting APIs and external databases to a site using a CMS.

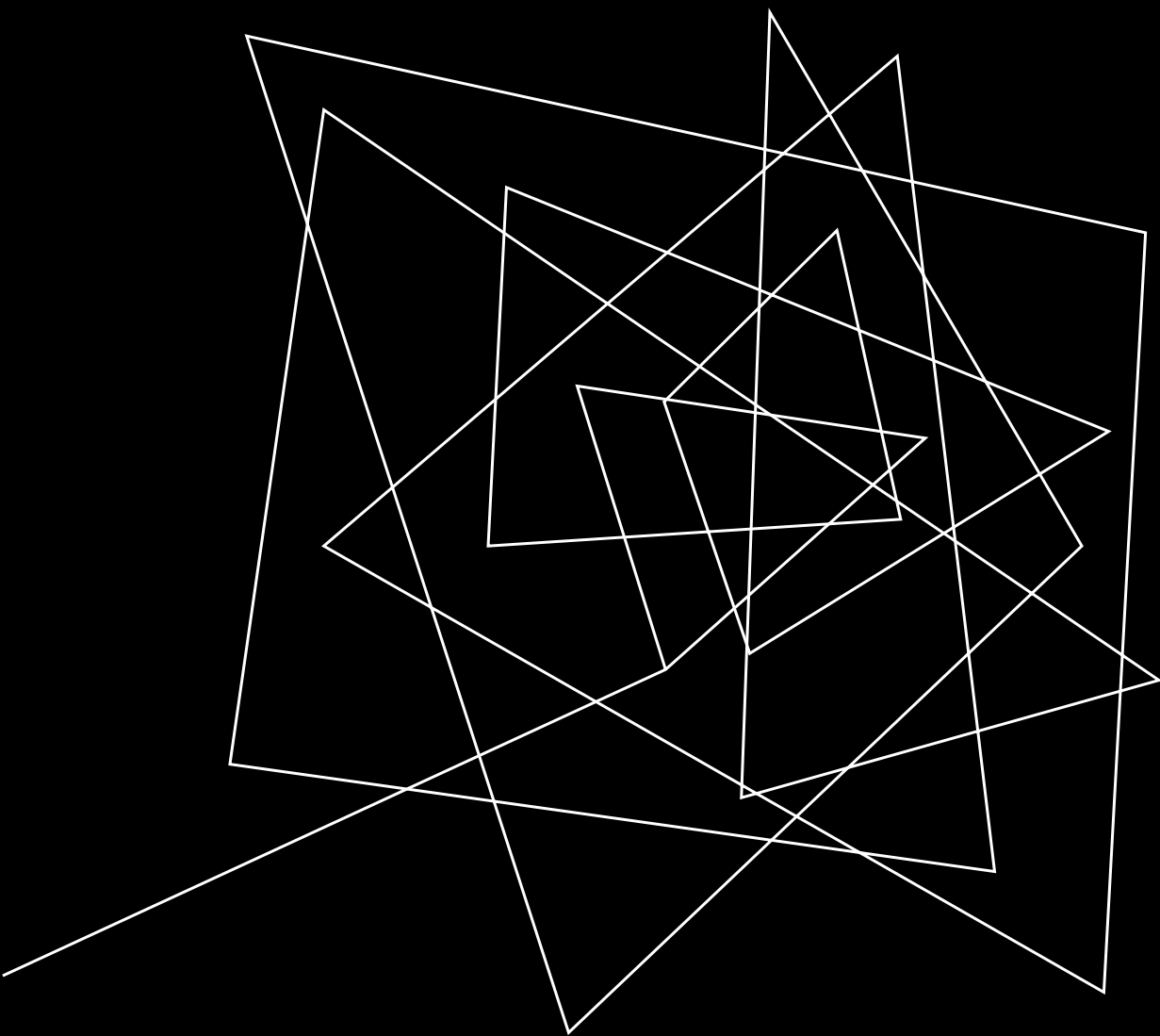




I decided to create a D&D hub for my son and his friends. None of them can afford to pay for the features they're interested in on D&D Beyond, and creating this would allow me to do the following:

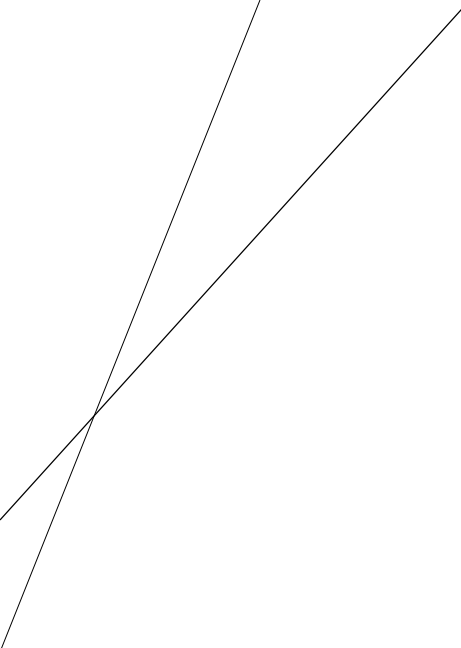

- create connections between databases and a boilerplate WordPress site
- explore connection possibilities with existing plugins
- create an environment where users can upload and post content with little to no administrative access.

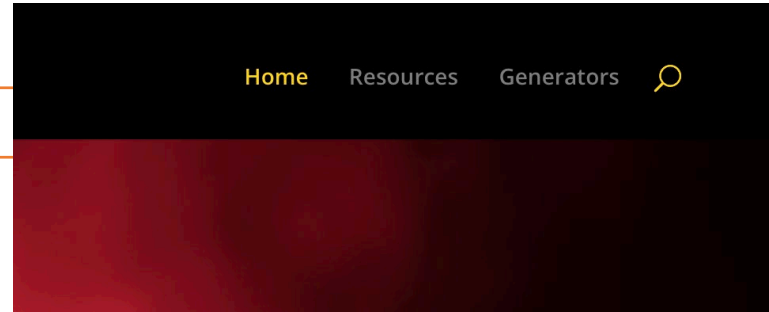
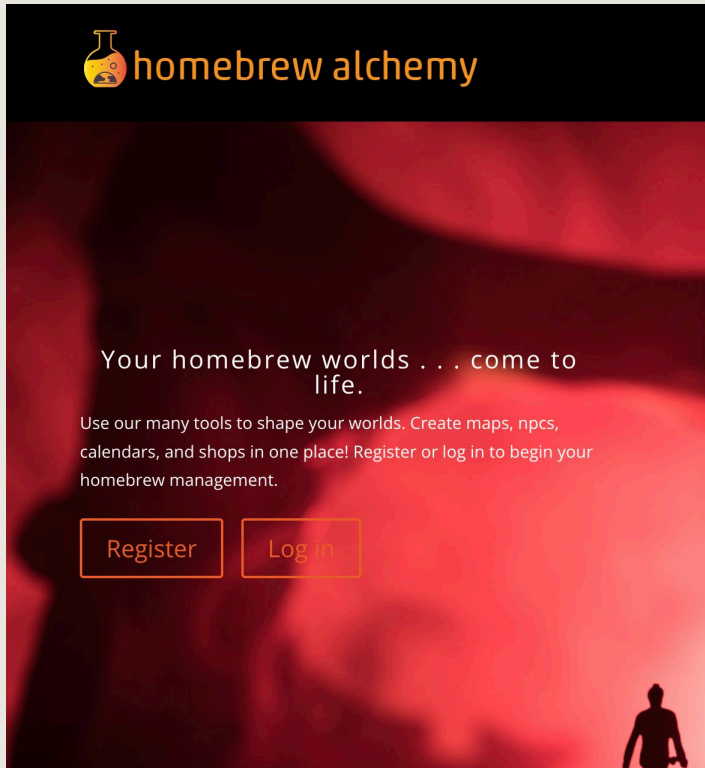




---

# PRIMARY GOALS

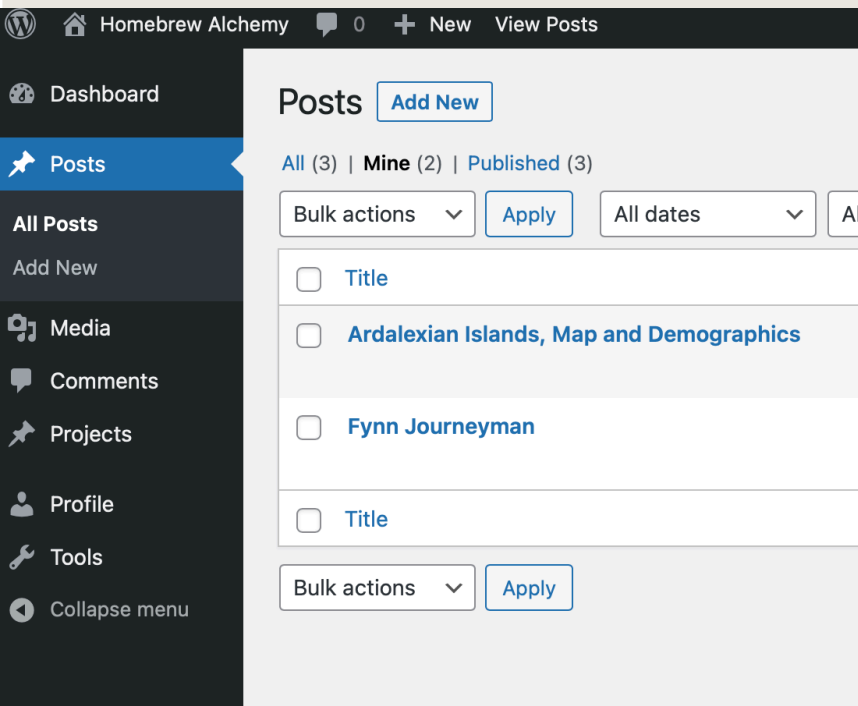
- 
- 
1. Create a basic WordPress site that looks clean and professional.
  2. Develop the user registration process, enabling login and upload of content. Let content be searchable when user grants permission.
  3. Utilize both an external API and uploaded JSON files to power a character generator resource.
  4. Create a hub of interactive resources.



## OBJECTIVE 1

### SITE CREATION AND SETUP

1. Create a website on WordPress containing the following main pages:
  - Home
  - Resources
  - Generators
2. Site is live and has a good flow of information. Everything displayed works.
3. Site is deployed, responsive, and styling is consistent.



## OBJECTIVE 2

### USER REGISTRATION AND PERMISSIONS

1. User is able to register, log in, and has permission to add or update their own content.
2. User is able to upload and display content: lore, maps and images.
3. Content that has been marked shareable by the user can be searched.





#### NPC generator

Tired of overthinking your NPCs? Fill in the fields that matter to you, and let our randomizer take care of the rest!



#### Shop Generator

Need to randomly fill a shop? Maybe not so random? Fill in the items you want and we'll take care of the rest.

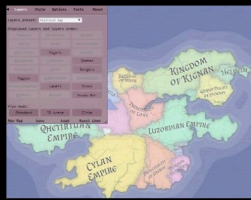
## OBJECTIVE 3 GENERATOR RESOURCES

1. A random NPC generator is created using uploaded JSON files which interactively generates a character with name and various traits.
2. A random shop generator utilizing an external API is used to create a shop generator which randomly fills a shop with contents as requested by category.
3. Both generators work and are responsive.



### Inkarnate

Turn your ideas into incredible fantasy maps with Inkarnate's easy-to-use online map-making platform.



### Azgaar's Fantasy Map Generator v1.88.00

A free open source tool which generates fantasy maps. You may use auto-generated maps as they are or edit them.

Number of dice

Type of die:

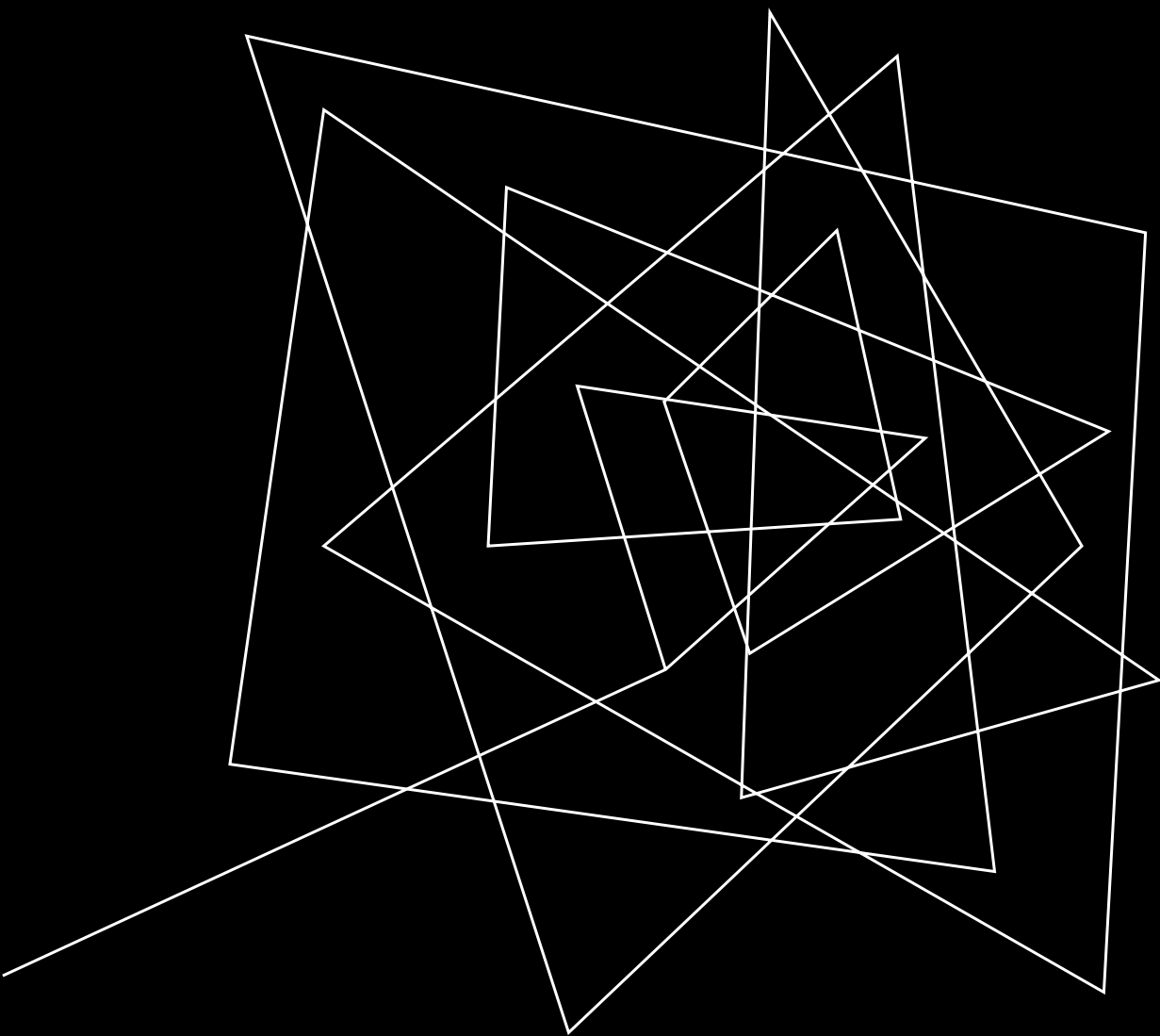
Modifier

Display all rolls? ☐

Result:

## OBJECTIVE 4 FREE RESOURCE HUB

1. Links with featured free resources appear, including links to featured content created by users.
2. Page displays a dice roll simulator plugin which is consistent with style guides.
3. All resources and content work and are responsive.
4. User-created content supports comments.



# AREAS OF GROWTH

---

---

SENIOR WEB DEVELOPMENT PROJECT



## HONED SKILLS

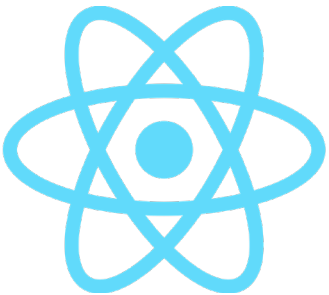
- Enlarged knowledge base of WordPress CMS best practices.
- Increased ability to perform CRUD operations.
- Further practice connecting to external APIs.
- Creation and utilization of child themes.
- Understanding of PHP and JavaScript languages, especially the limitations and appropriate uses of each within the WordPress CMS.

## ACQUIRED SKILLS

- Knowledge of and experience with WordPress plugins, such as WP Forms, Custom Fields, Code Snippets and WP Get API.
- Connection to an external API through a CMS.
- Navigating and altering WP theme files.
- Insertion of custom JS and PHP code into a website run by a CMS.
- Creation of a WP plugin created with Python.
- Creation of a React fetch application.
- Exploration of jQuery and Bootstrap components.
- Exploration of WordPress action and filter hooks.
- Creation and usage of a web scraper.



`_wpgetapi()`





# ATTRIBUTIONS

IBRAHIMA NDAW

MDN WEB DOCS

GITHUBCONNECTED

FREE CODE CAMP

FLATICON

MEGHAN BUCHER

\_WPGETAPI()

OPEN5E DJANGO  
REST API

MDBGO DOCS

JETPACK DOCS



# EXECUTION | DEMONSTRATION



# QUESTIONS | ANALYSIS

---