

Team Magic Queries: Michael Sinclair, Hunter Allen, Elliana Petrin, Brendan Kendall, Calvin Crawford

Project Description and User Stories

1. Problem statement: Magic: The Gathering players want to order cards from their local game store (LGS) Merlyn's with an easy to use and aesthetically pleasing user interface

2. Intender user: Casual Magic: The Gathering players in the Spokane area who have a good idea of the cards they want to purchase.

3. User problem: The current website presents obstacles that make it difficult and unintuitive to purchase cards. The user has to be knowledgeable about the cards they want, because they have to remember what sets those cards are part of, and cards are often part of *many* sets. Users may find it difficult to navigate through the current card database (an Excel sheet) to find the cards they're interested in. In addition, the user has to go to their emailing service and compose an email asking for the cards they want in Merlyn's required format. Because Merlyn asks for details like name, color, expansion, etc., users will need to use multiple tabs at once to reference the Excel sheet and also write the email. Obviously, that is not an ideal online shopping experience.

4. Solution to benefit the user: Our solution will give the user a robust search bar to easily find the cards they are interested in purchasing. They will also be able to see a visual representation of the card along with a concise amount of information about that card. After selecting the cards that they are interested in purchasing, the user will be brought to an email form that composes the email for them in a format that is easy for employees to understand. Additionally, the user will be able to edit the email manually if they so wish.

5. General Flow: The user goes to the website, and clicks on the Magic: The Gathering link. They can then search for cards using the search bar, or search based on criteria like set or type. They then select the cards they need and add them to a cart. When they're finished shopping, they can view their cart and remove items or adjust quantity. Once they are satisfied they are brought to an in-browser email form that generates their order in Merlyn's format with a price estimate and they can finish the process by hitting send email.

6. What is the general nature of the solution: The pre-existing website will still be up, but the MtG card ordering page will link to our new website which handles the card ordering.

7. List the general software components you envision playing a role: Astro for the web framework, and Tailwind for the CSS framework. Excel will be used by the employees to add and remove cards, as they do currently. We will also be using the Scryfall API for handling searches.

8. General hardware components you envision playing a role: Merlyn's already has a computer that they host the website from.

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9. Similar solutions that are inadequate: Using a database to help facilitate the card orders. This would not work because John Waite wants to keep overhead low and we know he would not like to train employees on using a new system. Additionally, handling payments online is not in the scope of this project because of the qualifications and requirements needed for securing online payments. Replacing the entire website itself is out of the scope, because John Waite wants improved user experience, not an entirely new website.

Magic Queries User Stories

As a customer, I want to order cards from Merlyn's online.
As a customer, I want a nice modern user interface to buy from.
As a customer, I want to find cards easily by name/set/type/etc.
As a customer, I want to add cards to my cart.
As a customer, I want to be able to edit my cart.
As a customer, I want the order form filled out for me from the cards in my cart.
As an employee, I want to be able to update inventory on the existing Excel sheet.
As an employee, I want customers' orders to be in the correct format

Magic Queries Glossary

- **Magic: The Gathering (MTG):**
 - A collectible card game created by mathematician Richard Garfield and published by Wizards of the Coast. Players use decks representing magical spells, creatures, and artifacts to defeat their opponents.
- **Local Game Store (LGS):**
 - A physical retail store that specializes in selling tabletop games, including Magic: The Gathering cards.
- **User Interface (UI):**
 - The visual elements and interactive features of the website that allow users to interact with and navigate through the content.
- **Search Bar:**
 - A feature on the website that allows users to input keywords and search for specific Magic: The Gathering cards.
- **Astro:**
 - Astro is a framework for building websites, web applications, dynamic server APIs, and more.
- **Tailwind:**

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- A utility-first CSS framework that aids in building modern and responsive user interfaces.
- **Scryfall API:**
 - A MTG card database and API for searching for cards.