

**PROJECT CHARTER PLAN**  
**<MTGSEARCH>**



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## **EXECUTIVE SUMMARY**

Since I started college, I have been playing a card game called Magic the Gathering (MTG) and many search engines already exist that accomplish the goal of letting players search for specific cards in the field of over 30,000+. MTGSearch is a personal project of mine to create a search engine of my own to test my technical skills and knowledge I have acquired while pursuing my degree.

## **PROJECT PURPOSE/JUSTIFICATION**

### **Need/Case**

MTGSearch project has been created so that players of MTG can have other alternatives to card search engines than the ones that already dominate the space today. This project has no inherit cost to it other than man hours dedicated to working on the project.

### **Objectives**

The objectives for this project are in direct support of my plan to create a functioning card search engine alternative.

- Design and test a new search engine within the next 90 days
- Complete implementation the new search engine within the next 120 days

## **PROJECT DESCRIPTION**

MTGSearch is a card search engine that will allow players to search for MTG cards based on different criteria that they can input. The website will initially be hosted through GitHub and use Scryfall's API system to gather the card data.

### **Project Objectives and Success Criteria**

The objectives which mutually support the milestones and deliverables for this project have been identified. In order to achieve success on the MTGSearch project, the following objectives must be met:

- Develop a website homepage for users to use to search for cards
- Complete list of required search criteria (Card Mana Cost, Card Name, Card Colors, Card Types, Card Text) Additional ones added based on time.
- Create a page for the searched card that displays card image and most recent card price and latest printings.

### Requirements

This project must meet the following list of requirements to achieve success.

- The solution must be tested and work without errors

Additional requirements may be added as necessary, with project sponsor approval, as the project moves forward.

### Constraints

The following constraints pertain to the MTGSearch project:

- Work will be done solo
- Work will be done during free time between classes and work

### Assumptions

The following are a list of assumptions. Upon agreement and signature of this document, all parties acknowledge that these assumptions are true and correct:

- This project has the support of the capstone professors
- Capstone professors will provide knowledge when applicable

### Preliminary Scope Statement

The MTGSearch project will include the design, testing, and delivery of card game search engine for Magic the Gathering (MTG). All personnel, hardware, and software resources will be managed by me. All project work will be independent of daily and ongoing operations for school and work. This project will conclude when the final report is submitted within the end of the spring 2022 semester.

### Risks

The following risks for the MTGSearch project have been identified. The project manager will determine and employ the necessary risk mitigation/avoidance strategies as appropriate to minimize the likelihood of these risks:

- Project may not be a comparable alternative to other MTG search engines
- Work may proceed at slow pace due to inexperience with API's

## PROJECT DELIVERABLES

The following deliverables must be met upon the successful completion of the ISA project. Any changes to these deliverables must be approved by the project sponsor.

- Fully deployed MTG search engine
- Documentation listing project steps
- Recommendation list for future additions to search engine

## SUMMARY MILESTONE SCHEDULE

The project Summary Milestone Schedule is presented below. As requirements are more clearly defined this schedule may be modified. Any changes will be communicated through project status meetings by the project manager.

| Summary Milestone Schedule – List key project milestones relative to project start. |                             |
|---|-----------------------------|
| Project Milestone   | Target Date<br>(mm/dd/yyyy) |
| • Project Start   | 10/15/2021                  |
| • Complete Solution Design  | 12/30/2021                  |
| • Acquire Hardware and Software   | 1/15/2022                   |
| • Complete Solution Simulation with New Hardware/Software                           | 3/30/2022                   |
| • Complete Solution Simulation and Testing  | 4/15/2022                   |
| • Deploy Solution   | 04/20/2022                  |
| • Project Complete  | 04/30/2022                  |

## SUMMARY BUDGET

No budget for project besides man hours worked.

### **PROJECT APPROVAL REQUIREMENTS**

Success for the MTGSearch project will be achieved when a tested MTG card search engine, is fully completed within the time constraints and objectives indicated in this charter.

Additionally, this measure of success must include a recommendation list for future additions to the search engine. Success will be determined by the Project Leader, Liam Daniell, who will also authorize completion of the project.

### **PROJECT MANAGER**

Liam Daniell is the named Project Manager for the duration of the MTGSearch Project. Mr. Doe's responsibility is to manage all project tasks, scheduling, and communication regarding the MTGSearch project. His team, consisting of Himself with additional knowledge from capstone professors Dr. Bauer and Dr. Pierce.



## **AUTHORIZATION**

Approved by the Project Sponsor:

Liam Daniell \_\_\_\_\_ Date: 11/26/21

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