

# **EDH Budget Builder:**

## **Team 11 Project Charter**

### **Team Members:**

Aaron Brown, Ariya Lau, Aaron Lynn, E.J. Wennerberg, Michael Zhang

### **Problem Statement:**

Magic: The Gathering (MTG) is a popular and famously complicated trading card game about magical combat that is played by millions around the world. One of the most popular ways to play MTG is a format known as “EDH” in which players must have decks that consist of 100 cards, any may only have one of any given card in this deck. As of May 2019, there are over 18,000 unique cards in MTG. As such, building a deck around cards that synergize together can be difficult, and while websites and online services exist to assist players in building the decks that players will eventually purchase and use, these websites do not check for incomplete or illegal decks. Furthermore, many of these sites do not allow the user to filter or organize cards based on price; for in addition to being one of the most complicated card games in existence, MTG is also one of the most expensive card games to play. An average EDH deck typically ranges from \$200-\$500 USD. Therefore, our application seeks to allow newer players to enter the format by allowing them to filter cards based on their prices so that they can build an effective deck on a tighter budget.

### **Project Objectives:**

- Allow users to search all cards that are legal in the EDH format of MTG
- Allow users to search and filter cards by price, abilities, and type
- Allow users to create prototype decks by adding and removing cards as they see fit
- Notify users if their deck is valid or invalid based on the number of cards currently added
- Allow users to save and share their decks with other users via link

### **Stakeholders:**

**Developers:** Aaron Brown, Ariya Lau, Aaron Lynn, E.J. Wennerberg, Michael Zhang

**Project Owners:** Aaron Brown, Ariya Lau, Aaron Lynn, E.J. Wennerberg, Michael Zhang

**Project Coordinator:** ???

**Users:** Fans of MTG that participate in the EDH format of the game both competitively and casually who are looking for a tool to prototype decks or come up with ideas for decks on a potentially tight budget.

## **Deliverables:**

A Firebase-backed web application using Typescript, React.js, HTML, CSS, Bootstrap, and two APIs containing information about MTG cards:

- Card abilities and type: <https://docs.magicthegathering.io/>
- Card price: <https://scryfall.com/docs/api>