

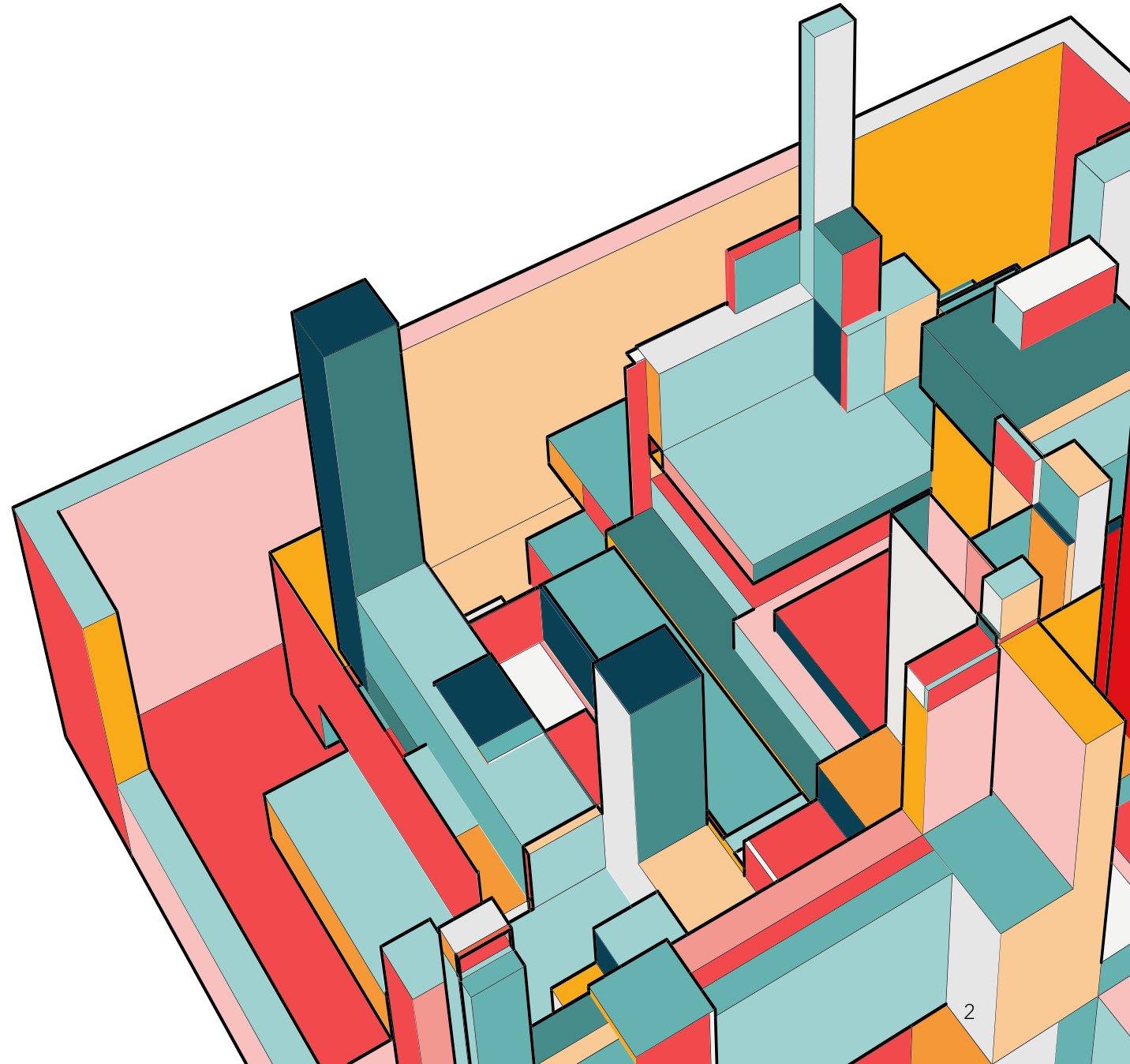


CATALOGUE YA DECK

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ABOUT THE PROJECT

The main project is to be able to scan in Trading cards from the game Magic The Gathering and be able to read off specific data from them like card name, card type (monster, spell etc) and have it displayed on screen and be able to be saved and searched through by the user.





RESEARCH

YOLOv5

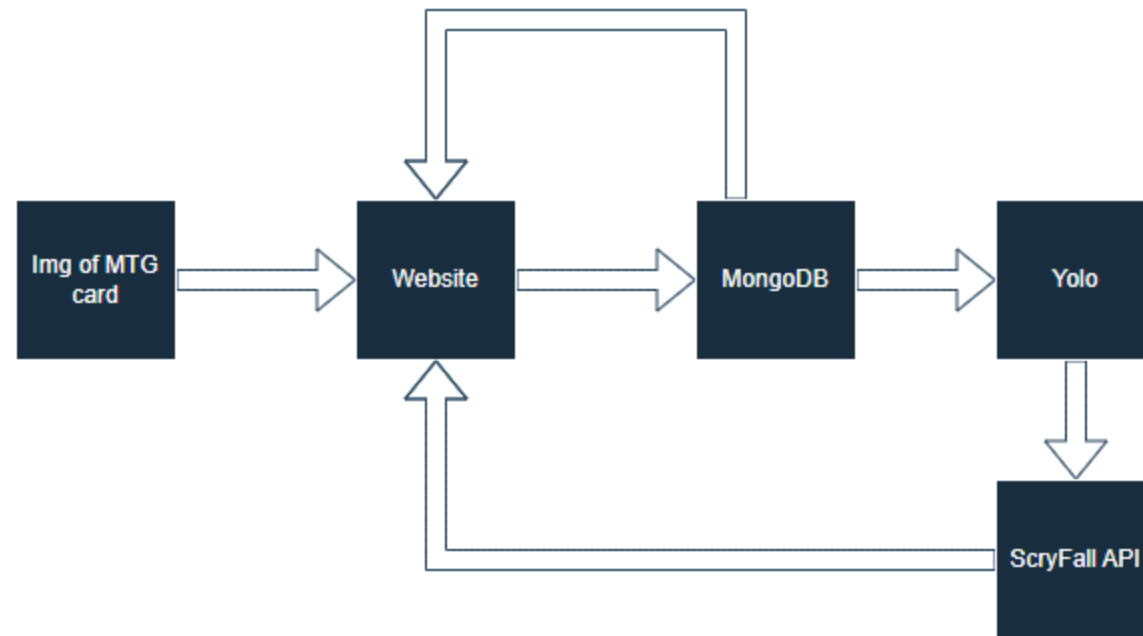
I got the idea to use YOLO after some research into the AZURE API and its OCR, I contacted a developer for an app like the project who suggested I try YOLO.

Azure API

This was the original tool I was going to use for the OCR but it was more work in just getting access to it so I decided to move on from it.

Scryfall API

PROJECT OVERVIEW



LANGUAGES USED

- Python, for the main block of code for the OCR
- React for the Front end of the application (unstarted as of now)
- REST API this is linked with the Scryfall API

TOOLS USED

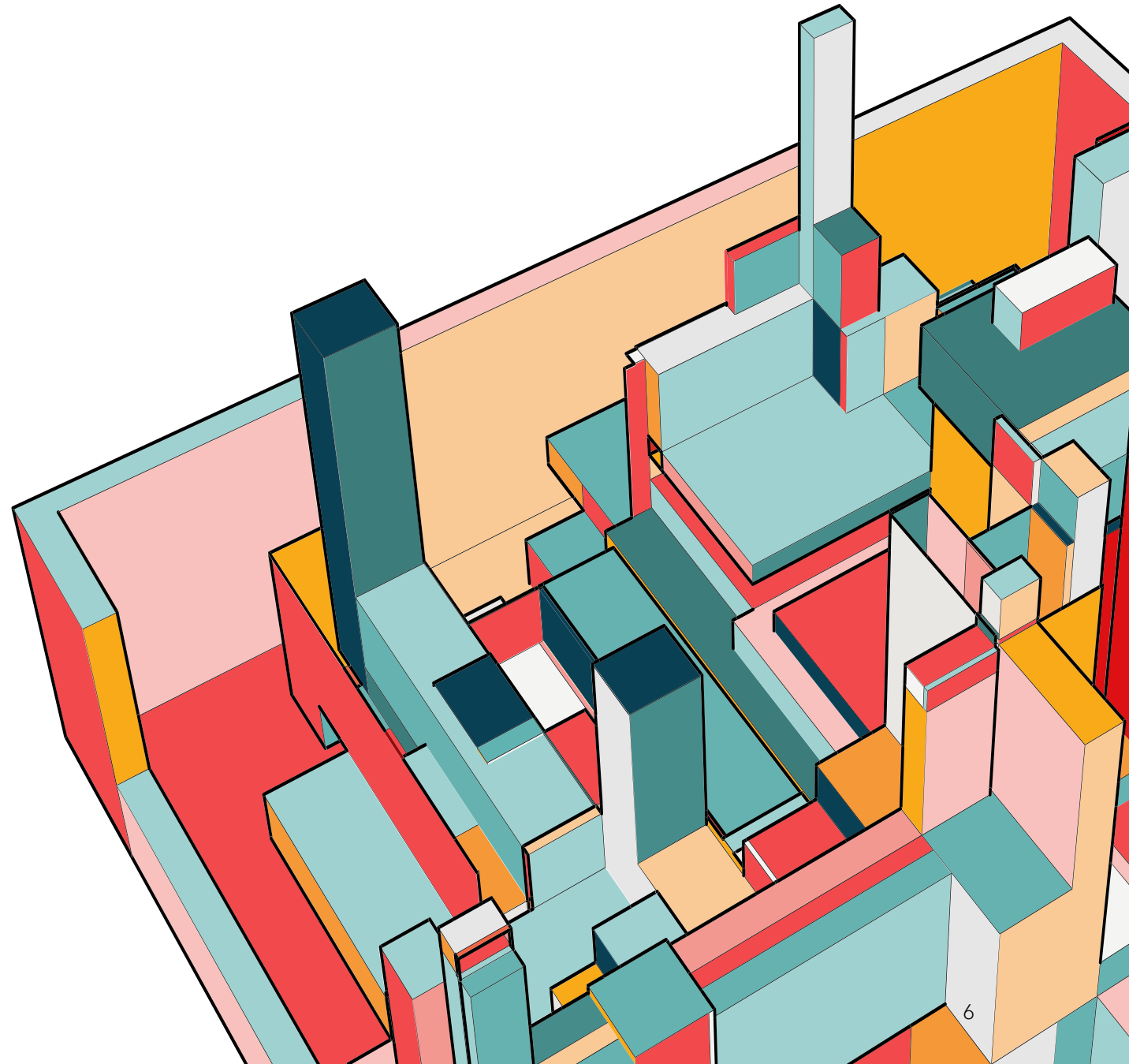
- Vs code to work on the code for the overall project.
- Roboflow to help with the dataset creation and annotating.

HELP I'VE RECEIVED

I got in contact with a developer of a similar app and asked him for some advice back when I was producing the project idea.

He suggested I use YOLOv5 and make my own dataset.

His app is called Delver Lens and it's a big inspiration of how I hope to have mine working





DATABASE

- The database I'm using for the project is a locally hosted MongoDB.
- I decided to use this as it's what we were using for some of our classes over the course of the year and made sense to use what we were actively using in class.
- The database hosts the info on the cards such as the name and type of card, as well as the image of the card itself.

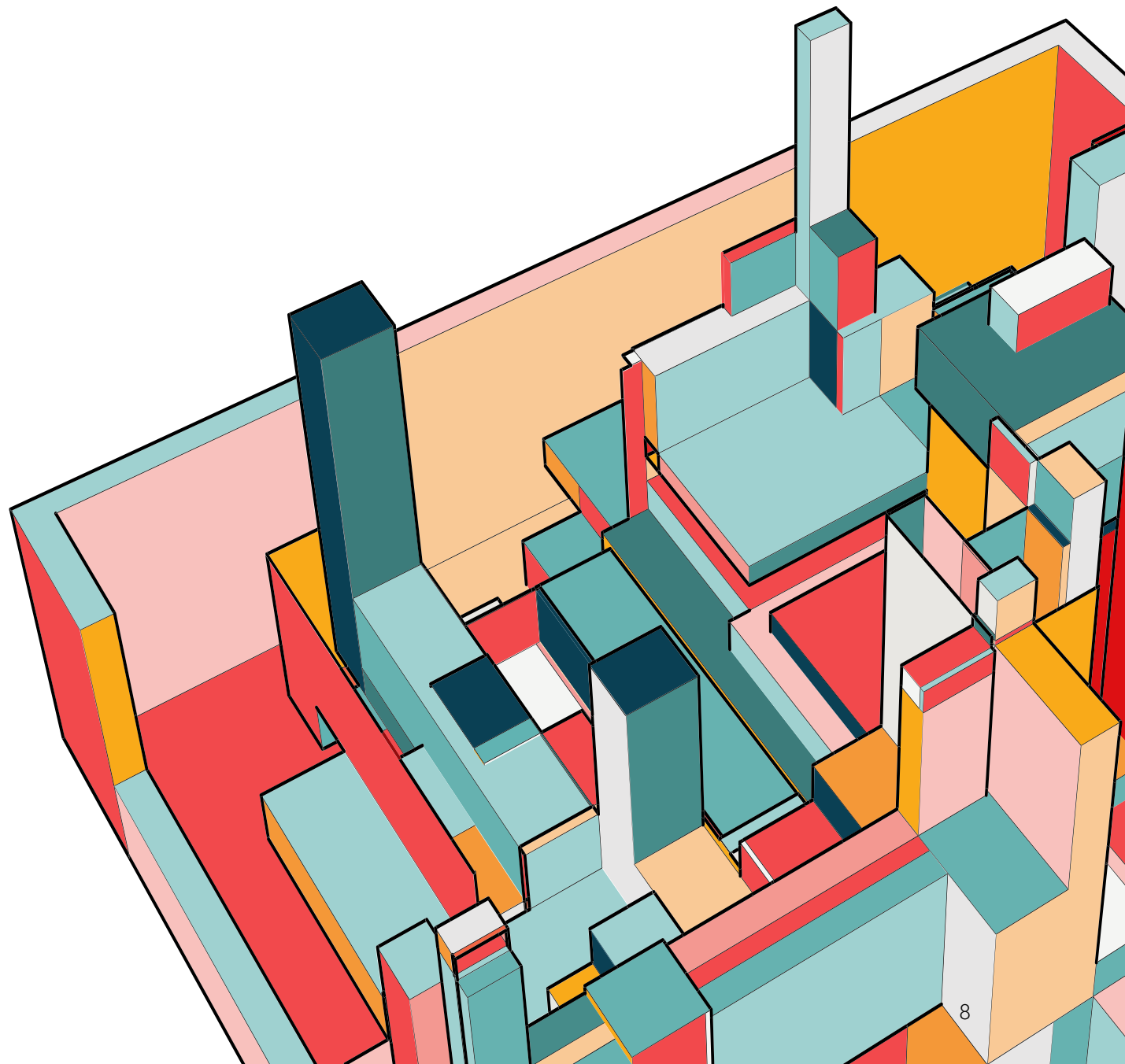
SOURCES

ScryFall API - <https://scryfall.com/docs/api>

YOLOv5 - <https://docs.ultralytics.com/yolov5/>

Delver lens - <https://www.delverlab.com/0>

Robo flow - <https://roboflow.com/>



THANK YOU

