**Architexa user’s manual**

Architexa is a CGAN neural network capable of generating images of buildings based on your prompts.

# Common users:

To use Architexa navigate to this website: <https://architexa-1f4ce.web.app/>

Where you will see this:

A login form with a city in the background

Description automatically generated

You will need to create an account and then sign in to access the site.

ADD IN PHOTO OF WEBSITE

From here you can enter one of our pretrained classes and it will generate an image for that class. At this point, these are: brick building, brick house, suburban brick house, wood house or wooden building.

CHANGE TO REFLECT NEW FUNCTIONALITY

After allowing 75 seconds for generation the UI will then deliver four generated images matching your prompt.

# Case tool users:

Our neural network optimisation tool, and our dataset building tools can be found in the following repository: <https://github.com/Ash237333/208-Project>

## Running the dataset builder

After having downloaded the contents of data\_preprocessing/generated\_images/code open your computer’s command prompt and run the following:

export PATH=$PATH:$(go env GOPATH)/bin

Then change the directory for command prompt to the location where the .yaml files from the download are stored (this can just be /downloads)

Then run the following:

bulkai create-session

This will open a chrome tab at discord, and you will need to login to your discord account (do it via the pop up in that windows or it can cause problems)

Finally, declare a command in discord then type and submit the following:

bulkai generate --config bulkai.yam

(you can stop the generation process by pressing ctrl+c)