

VSI Application Overview (SAAS and Multi-Tenant) Version 1.0

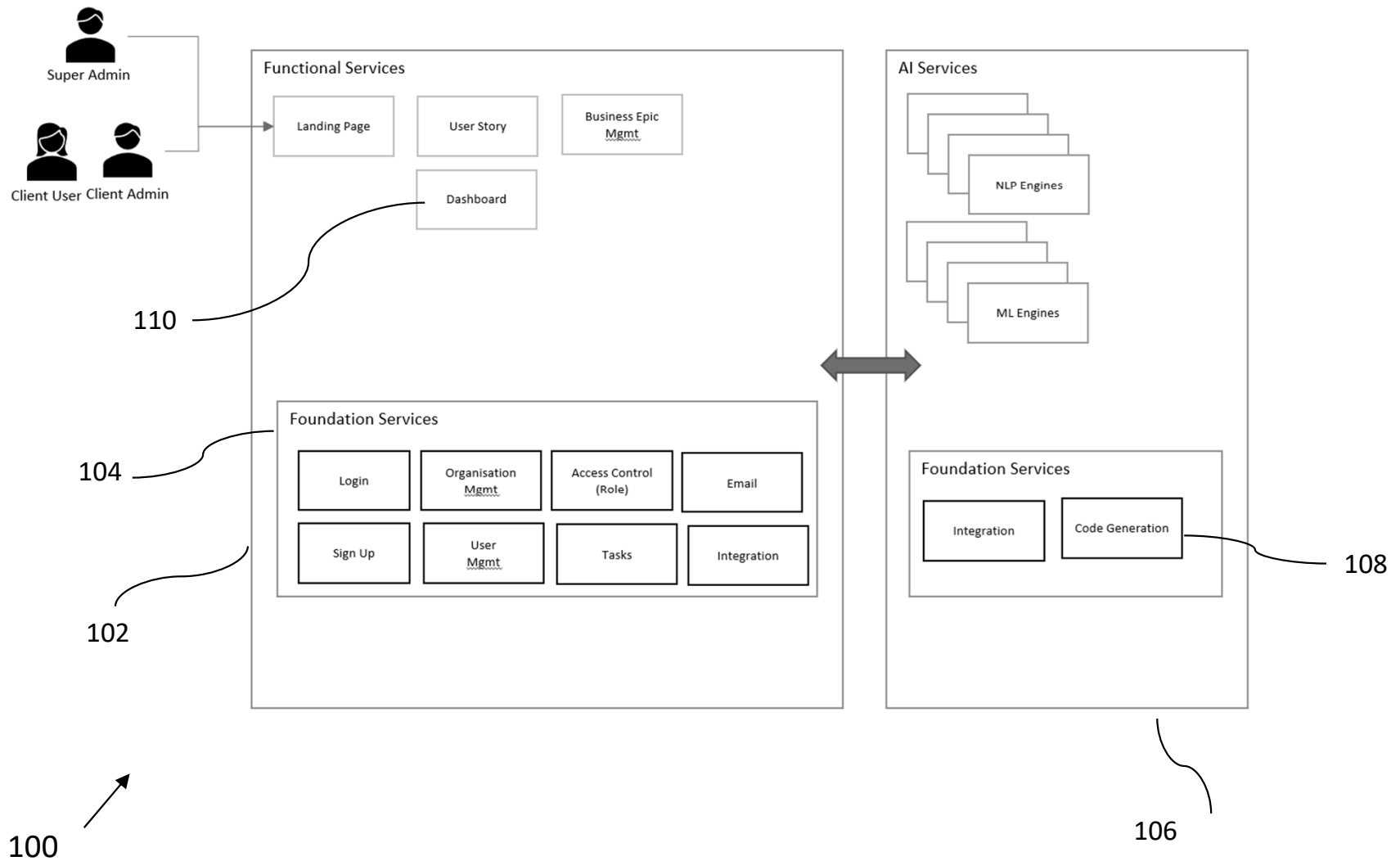


Figure 1

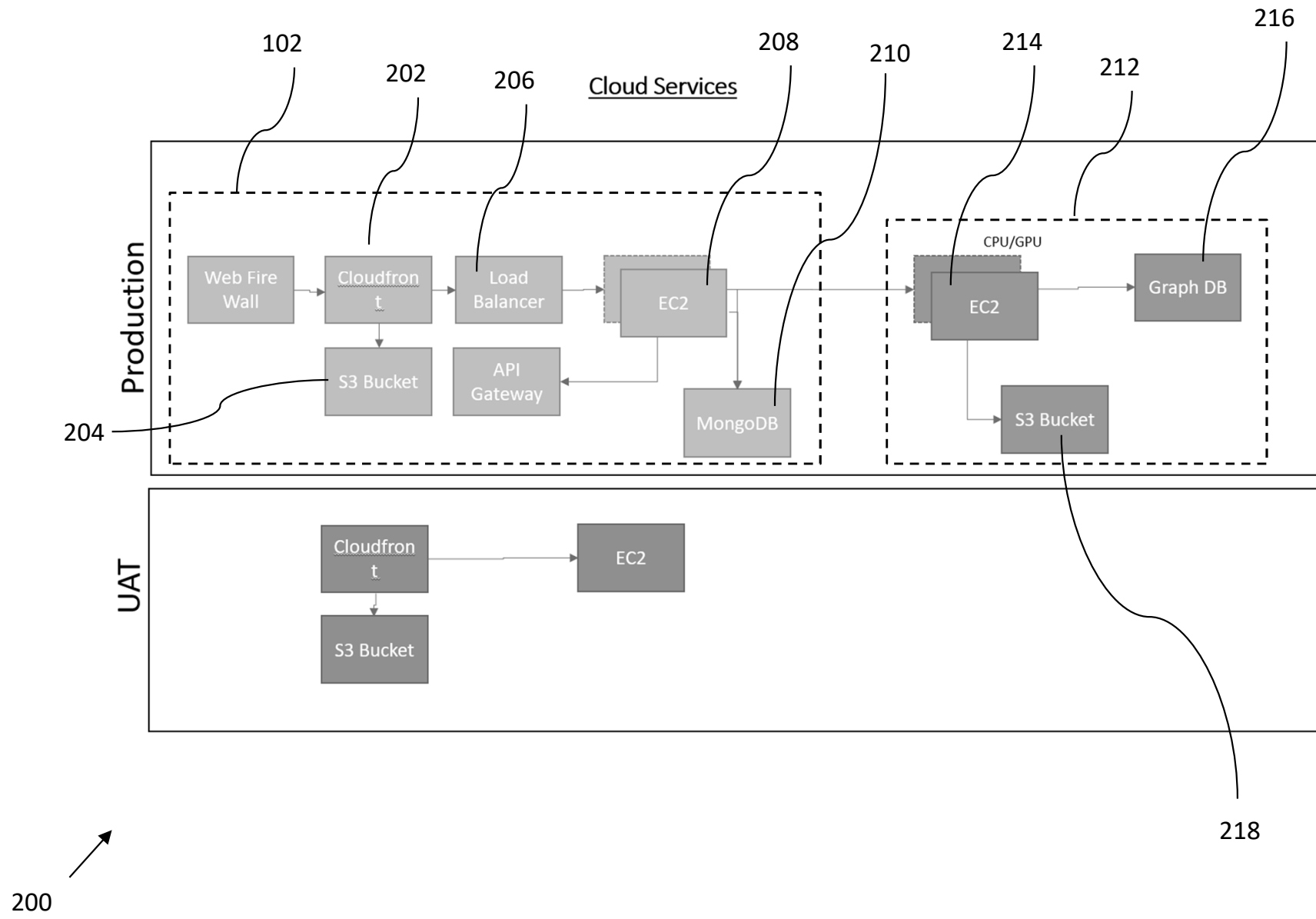


Figure 2

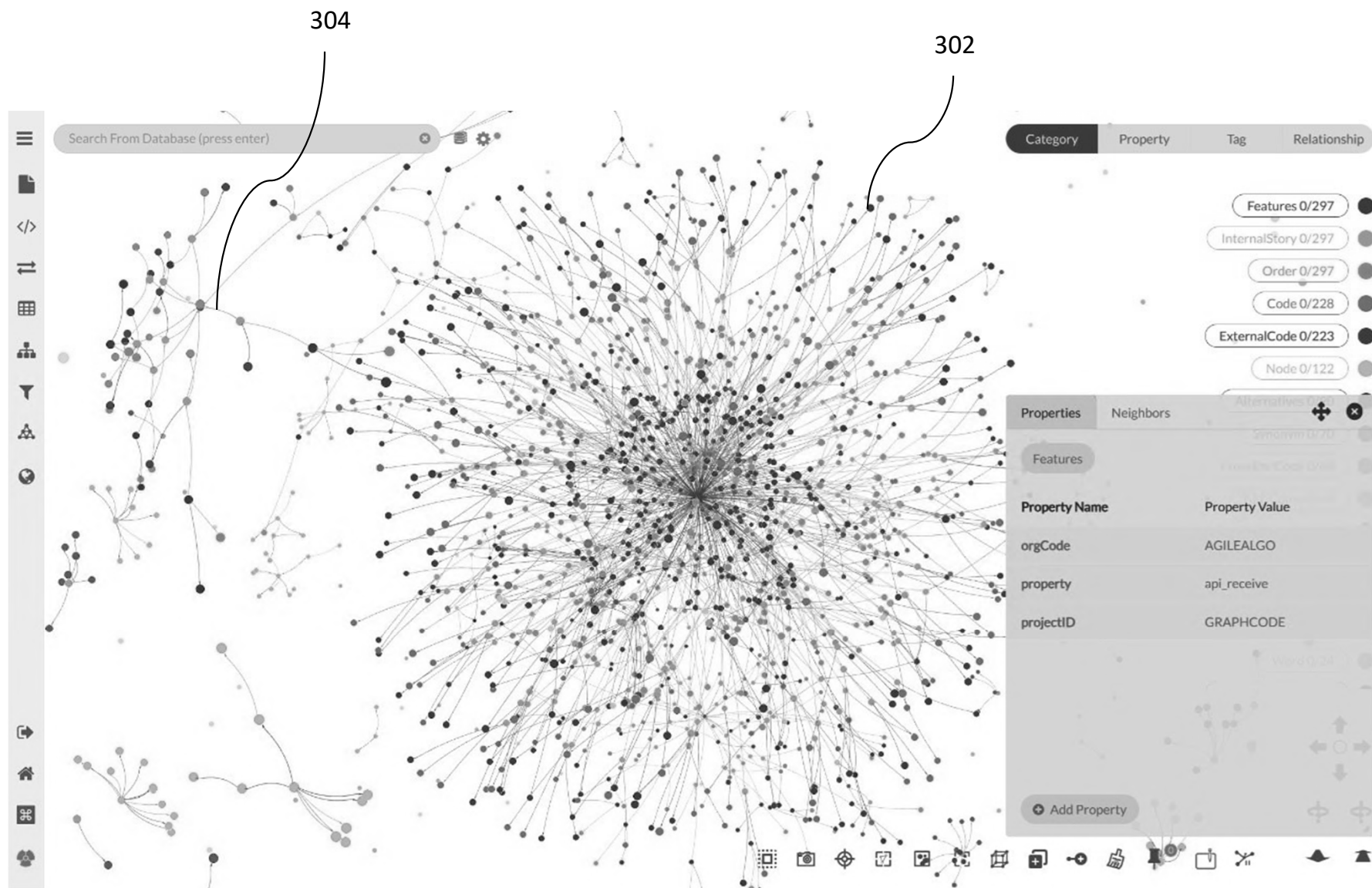


Figure 3

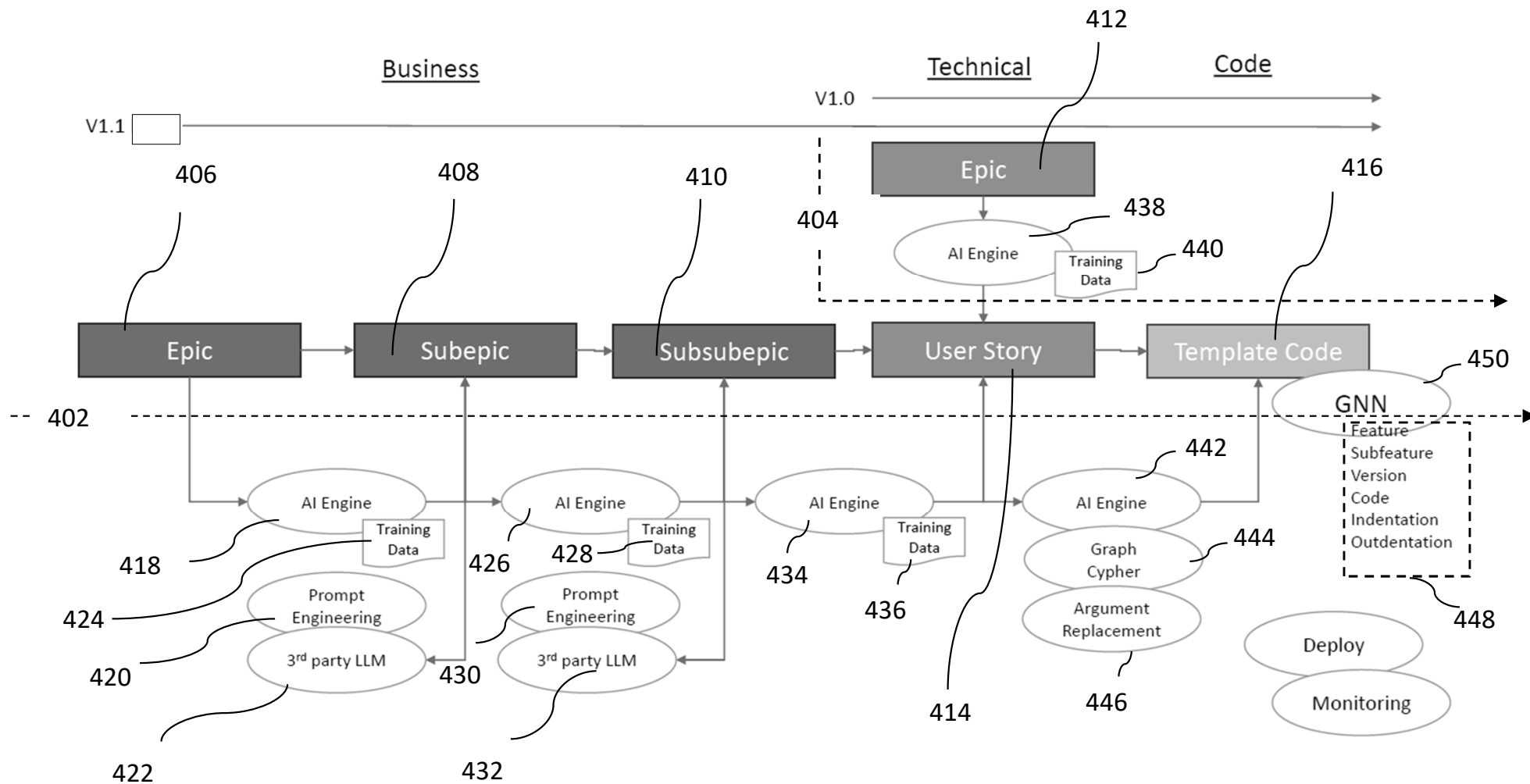
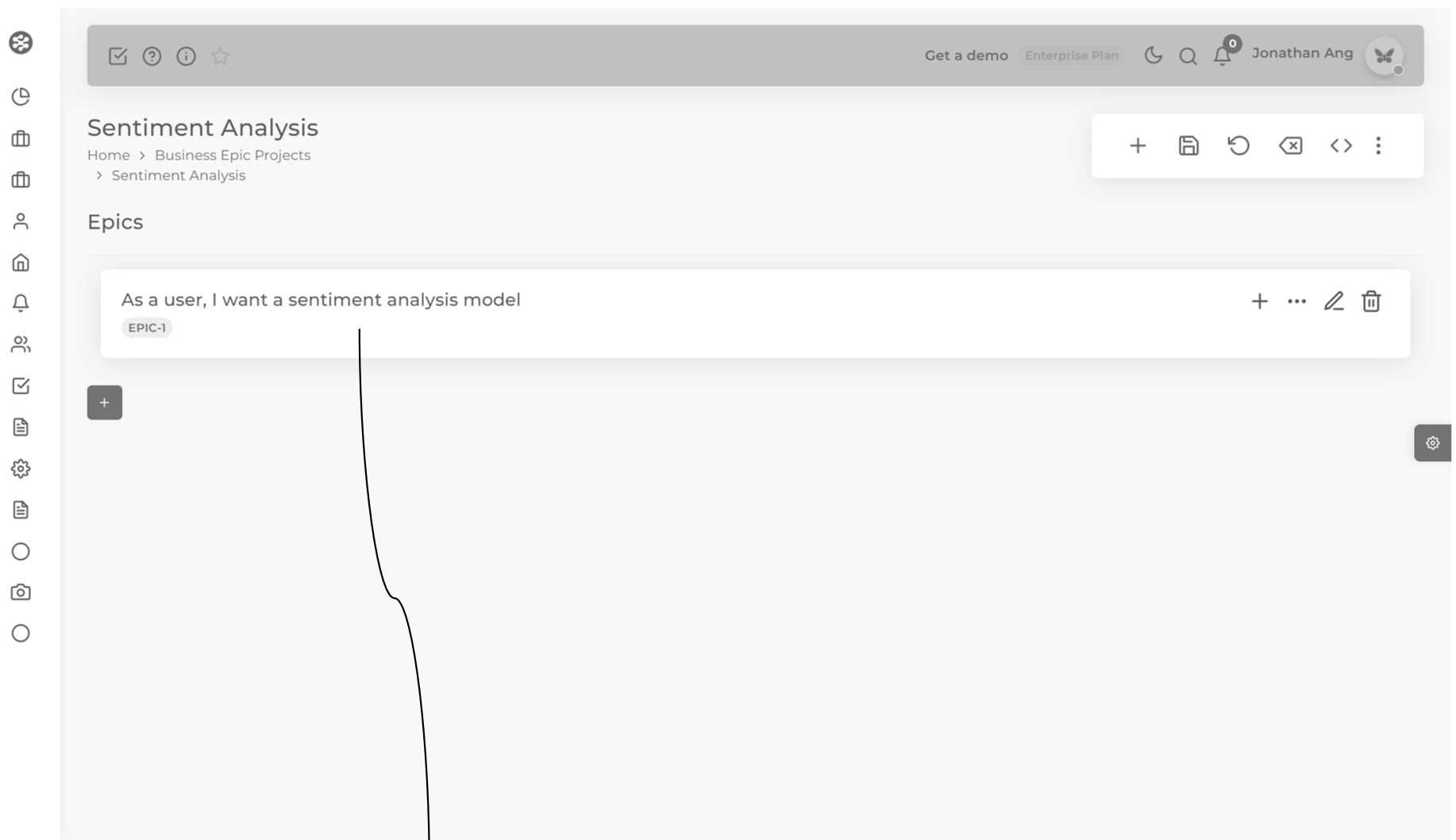


Figure 4



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Figure 5

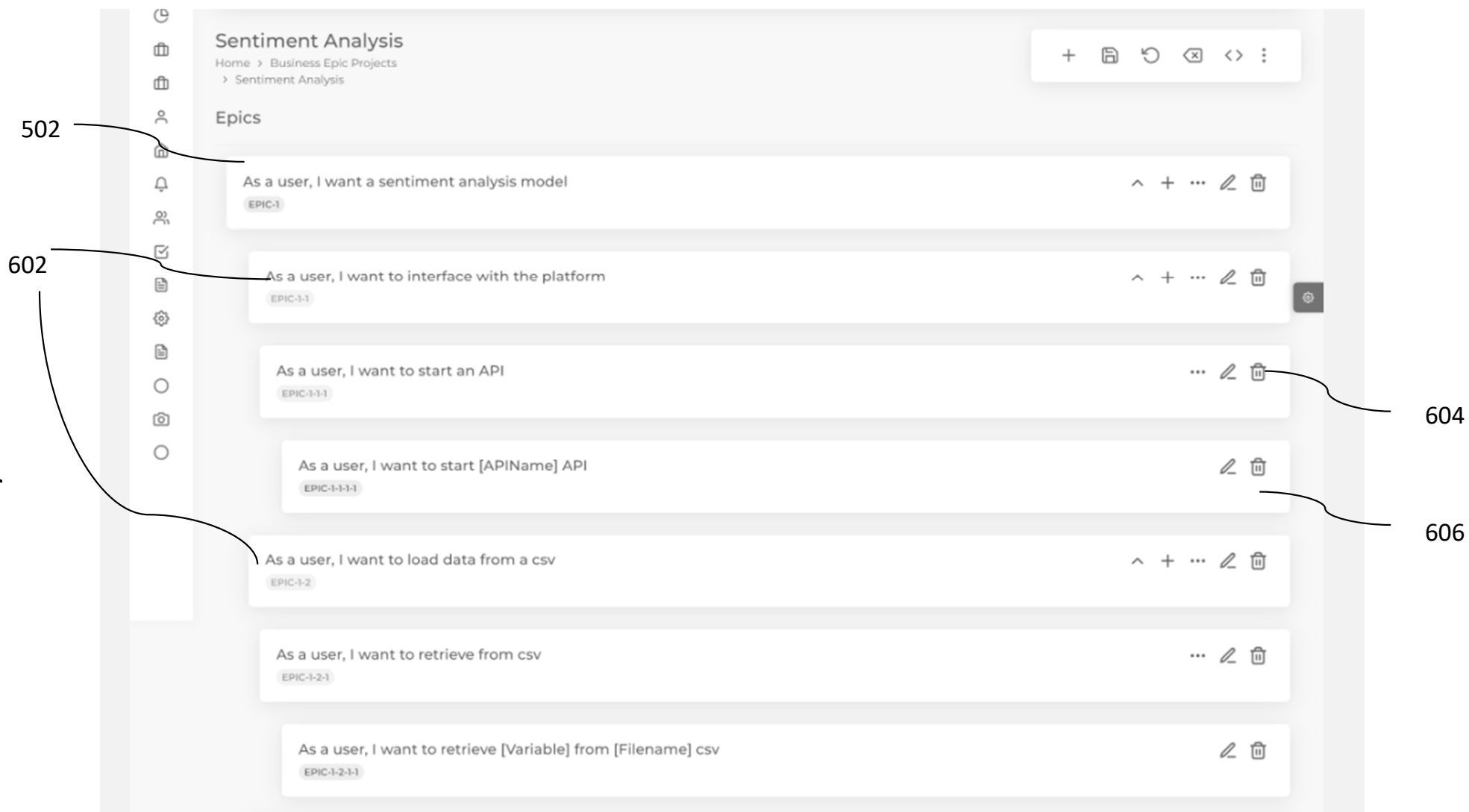
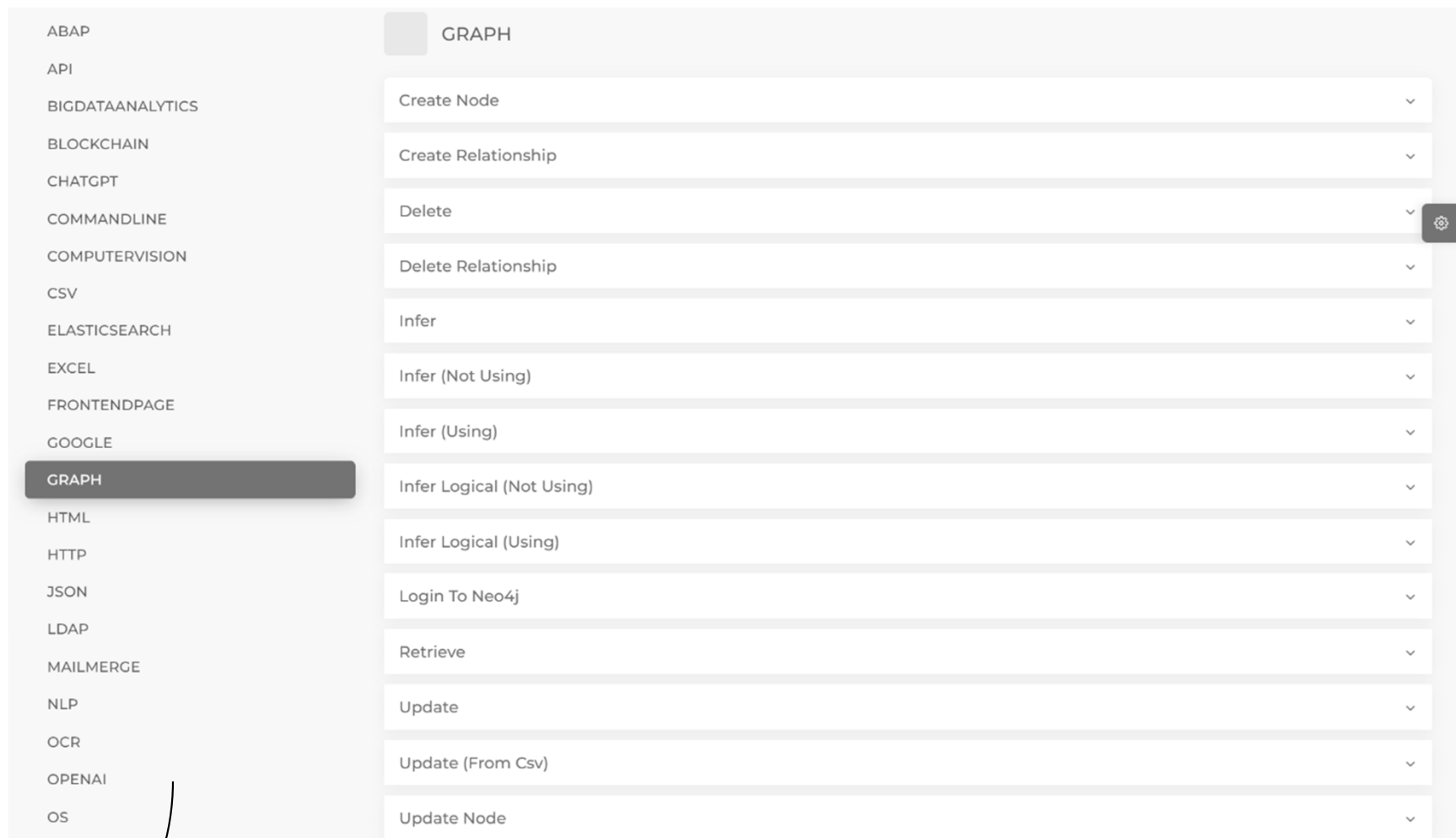


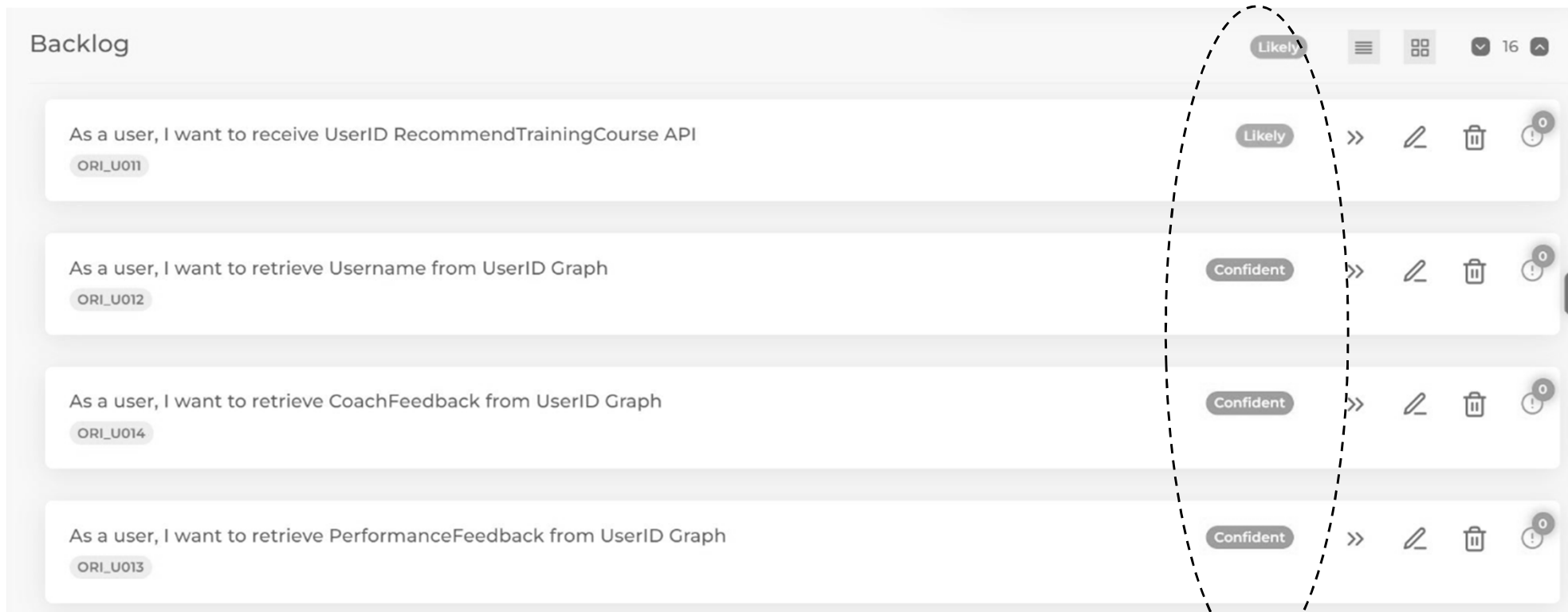
Figure 6

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Figure 7



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Figure 8

The screenshot displays a Windows desktop environment. In the foreground, a code editor window titled 'project_script.py' is open, showing Python code for file operations and AWS S3 integration. The code includes functions for session ID generation, file upload location setting, string validation, item iteration, array flattening, and URL generation. A black line is drawn on the code, pointing from the 'generate_presigned_url' function to the taskbar. To the right, a file explorer window shows the contents of the '/home/ec2-user/VDS/AGILEALGO/TEST123' directory. It lists several files: '_init_.py', 'config_ec2.py', 'config_PROD.py', 'config_project.json', and 'project_script.py'. The 'project_script.py' file is selected, and its details (Filesize: 23,072, Filetype: PY File, Last modified: 27/2/2023 5:50:..., Permissions: -rw-rw-r--, Owner/Group: ec2-user ec...) are displayed in the right pane. The taskbar at the bottom shows the system clock as 12:20 am on 12/9/2023, along with various application icons and a search bar.

```
Local site: C:\Users\tony\
Recovery
System Volume Information

project_script.py
File Edit View
session_id = ''.join(random.choices(string.ascii_lowercase, k=16))

upload_file_location = 'results/SIT/'
data_file_location = 'data/'
ontology_file_location = 'ontology/'

def isfloat(string):
    if len(string) == 0:
        return False
    if string[0] in ('-', '+'):
        string = string[1:]
    return string.replace('.', '').isdigit() and (string.count('.') <= 1)

def isint(string):
    if len(string) == 0:
        return False
    if string[0] in ('-', '+'):
        string = string[1:]
    return string.isdigit()

def isiter(item):
    return hasattr(item, '__iter__') and not isinstance(item, str)

def flattenarray(items):
    def flatten(items):
        """Yield items from any nested iterable; see Reference."""
        for x in items:
            if isiter(x):
                for sub_x in flatten(x):
                    yield sub_x
            else:
                yield x
    return list(flatten(items))

def generate_presigned_url(object_key, bucket=bucket, expiry=3600):
    """This function generated a presigned URL file download from S3"""
    client = boto3.client('s3', region_name='ap-southeast-1',
        aws_access_key_id=AWS_ACCESS_KEY_ID,
```

Remote site: /home/ec2-user/VDS/AGILEALGO/TEST123

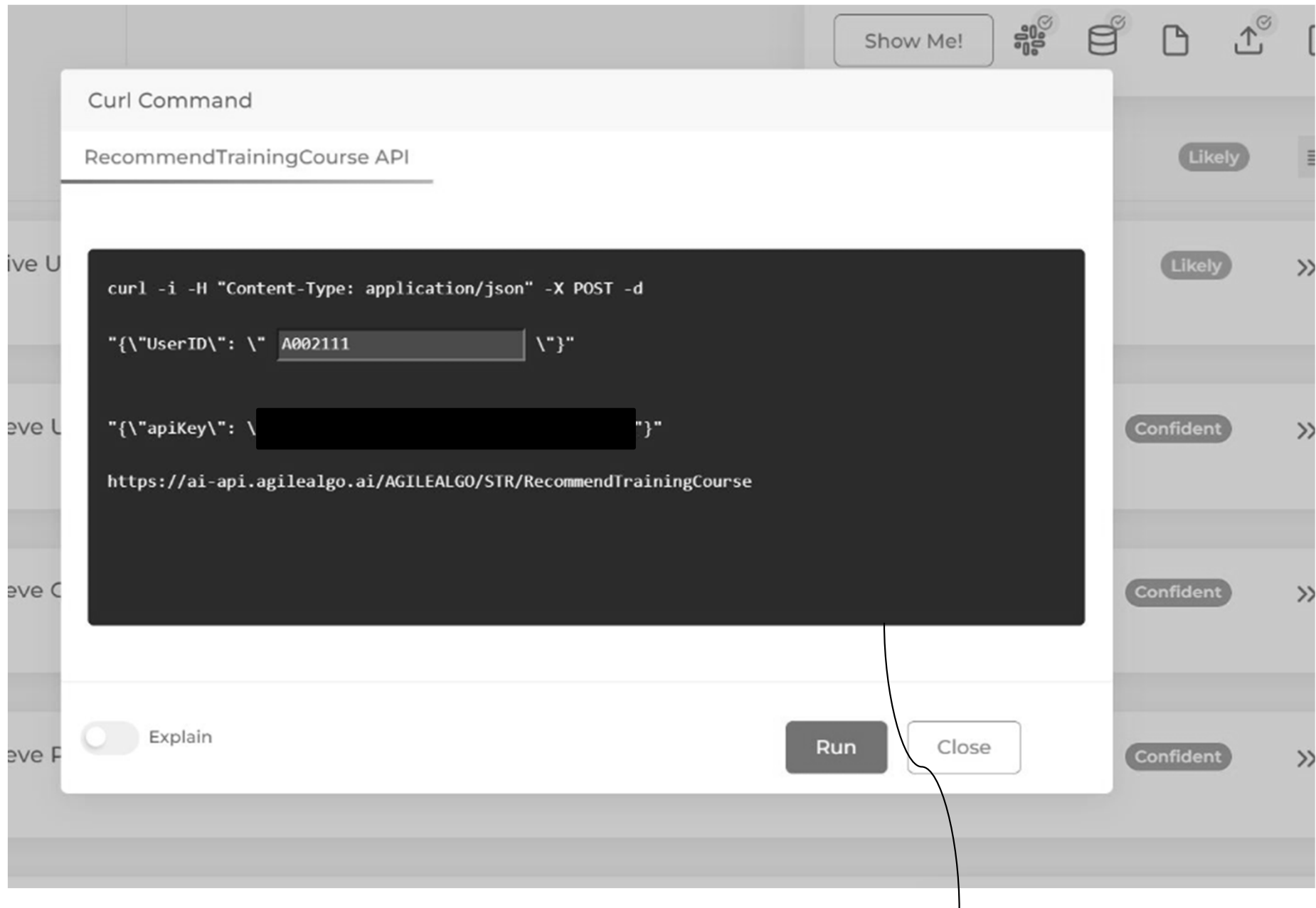
Filename	Filesize	Filetype	Last modified	Permissions	Owner/Group
..					
init.py	0	PY File	27/2/2023 5:50:...	-rw-rw-r--	ec2-user ec...
config_ec2.py	107	PY File	27/2/2023 4:09:...	-rw-rw-r--	ec2-user ec...
config_PROD.py	126	PY File	27/2/2023 4:09:...	-rw-rw-r--	ec2-user ec...
config_project.json	23	JSON File	27/2/2023 4:09:...	-rw-rw-r--	ec2-user ec...
project_script.py	23,072	PY File	27/2/2023 5:50:...	-rw-rw-r--	ec2-user ec...

Selected 1 file. Total size: 23,072 bytes

Ln 1, Col 1 100% Unix (LF) UTF-8

27°C Partly cloudy Search Queue: empty 12:20 am 12/9/2023

Figure 9



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Figure 10

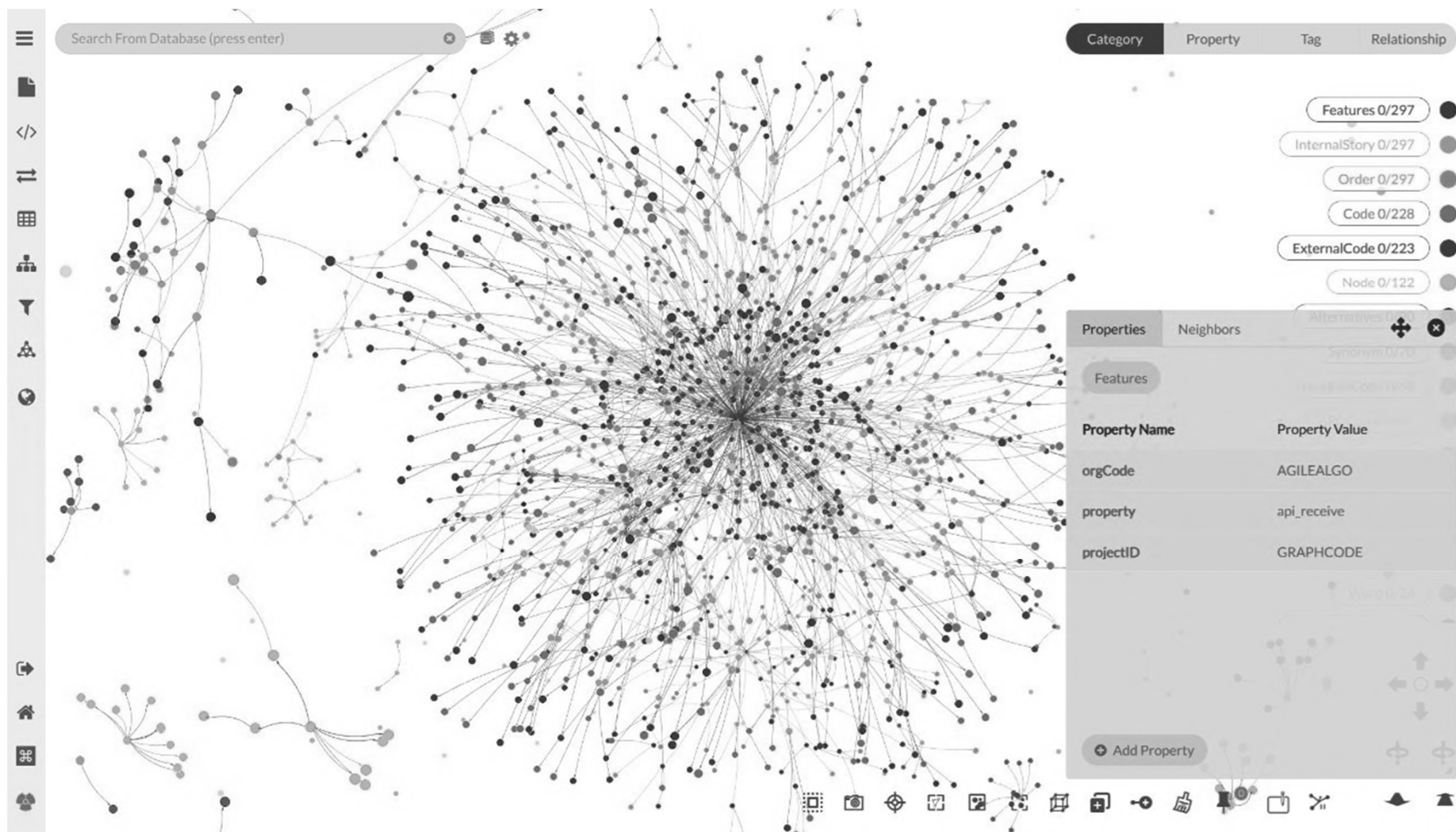


Figure 11