In [1]:
```python
import pandas as pd
import io
import re
```

In [2]:
```python
with open("support_logs_2025-07-01.log",encoding='utf-8') as f:
    content = f.read()
len(content)
```

Out[2]: 32938

In [3]:
```python
entries = [entry.strip() for entry in content.split("---") if
entry.strip()]
entries[0]
```

Out[3]: '2025-07-01 00:21:00 [INF0] careplus.support.GenericService -
TicketID=TCK0701000 SessionID=sess_TCK0701000\nIP=60.130.155.7 |
ResponseTime=1269ms | CPU=27.64% | EventType=generic_event |
Error=false\nUserAgent="PostmanRuntime/7.32.2"\nMessage=" event
for TCK0701000"\nDebug="ℹ️ Logged for monitoring"\nTraceID=None'

In [ ]:

```python
#log = ('2025-07-01 14:10:00 [INFO] careplus.support.GenericService - '
       #'TicketID=TCK0701029 SessionID=sess_TCK0701029\n'
       #'IP=178.77.232.8 | ResponseTime=214ms | CPU=33.47% |
EventType=generic_event | Error=false\n'
       #'UserAgent="curl/7.68.0"\nMessage=" event for TCK0701029"\n'
       #'Debug="ℹ️ Logged for monitoring"\nTraceID=None')


# Regex pattern to capture all key-value pairs and other main fields
import re as re
log_pattern = re.compile(
    r'(?P<datetime>\d{4}-\d{2}-\d{2} \d{2}:\d{2}:\d{2}) '        #
datetime
    r'\[(?P<loglevel>[A-Z0-9]+)\] '                              # log
level
    r'(?P<service>[\w\.]+) - '                                   # service
name
    r'TicketID=(?P<TicketID>\S+) '                               #
TicketID
    r'SessionID=(?P<SessionID>\S+)\\n'                           #
SessionID
    r'IP=(?P<IP>[\d\.]+) \| '                                    # IP
    r'ResponseTime=(?P<ResponseTime>\d+)ms \| '                 #
ResponseTime
    r'CPU=(?P<CPU>[\d\.]+)% \| '                                 # CPU
    r'EventType=(?P<EventType>\w+) \| '                          #
EventType
    r'Error=(?P<Error>\w+)\\n'                                   # Error
    r'UserAgent="(?P<UserAgent>[^"]+)"\\n'                       #
UserAgent
    r'Message="(?P<Message>[^"]+)"\\n'                           # Message
    r'Debug="(?P<Debug>[^"]+)"\\n'                               # Debug
    r'TraceID=(?P<TraceID>\S+)'
)


#extract  structured data
parsed_entries = []
for entry in entries:
    match = log_pattern.search(entry)
    if match:
        parsed_entries.append(match.groupdict())
parsed_entries[0]
```

In [ ]:

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