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import platform
import socket
import psutil
import uuid
from loguru import logger
from typing import Dict
import requests
def capture_system_data() -> Dict[str, str]:
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  Captures extensive system data including platform information, user ID, IP address, CPU count,
  memory information, and other system details.
  Returns:
     Dict[str, str]: A dictionary containing system data.
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  try:
     system_data = {
        "platform": platform.system(),
        "platform_version": platform.version(),
        "platform_release": platform.release(),
        "hostname": socket.gethostname(),
        "ip_address": socket.gethostbyname(socket.gethostname()),
        "cpu_count": psutil.cpu_count(logical=True),
        "memory_total": f"{psutil.virtual_memory().total / (1024 ** 3):.2f} GB",
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"memory_available": f"{psutil.virtual_memory().available / (1024 ** 3):.2f} GB",
     "user_id": str(uuid.uuid4()), # Unique user identifier
     "machine_type": platform.machine(),
     "processor": platform.processor(),
     "architecture": platform.architecture()[0],
  }
  # Get external IP address
  try:
    system_data["external_ip"] = requests.get("https://api.ipify.org").text
  except Exception as e:
     logger.warning("Failed to retrieve external IP: {}", e)
    system_data["external_ip"] = "N/A"
  return system_data
except Exception as e:
  logger.error("Failed to capture system data: {}", e)
  return {}
```