



Critical Fixes for Telegram Bot Video Processing Issues

Based on my detailed analysis of both repositories, I've identified **7 critical differences** and the specific fixes needed for the second repository (Harrytt345/scdvfbg) to work properly.

▮ Key Differences Found:

1. Download Path Issue (Critical)

Problem: The non-working repo forces all downloads to a separate "downloads" directory which causes path issues.

Working Repo (devgaganin):

```
f = await u.download_media(m, file_name=c_name, progress=prog, progress_args=(c, d, p.id,
```

Non-Working Repo (Harrytt345):

```
os.makedirs("downloads", exist_ok=True)
download_path = os.path.join("downloads", c_name)
f = await u.download_media(m, file_name=download_path, progress=prog, progress_args=(c, c
```

2. Missing Premium Configuration

Problem: The `config.py` in the second repo is missing the P0 premium plans configuration section.

3. Video Processing Chain Errors

The JPEG2000 and "moov atom not found" errors indicate the bot is trying to process corrupted or incomplete video files.

▮ STEP-BY-STEP FIXES:

FIX 1: Update `plugins/batch.py`

Replace the download section in the `process_msg` function:

```
# REMOVE these lines:
os.makedirs("downloads", exist_ok=True)
download_path = os.path.join("downloads", c_name)
f = await u.download_media(m, file_name=download_path, progress=prog, progress_args=(c, c

# REPLACE with:
f = await u.download_media(m, file_name=c_name, progress=prog, progress_args=(c, d, p.id,
```

FIX 2: Add Missing Premium Configuration to `config.py`

Add this section at the end of your `config.py`:

```
# =====
# 🏆 PREMIUM PLANS CONFIGURATION
# =====
P0 = {
    "d": {
        "s": int(os.getenv("PLAN_D_S", 1)),
        "du": int(os.getenv("PLAN_D_DU", 1)),
        "u": os.getenv("PLAN_D_U", "days"),
        "l": os.getenv("PLAN_D_L", "Daily"),
    },
    "w": {
        "s": int(os.getenv("PLAN_W_S", 3)),
        "du": int(os.getenv("PLAN_W_DU", 1)),
        "u": os.getenv("PLAN_W_U", "weeks"),
        "l": os.getenv("PLAN_W_L", "Weekly"),
    },
    "m": {
        "s": int(os.getenv("PLAN_M_S", 5)),
        "du": int(os.getenv("PLAN_M_DU", 1)),
        "u": os.getenv("PLAN_M_U", "month"),
        "l": os.getenv("PLAN_M_L", "Monthly"),
    },
}
# =====
# 🏆 DEVGAGAN
# =====
```

FIX 3: Enhance Video Processing in `utils/func.py`

Add better error handling and video validation. Replace the `get_video_metadata` function with this improved version:

```
async def get_video_metadata(file_path):
    default_values = {'width': 1, 'height': 1, 'duration': 1}
    loop = asyncio.get_event_loop()
```

```

executor = concurrent.futures.ThreadPoolExecutor(max_workers=4)

try:
    def _extract_metadata():
        try:
            # Try with different backends for better compatibility
            cap = cv2.VideoCapture(file_path, cv2.CAP_FFMPEG)
            if not cap.isOpened():
                logger.warning(f"Could not open video file: {file_path}")
                cap = cv2.VideoCapture(file_path, cv2.CAP_ANY)

            if not cap.isOpened():
                logger.warning(f"Could not open video file with any backend: {file_path}")
                return default_values

            width = round(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
            height = round(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
            fps = cap.get(cv2.CAP_PROP_FPS)
            frame_count = cap.get(cv2.CAP_PROP_FRAME_COUNT)

            # Validate values
            if fps <= 0 or width <= 0 or height <= 0:
                cap.release()
                return default_values

            duration = round(frame_count / fps)
            if duration <= 0:
                duration = 1

            cap.release()
            return {'width': max(1, width), 'height': max(1, height), 'duration': max(1, duration)}

        except Exception as e:
            logger.error(f"Error in video_metadata: {e}")
            return default_values

    return await loop.run_in_executor(executor, _extract_metadata)

except Exception as e:
    logger.error(f"Error in get_video_metadata: {e}")
    return default_values

```

FIX 4: Add Video File Validation

Add this function to `utils/func.py`:

```

def validate_video_file(file_path):
    """Validate if video file is not corrupted"""
    try:
        if not os.path.exists(file_path):
            return False, "File does not exist"

        # Check file size (must be > 1KB)
        if os.path.getsize(file_path) < 1024:
            return False, "File too small - likely corrupted"

```

```

# Try to open with OpenCV to check if it's a valid video
cap = cv2.VideoCapture(file_path)
if not cap.isOpened():
    return False, "Cannot open video file - possibly corrupted"

# Try to read first frame
ret, frame = cap.read()
cap.release()

if not ret:
    return False, "Cannot read video frames - file corrupted"

return True, "Valid video file"

except Exception as e:
    return False, f"Validation error: {str(e)}"

```

FIX 5: Update Video Processing with Validation

In `plugins/batch.py`, update the video processing section in `process_msg` function:

```

# Add this after the file download and before processing:
if m.video or (m.document and file_ext in video_extensions):
    # Validate video file before processing
    is_valid, msg = validate_video_file(f)
    if not is_valid:
        await c.edit_message_text(d, p.id, f'Video validation failed: {msg}')
        if os.path.exists(f):
            os.remove(f)
        return 'Failed - corrupted video.'

    mtd = await get_video_metadata(f)
    dur, h, w = mtd['duration'], mtd['width'], mtd['height']
    th = await screenshot(f, dur, d)

```

FIX 6: Add FFmpeg Video Repair Function

Add this to `utils/func.py`:

```

async def repair_video_moov(input_path, output_path):
    """Fix videos with moov atom issues"""
    try:
        cmd = [
            'ffmpeg', '-i', input_path,
            '-c', 'copy',
            '-movflags', '+faststart',
            '-avoid_negative_ts', 'make_zero',
            '-y', output_path
        ]

        process = await asyncio.create_subprocess_exec(
            *cmd,

```

```

        stdout=asyncio.subprocess.PIPE,
        stderr=asyncio.subprocess.PIPE
    )

    stdout, stderr = await process.communicate()

    if process.returncode == 0 and os.path.exists(output_path):
        return True, output_path
    else:
        return False, stderr.decode() if stderr else "Unknown error"

except Exception as e:
    return False, str(e)

```

FIX 7: Update Requirements.txt

Ensure you have the correct versions:

```

telethon
python-dotenv
psutil
opencv-python-headless==4.8.1.78
devgagantools
aiofiles
# ggnpyro
https://www.dl.dropboxusercontent.com/sc1/fi/e0fo6fcjn8kmr5r0x6wvg/myownpyro.zip?rlkey=d1
aiohttp
telethon-tgcrypto
motor
pymongo
pytz
Pillow
tgcrypto
flask
werkzeug==2.2.2
mutagen
yt-dlp>=2023.10.13
requests
cryptography
ffmpeg-python==0.2.0

```

DEPLOYMENT FIXES:

For Docker/VPS Deployment:

Add this to your Dockerfile or installation script:

```

# Install FFmpeg with proper codecs
RUN apt-get update && apt-get install -y \
    ffmpeg \
    libavcodec-extra \

```

```
x264 \  
&& apt-get clean
```

Environment Variables to Add:

```
# Add these to handle video processing better  
OPENCV_VIDEOIO_MSMF_ENABLE_HW_TRANSFORMS=0  
OPENCV_VIDEOIO_PRIORITY_MSMF=0
```

▮ Summary:

The main issues were:

1. **Path Problems:** Wrong download directory structure
2. **Missing Configuration:** Premium plans configuration missing
3. **Video Processing:** Lack of validation and error handling for corrupted videos
4. **OpenCV Backend:** Wrong video capture backend selection

After implementing these fixes, your bot should handle video processing much better and avoid the JPEG2000, moov atom, and OpenCV errors you were experiencing.

**

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