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// =====
// FILE: events/channelHandler.js - FULL FIXED VERSION
// =====

const { EmbedBuilder } = require('discord.js');
const fs = require('fs').promises;
const fsSync = require('fs');
const path = require('path');
const { safeRename, getUsernameFromTopic } = require('../functions/ rename');

// =====
// ⚙ CONSTANTS
// =====

const CAT = {
  SLEEP: '1427958263281881088',
  ACTIVE: '1411034825699233943',
  CYBER: '1446077580615880735',
  DREAM: '1445997821336748155',
  GLITCH: '1445997659948060712',
  EMPTY: '1463173837389828097'
};

const ROLE_ID = '1411991634194989096';
const REPORT_CHANNEL = '1438039815919632394';
const DATA_FILE = path.join(__dirname, '../data/streaks.json');

const STREAK_CATS = [CAT.ACTIVE, CAT.CYBER, CAT.DREAM, CAT.GLITCH];
const ALL_CATS = Object.values(CAT);

const BIOME_MAP = {
  DREAMSPACE: { badge: '🌸', category: CAT.DREAM },
  CYBERSPACE: { badge: '🌐', category: CAT.CYBER },
  GLITCH: { badge: '👾', category: CAT.GLITCH }
};

module.exports = (client) => {
  const data = new Map();
  let saveTimer = null;
  let saving = false;
  const processing = new Set();

  // =====
  // 💾 DATA PERSISTENCE
  // =====

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function load() {
  try {
    if (fsSync.existsSync(DATA_FILE)) {
      const json = JSON.parse(fsSync.readFileSync(DATA_FILE, 'utf8'));
      Object.entries(json).forEach(([id, info]) => data.set(id, info));
      console.log('✅ Loaded', data.size, 'channels');
    }
  } catch (e) {
    console.error('❌ Load error:', e.message);
  }
}

async function save() {
  if (saving) return;
  try {
    saving = true;
    const dir = path.dirname(DATA_FILE);
    if (!fsSync.existsSync(dir)) await fs.mkdir(dir, { recursive: true });
    await fs.writeFile(DATA_FILE, JSON.stringify(Object.fromEntries(data)), null);
    console.log('💾 Saved');
  } catch (e) {
    console.error('❌ Save error:', e.message);
  } finally {
    saving = false;
  }
}

function scheduleSave() {
  if (saveTimer) clearTimeout(saveTimer);
  saveTimer = setTimeout(save, 2000);
}

load();

// =====
// ✎ HELPERS
// =====

function getData(id) {
  if (!data.has(id)) {
    data.set(id, {
      streak: 0,
      badges: [],
      times: [],
      days: 0,
      date: null,
      firstBiome: null,
      moving: false
    })
  }
}

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        });
    }
    return data.get(id);
}

function getDate() {
    return new Date().toISOString().split('T')[0];
}

function getNext13H() {
    const now = new Date();
    const next = new Date(Date.UTC(now.getUTCFullYear(), now.getUTCMonth(), now.getDate()));
    if (now >= next) next.setUTCDate(next.getUTCDate() + 1);
    return next;
}

function formatTime(ms) {
    const h = Math.floor(ms / 3600000);
    const m = Math.floor((ms % 3600000) / 60000);
    return h + 'h ' + m + 'm';
}

function getUserId(topic) {
    if (!topic) return null;
    const parts = topic.trim().split(/\s+/);
    return parts.length >= 2 && /^d{17,20}$.test(parts[1]) ? parts[1] : null;
}

function parseStreak(name) {
    const m = name.match(/ [(\d+) 🔥] /);
    return m ? parseInt(m[1], 10) : 0;
}

function parseBadges(name) {
    const badges = [];
    const m = name.match(/^(.+?)★】/);
    if (!m) return badges;
    const prefix = m[1];
    const withCounter = prefix.match(/\x\d+(\img|🌐|🧩)/g);
    if (withCounter) withCounter.forEach(b => badges.push(b));
    ['img', '🌐', '🧩'].forEach(e => {
        if (prefix.includes(e) && !badges.some(b => b.includes(e))) badges.push(e);
    });
    return badges;
}

// =====

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// ⏳ TÍNH THỜI GIAN MACRO THỰC TẾ
// =====

/** 
 * Tính tổng thời gian macro từ timestamps
 * Loại bỏ khoảng nghỉ (break) - chỉ tính thời gian macro liên tục
 *
 * @param {Array} times - Mảng timestamps
 * @param {Number} maxGap - Khoảng cách tối đa giữa 2 message (ms)
 * @returns {Number} Tổng thời gian macro (ms)
 */
function calcActive(times, maxGap = 10 * 60 * 1000) {
    console.log('🔍 calcActive called with:', times?.length, 'timestamps');

    if (!times || times.length === 0) {
        console.log('❌ No times provided');
        return 0;
    }

    if (times.length === 1) {
        console.log('⚠️ Only 1 timestamp, returning 0');
        return 0;
    }

    // Validate timestamps are numbers
    const validTimes = times.filter(t => typeof t === 'number' && !isNaN(t));
    if (validTimes.length !== times.length) {
        console.log('⚠️ Some invalid timestamps filtered:', times.length - validT
    }

    if (validTimes.length < 2) {
        console.log('❌ Not enough valid timestamps');
        return 0;
    }

    const sorted = [...validTimes].sort((a, b) => a - b);
    let totalActive = 0;
    let gaps = 0;

    console.log('📊 First timestamp:', new Date(sorted[0]).toISOString());
    console.log('📊 Last timestamp:', new Date(sorted[sorted.length - 1]).toISC

    for (let i = 1; i < sorted.length; i++) {
        const gap = sorted[i] - sorted[i - 1];
        if (gap <= maxGap) {
            totalActive += gap;
        } else {

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        gaps++;
        console.log(`  ⏸ Gap ${gaps}: ${formatTime(gap)} (ignored)`);
    }

    console.log('  ✅ Total active:', formatTime(totalActive));
    return totalActive;
}

function getCatName(id) {
    return [
        [CAT.SLEEP]: 'Dormant',
        [CAT.ACTIVE]: 'Active',
        [CAT.CYBER]: 'Cyberspace',
        [CAT.DREAM]: 'Dreamspace',
        [CAT.GLITCH]: 'Glitch',
        [CAT.EMPTY]: 'Empty'
    ][id] || 'Unknown';
}

// =====
// 🔎 DETECT BIOMES - 2 PHƯƠNG THỨC
// =====

function detectBiomeFromMessage(msg) {
    const check = (text) => {
        if (!text) return null;
        const t = text.toUpperCase();
        if (t.includes('DREAMSPACE')) return 'DREAMSPACE';
        if (t.includes('CYBERSPACE')) return 'CYBERSPACE';
        if (t.includes('GLITCH')) return 'GLITCH';
        return null;
    };

    if (msg.embeds && msg.embeds.length > 0) {
        for (const e of msg.embeds) {
            const result = check(e.title) || check(e.description);
            if (result) return result;
        }
    }
}

return check(msg.content);
}

async function detectBiomesFromEveryone(ch) {
try {
    console.log('🔍 Searching for @everyone message in', ch.name);
}

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const messages = await ch.messages.fetch({ limit: 50 });
const everyoneMsg = messages.find(m => m.content.includes('@everyone'));

if (!everyoneMsg) {
    console.log('⚠️ No @everyone message found');
    return [];
}

console.log('✅ Found @everyone at', new Date(everyoneMsg.createdAt));

const around = messages.filter(m =>
    Math.abs(m.createdAt - everyoneMsg.createdAt) < 30 * 60 * 1
);

console.log('📍 Found', around.size, 'messages within 30 minutes');

const found = new Set();

for (const msg of around.values()) {
    for (const embed of msg.embeds || []) {
        const text = `${embed.title || ''} ${embed.description || ''}`.toUpperCase();
        for (const key of Object.keys(BIOME_MAP)) {
            if (text.includes(key)) {
                found.add(key);
                console.log('🌈 Found biome in embed:', key);
            }
        }
    }
}

console.log('✅ Total biomes detected:', [...found]);
return [...found];
}

} catch (e) {
    console.error('⚠️ Detect biomes error:', e.message);
    return [];
}
}

// =====
// 🙏 ROLE MANAGEMENT
// =====

async function updateRole(ch, add) {
    try {
        const userId = getUserId(ch.topic);
        if (!userId) return;
        const member = await ch.guild.members.fetch(userId).catch(() => null);

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if (!member) return;
const has = member.roles.cache.has(ROLE_ID);
if (add && !has) {
    await member.roles.add(ROLE_ID);
    console.log('✅ Role added:', member.user.tag);
} else if (!add && has) {
    await member.roles.remove(ROLE_ID);
    console.log('❌ Role removed:', member.user.tag);
}
} catch (e) {
    console.error('⚠️ Role error:', e.message);
}

// =====
// 🌈 BIOME HANDLING
// =====
async function handleBiome(ch, biomeKey) {
try {
    const d = getData(ch.id);
    const biome = BIOME_MAP[biomeKey];
    if (!biome) return;

    const idx = d.badges.findIndex(b => b.includes(biome.badge));

    if (idx !== -1) {
        const m = d.badges[idx].match(/\x(\d+)/);
        const count = m ? parseInt(m[1], 10) : 1;
        d.badges[idx] = 'x' + (count + 1) + biome.badge;
        console.log('🔄 Badge++:', d.badges[idx]);
    } else {
        if (!d.firstBiome) {
            d.firstBiome = biomeKey;
            d.badges = [biome.badge];
            d.moving = true;
            await ch.setParent(biome.category, { lockPermissions: false });
            await new Promise(r => setTimeout(r, 500));
            console.log('⭐ First biome:', biomeKey);
        } else {
            d.badges.push(biome.badge);
            console.log('➕ Badge added:', biome.badge);
        }
    }
}

await safeRename(ch, d.streak, d.badges);
await updateRole(ch, true);
scheduleSave();

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    } catch (e) {
        console.error('✖ Biome error:', e.message);
    }
}

// =====
// 📲 WEBHOOK DETECTION - REAL-TIME!
// =====

client.on('messageCreate', async (msg) => {
    try {
        if (msg.webhookId) {
            console.log('=====');
            console.log('⭐ WEBHOOK DETECTED!');
            console.log(' Channel:', msg.channel.name);
            console.log(' Category:', msg.channel.parentId);
            console.log(' Webhook ID:', msg.webhookId);
            console.log(' Author:', msg.author.tag);
            console.log(' Author ID:', msg.author.id);
            console.log(' Has Embeds:', (msg.embeds?.length || 0));
            console.log(' Content:', msg.content.substring(0, 100));
            console.log('=====');
        }
    }

    if (!msg.webhookId) return;

    const ch = msg.channel;

    if (!ch || !ALL_CATS.includes(ch.parentId)) {
        console.log('✖ Not in tracked category');
        return;
    }

    const userId = getUserId(ch.topic);
    if (!userId) {
        console.log('✖ No user ID in topic:', ch.topic);
        return;
    }

    console.log('✅ Webhook belongs to channel with valid topic');
    console.log('✅ PROCESSING WEBHOOK');

    const now = Date.now();
    const d = getData(ch.id);
    const today = getDate();

    if (d.date !== today) {

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d.times = [];
d.date = today;
console.log('📅 17 New day detected, reset times');
}

const biomeKey = detectBiomeFromMessage(msg);
if (biomeKey) {
    console.log('🌈 Biome detected from message:', biomeKey);
}

if (ch.parentId === CAT.SLEEP || ch.parentId === CAT.EMPTY) {
    console.log('⏰ WAKING UP from', getCatName(ch.parentId));

    d.streak = parseStreak(ch.name) || 0;
    d.times = [now];
    d.days = 0;

    if (biomeKey) {
        console.log('→ To BIOME (from message):', biomeKey);
        await handleBiome(ch, biomeKey);
    } else {
        console.log('→ Checking for @everyone messages...');

        const biomeKeys = await detectBiomesFromEveryone(ch);

        if (biomeKeys.length > 0) {
            console.log('→ To BIOME (from @everyone):', biomeKeys[0]);

            await handleBiome(ch, biomeKeys[0]);

            for (let i = 1; i < biomeKeys.length; i++) {
                const biome = BIOME_MAP[biomeKeys[i]];
                if (!biome) continue;

                const idx = d.badges.findIndex(b => b.includes(biome.badge));
                if (idx !== -1) {
                    const m = d.badges[idx].match(/\x(\d+)/);
                    const count = m ? parseInt(m[1], 10) : 1;
                    d.badges[idx] = 'x' + (count + 1) + biome.badge;
                    console.log('⌚ Badge++ (additional):', d.badges[idx]);
                } else {
                    d.badges.push(biome.badge);
                    console.log('➕ Badge added (additional):', biome.badge);
                }
            }
        }
    }
}

await safeRename(ch, d.streak, d.badges);

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    } else {
        console.log('→ To ACTIVE (no biome found)');
        d.moving = true;
        await ch.setParent(CAT.ACTIVE, { lockPermissions: false });
        await new Promise(r => setTimeout(r, 500));
        await safeRename(ch, d.streak, d.badges);
    }
}

await updateRole(ch, true);
scheduleSave();
return;
}

if (biomeKey) {
    await handleBiome(ch, biomeKey);
}

d.times.push(now);
console.log('⌚ Timestamp saved. Total times:', d.times.length);
scheduleSave();

console.log('✅ Webhook processed');

} catch (e) {
    console.error('❌ messageCreate error:', e.message);
    console.error(e.stack);
}
});

// =====
// ⌚ DAILY CHECK 13:00 VN - FIXED!
// =====

async function dailyCheck() {
try {
    console.log('=====');
    console.log('🔔 DAILY CHECK - 13:00 VN');
    console.log('⌚ Calculating active time from saved timestamps...');

    const guild = client.guilds.cache.first();
    if (!guild) return;

    const report = await guild.channels.fetch(REPORT_CHANNEL).catch(() => null)

    const channels = guild.channels.cache.filter(c =>
        c.type === 0 && STREAK_CATS.includes(c.parentId)

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);

console.log(`📊 Scanning ${channels.size} channels...`);

const results = { above18h: [], above12h: [], above6h: [] };

for (const [, ch] of channels) {
  try {
    const d = getData(ch.id);

    console.log(`🔍 Processing: ${ch.name}`);
    console.log(`📊 Saved timestamps: ${d.times?.length || 0}`);

    if (!d.times || !Array.isArray(d.times) || d.times.length === 0) {
      console.log(`⚠️ No timestamps saved today → 0 hours`);

      d.days++;
      console.log(`⚠️ WARNING: Day ${d.days}/3 (0h < 6h)`);

      if (d.days >= 3) {
        const old = d.streak;
        d.streak = 0;
        d.badges = [];
        d.firstBiome = null;
        d.moving = true;
        console.log(`😴 MOVING TO DORMANT (lost ${old}🔥)`);
        await ch.setParent(CAT.SLEEP, { lockPermissions: false });
        await new Promise(r => setTimeout(r, 500));
        await updateRole(ch, false);
        await safeRename(ch, 0, []);
        d.days = 0;
      }
    }

    d.times = [];
    d.date = getDate();
    continue;
  }

  const active = calcActive(d.times, 10 * 60 * 1000);
  const hours = active / 3600000;

  console.log(`⌚ Active time: ${formatTime(active)} (${hours.toFixed(2)})`);
  console.log(`📊 Current streak: ${d.streak}🔥`);
  console.log(`⚠️ Warning days: ${d.days}/3`);
  console.log(`📅 Timestamps breakdown:`);

  if (d.times.length > 0) {

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const sorted = [...d.times].sort((a, b) => a - b);
const first = new Date(sorted[0]).toLocaleTimeString('vi-VN');
const last = new Date(sorted[sorted.length - 1]).toLocaleTimeString('
console.log(`First: ${first}`);
console.log(`Last: ${last}`);
console.log(`Count: ${d.times.length} webhooks`);

let totalGaps = 0;
for (let i = 1; i < sorted.length; i++) {
    const gap = sorted[i] - sorted[i - 1];
    if (gap > 10 * 60 * 1000) {
        totalGaps++;
        console.log(`      Gap ${totalGaps}: ${formatTime(gap)} (break det
    }
}
}

if (hours >= 18) results.above18h.push({ ch, active });
if (hours >= 12) results.above12h.push({ ch, active });
if (hours >= 6) results.above6h.push({ ch, active });

if (hours >= 6) {
    d.streak++;
    d.days = 0;
    console.log(` ✓ STREAK SAVED: ${d.streak - 1}🔥 → ${d.streak}🔥`);
    await safeRename(ch, d.streak, d.badges);
} else {
    d.days++;
    console.log(` ! WARNING: Day ${d.days}/3 (${hours.toFixed(2)})h < 6h
}

if (d.days >= 3) {
    const old = d.streak;
    d.streak = 0;
    d.badges = [];
    d.firstBiome = null;
    d.moving = true;
    console.log(` 😴 MOVING TO DORMANT (lost ${old}🔥)`);
    await ch.setParent(CAT.SLEEP, { lockPermissions: false });
    await new Promise(r => setTimeout(r, 500));
    await updateRole(ch, false);
    await safeRename(ch, 0, []);
    d.days = 0;
}
}

d.times = [];
d.date = getDate();

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    } catch (err) {
        console.error(`  Error processing ${ch.name}:`, err.message);
        console.error(err.stack);
    }
}

scheduleSave();

console.log('\n=====');
console.log('  DAILY CHECK SUMMARY:');
console.log(`  18+ hours: ${results.above18h.length} channels`);
console.log(`  12+ hours: ${results.above12h.length} channels`);
console.log(`  6+ hours: ${results.above6h.length} channels`);
console.log('=====');

if (report) {
    const date = new Date().toLocaleDateString('vi-VN', { timeZone: 'Asia/Ho_
    const embeds = [];

    [
        { key: 'above18h', title: '  18+ Hours', color: 0xFFD700 },
        { key: 'above12h', title: '  12+ Hours', color: 0xC0C0C0 },
        { key: 'above6h', title: '  6+ Hours', color: 0xCD7F32 }
    ].forEach(cfg => {
        if (results[cfg.key].length > 0) {
            const desc = results[cfg.key]
                .map(r => `**${r.ch.name}** - ${getCatName(r.ch.parentId)} - ${form
                .join('\n')};
            embeds.push(
                new EmbedBuilder()
                    .setTitle(cfg.title)
                    .setColor(cfg.color)
                    .setDescription(desc)
                    .setTimestamp()
            );
        }
    });
}

if (embeds.length > 0) {
    await report.send({ content: `  **Daily Report** - ${date} `, embeds })
    console.log('  Report sent to channel');
} else {
    await report.send(`  **Daily Report** - ${date}\n⚠️ No channels reached
    console.log('⚠️ No channels reached 6+ hours');
}
}

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        console.log('✅ Daily check completed\n');

    } catch (e) {
        console.error('❗ Daily check error:', e.message);
        console.error(e.stack);
    } finally {
        scheduleDailyCheck();
    }
}

function scheduleDailyCheck() {
    const next = getNext13H();
    console.log('⌚ Next check:', next.toISOString());
    setTimeout(dailyCheck, next - new Date());
}

// =====
// 🎬 OTHER EVENTS
// =====

client.on('channelCreate', async (ch) => {
    try {
        if (ch.type !== 0 || !ALL_CATS.includes(ch.parentId)) return;
        console.log('🆕 Channel created:', ch.name);

        for (let i = 0; i < 5; i++) {
            await new Promise(r => setTimeout(r, 500));
            await ch.fetch();
            if (ch.topic) break;
        }

        if (!ch.topic) return;

        const d = getData(ch.id);
        d.streak = 0;
        d.badges = [];

        if (ch.parentId === CAT.SLEEP || ch.parentId === CAT.EMPTY) {
            await updateRole(ch, false);
        } else if (STREAK_CATS.includes(ch.parentId)) {
            await updateRole(ch, true);
        }

        await safeRename(ch, 0, []);
        scheduleSave();
    } catch (e) {

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        console.error('✖ channelCreate error:', e.message);
    }
});

client.on('channelUpdate', async (old, ch) => {
    try {
        if (!ch || ch.type !== 0) return;
        if (!ALL_CATS.includes(ch.parentId) && !ALL_CATS.includes(old.parentId)) re
        if (processing.has(ch.id)) return;

        processing.add(ch.id);

        try {
            const d = getData(ch.id);

            if (old.parentId !== ch.parentId) {
                console.log('📦 Category change:', ch.name);

                if (d.moving) {
                    d.moving = false;
                    scheduleSave();
                    return;
                }

                await new Promise(r => setTimeout(r, 500));
                await ch.fetch();

                if (STREAK_CATS.includes(ch.parentId)) {
                    await updateRole(ch, true);
                    d.days = 0;
                    await safeRename(ch, d.streak, d.badges);
                } else if (ch.parentId === CAT.SLEEP || ch.parentId === CAT.EMPTY) {
                    await updateRole(ch, false);
                    d.streak = 0;
                    d.days = 0;
                    d.times = [];
                    d.badges = [];
                    d.firstBiome = null;
                    await safeRename(ch, 0, []);
                }
            }

            scheduleSave();
        }
    }

    if (old.name !== ch.name) {
        const streak = parseStreak(ch.name);
        const badges = parseBadges(ch.name);
    }
}

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        if (streak >= 0 && streak !== d.streak) d.streak = streak;
        if (badges.length > 0) d.badges = badges;
        scheduleSave();
    }

} finally {
    processing.delete(ch.id);
}

} catch (e) {
    console.error('✖ channelUpdate error:', e.message);
    processing.delete(ch.id);
}
});

client.on('channelDelete', (ch) => {
    if (data.has(ch.id)) {
        data.delete(ch.id);
        scheduleSave();
        console.log('🗑 Deleted:', ch.name);
    }
});
}

// =====
// 🚀 INITIALIZATION
// =====
async function scanAll(guild) {
    try {
        console.log('🔍 Scanning...');

        const channels = guild.channels.cache.filter(c =>
            c.type === 0 && ALL_CATS.includes(c.parentId)
        );

        const today = getDate();

        for (const [, ch] of channels) {
            try {
                const d = getData(ch.id);
                const streak = parseStreak(ch.name);
                const badges = parseBadges(ch.name);

                if (streak >= 0 && streak !== d.streak) d.streak = streak;
                if (badges.length > 0) d.badges = badges;
                if (d.date !== today) d.times = [];

                if (STREAK_CATS.includes(ch.parentId)) await updateRole(ch, true);
            }
            catch (e) {
                console.error(`Error updating ${ch.name}: ${e.message}`);
            }
        }
    }
}

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        else if (ch.parentId === CAT.SLEEP) await updateRole(ch, false);

        await safeRename(ch, d.streak, d.badges);

    } catch (e) {
        console.error('⚠ Sync error:', ch.name, e.message);
    }
}

scheduleSave();
console.log('✅ Synced', channels.size, 'channels');

} catch (e) {
    console.error('❌ Scan error:', e.message);
}
}

client.once('ready', async () => {
try {
    console.log('🤖 Bot ready!');
    const guild = client.guilds.cache.first();
    if (guild) {
        await scanAll(guild);
        scheduleDailyCheck();
    }
    console.log('🚀 All systems go!');
} catch (e) {
    console.error('❌ Ready error:', e.message);
}
});

// =====
// 🖊 COMMANDS
// =====

client.on('messageCreate', async (msg) => {
    // Test daily check
    if (msg.content === '!testdaily') {
        await msg.reply('⌚ Running daily check manually...');

        await dailyCheck();
        return;
    }

    // Xem thông tin channel hiện tại
    if (msg.content === '!info') {
        try {
            const ch = msg.channel;
            if (!ALL_CATS.includes(ch.parentId)) {

```

```

        await msg.reply('⚠️ Channel này không được track!');
        return;
    }

    const d = getData(ch.id);
    const today = getDate();

    console.log(`🔍 !info command called`);
    console.log(` Channel:`, ch.name);
    console.log(` Channel ID:`, ch.id);
    console.log(` Data:`, JSON.stringify(d, null, 2));

    // Tính thời gian từ timestamps đã lưu
    const active = calcActive(d.times || [], 10 * 60 * 1000);
    const hours = active / 3600000;

    console.log(` Calculated hours:`, hours);

    // Tạo embed info
    const embed = new EmbedBuilder()
        .setTitle(`📊 Channel Info: ${ch.name}`)
        .setColor(0x00AE86)
        .addFields(
            { name: '🔥 Current Streak', value: `${d.streak}`, inline: true },
            { name: '📅 Date', value: d.date || 'N/A', inline: true },
            { name: '⚠️ Warning Days', value: `${d.days}/3`, inline: true },
            { name: '📍 Category', value: getCatName(ch.parentId), inline: true }
            { name: '🎨 Badges', value: d.badges.length > 0 ? d.badges.join(' ') : 'None' },
            { name: '⭐️ First Biome', value: d.firstBiome || 'None', inline: true },
            { name: '📊 Today's Data', value: '—————', inline: false },
            { name: '⌚ Webhooks Received', value: `${(d.times || []).length} mes` },
            { name: '⏰ Active Time (Today)', value: `>${formatTime(active)} ${hc}` },
            { name: '✅ Streak Status', value: hours >= 6 ? '✅ Will save' : '⚠️' }
        )
        .setTimestamp();

    // Hiển thị timestamps chi tiết nếu có
    if (d.times && d.times.length > 0) {
        const sorted = [...d.times].sort((a, b) => a - b);
        const first = new Date(sorted[0]).toLocaleTimeString('vi-VN', { timeZone: 'UTC' });
        const last = new Date(sorted[sorted.length - 1]).toLocaleTimeString('vi-VN', { timeZone: 'UTC' });

        embed.addFields({
            name: '📅 Timeline',
            value: `First webhook: ${first}\nLast webhook: ${last}\nTotal span: ${last - first} ms`,
            inline: false
        });
    }
}

```

```

    }

    await msg.reply({ embeds: [embed] });

} catch (e) {
    console.error('❗️ !info error:', e);
    await msg.reply('❗️ Error: ' + e.message);
}

return;
}

// Xem tất cả channels đang track
if (msg.content === '!stats') {
    try {
        const guild = msg.guild;
        const channels = guild.channels.cache.filter(c =>
            c.type === 0 && STREAK_CATS.includes(c.parentId)
        );

        let text = '```\n📊 ACTIVE CHANNELS STATS\n\n';

        for (const [, ch] of channels) {
            const d = getData(ch.id);
            const active = calcActive(d.times || [], 10 * 60 * 1000);
            const hours = active / 3600000;

            text += `${ch.name}\n`;
            text += ` | Streak: ${d.streak}🔥 | Today: ${hours.toFixed(1)}h`;
            text += ` | Webhooks: ${d.times || []}.length`;
            text += ` | Warns: ${d.days}/3\n\n`;
        }

        text += '``';
    }

    await msg.reply(text);
}

} catch (e) {
    await msg.reply('❗️ Error: ' + e.message);
}

return;
}

// Reset channel data (admin only)
if (msg.content.startsWith('!reset')) {
    if (!msg.member.permissions.has('Administrator')) {
        await msg.reply('❗️ Admin only!');
        return;
    }
}

```

```
}

const ch = msg.channel;
if (!ALL_CATS.includes(ch.parentId)) {
    await msg.reply('⚠️ Channel này không được track!');
    return;
}

const d = getData(ch.id);
d.times = [];
d.days = 0;
scheduleSave();

await msg.reply('✅ Reset timestamps và warning days!');
return;
}
}) ;
} ;
```