Developer Brief: AI Outreach System Across Social Media

Project Overview

I am building a high-volume, AI-enhanced influencer outreach system to help me initiate and manage conversations across all major social platforms — at scale, safely, and with brand consistency.

The goal is to contact hundreds/thousands of influencers per day across multiple accounts, and respond to their replies faster using AI-powered suggestions embedded directly inside each platform's native messaging UI.

The structure outlined below reflects my **proposed implementation** based on current capabilities, but I'm also open to **alternative technical suggestions** if there are safer, faster, or more scalable ways to achieve the same goal.

The system is split into three core modules:

- 1. Cold Outreach Automation
- 2. AI-Powered Reply Assistant (in native inbox)
- 3. Inbox Monitoring + Telegram Bot Notifications

This setup runs across multiple browser profiles (via AdsPower) for platforms like Twitter/X, Instagram, TikTok, Telegram, Facebook, and Email.

1□ Cold Outreach Automation

© Goal

Automate personalized cold DMs at scale, using GPT-4 and browser automation, with no human approval required.

Workflow

- Input: CSV or Airtable list with @handle, platform, niche, and notes
- GPT-4 generates a unique message per influencer
- Browser automation (Selenium or Playwright) logs into AdsPower profile
- Navigates to user's DM interface
- Sends message with human-like delay (20–60s)
- Logs message to CSV or DB

Platforms

Platform	Method	Notes
Twitter/X	AdsPower + Selenium/Playwright	Verified accounts preferred (up to 500 DMs/day)
Instagram	AdsPower + Playwright/Selenium	Target: 30-50/day/account
TikTok	AdsPower + Playwright/Selenium	Carefully mimic DM behavior
Telegram	Python + Telethon	Uses real Telegram user accounts
Facebook Messenger	AdsPower + browser automation	Via messenger.com
Email	Python + SMTP	GPT-generated subject + body, 50–100/day/account

Output Logging

Each message should log:

- Handle
- Platform
- Message (text)
- Timestamp
- Account used
- Success/failure

2□ AI Reply Assistant (Browser Extension)

© Goal

Help humans respond faster by showing GPT-4-powered reply suggestions **inside the platform's native inbox** (e.g., twitter.com/messages).

Features

- Runs as Chrome Extension or Tampermonkey Script
- On DM view:
 - o Detects active thread
 - o Parses last messages
 - Sends context to GPT-4
 - o Displays reply suggestion under input field
 - o Buttons: ✓ Use | ∠ Edit | Regenerate
- Manual sending only (for safety)

Nupported URLs

Platform	URL Example
Twitter/X	https://twitter.com/messages

Instagram https://www.instagram.com/direct/*
TikTok https://www.tiktok.com/messages*

Telegram Web https://web.telegram.org/*

Facebook/Messenger https://www.messenger.com/*
Gmail (optional) https://mail.google.com/*

Configuration

- Each profile (in AdsPower) can use its own GPT prompt + tone
- Configurable locally or via JSON config file

3□ Inbox Monitoring + Telegram Notifications

© Goal

Every 30 minutes, check inboxes across all AdsPower profiles. If there are new messages, send Telegram alerts.

Pow It Works

- Script runs every 30 min (JS or Python)
- For each platform/account:
 - o Opens DM inbox (e.g., twitter.com/messages)
 - Parses unread threads or highlights
 - Captures sender + preview
- Sends alert via Telegram Bot:

```
less
KopierenBearbeiten

New DM on Twitter (@football_now)
From @jesskicks: "Sounds cool - tell me more?"
```

Setup Instructions

- Use @BotFather to create a Telegram bot
- Use @userinfobot to get Telegram user ID
- Use this Python library: python-telegram-bot
- Send message using:

python
KopierenBearbeiten
from telegram import Bot

```
bot = Bot(token='YOUR BOT TOKEN')
bot.send message(chat id= YOUR USER ID', text='New DM detected...')
```

Optional: Batch Summary Format

Every 30 min, send 1 message with all new unread DMs across accounts.



Tech Stack Summary

Tool/Framework **Component**

Automation Python + Selenium or Playwright

Inbox overlay Chrome Extension (Manifest v3) or Tampermonkey

GPT Integration OpenAI GPT-4 API Telegram Alerts python-telegram-bot Account Profiles AdsPower (with proxies)

SQLite or CSV Logging

Optional UI Streamlit dashboard (future phase)

Each social media account runs inside a dedicated AdsPower browser profile, assigned to a unique residential or mobile proxy.

The outreach and inbox scripts must run within those isolated environments to avoid detection. Proxy rotation and fingerprinting (via AdsPower) ensure safe scaling across 10-50 accounts.



Final Deliverables

1. Cold Outreach Scripts

- o Per-platform DM sender with GPT-generated messages
- o Account rotation, safe delays, success logs

2. Browser Extension / Script

- o Injects AI reply suggestions into native inbox UIs
- o Fully working for Twitter, Instagram, Telegram (more later)

3. Inbox Alert System

- o Telegram bot sending new DM summaries every 30 minutes
- Works across all AdsPower browser profiles