# MCS Bounty System: Build Bots for Medical Assistance and Earn Bounties!

The Medical Coding Swarm (MCS) is revolutionizing the way we approach medical diagnostics and documentation. Leveraging a swarm of specialized AI agents, MCS provides secure and scalable solutions for medical diagnosis, ICD-10 coding, and clinical documentation.

Now, we're calling on developers to help us enhance MCS by contributing to our bounty program. You can earn **\$MCS tokens** by implementing key features across Telegram, Twitter, and Discord bots that empower users with medical assistance capabilities.

## 💰 Bounty Overview

Here's your opportunity to get rewarded while shaping the future of medical AI:

#### 1. Encryption and Security

- **Bounty:** 200,000 \$MCS
- Task: Implement robust encryption and security features in the API.
- Details: Ensure secure handling of user data with state-of-the-art encryption techniques and compliance with privacy standards such as HIPAA.

#### 2. Multi-Language Support

- **Bounty:** 300,000 \$MCS
- Task: Add multi-language support to the main Python file.
- Details: Enable seamless communication in multiple languages to ensure accessibility for users worldwide.

#### 3. OpenTelemetry Integration

• **Bounty:** 300,000 \$MCS

- Task: Integrate OpenTelemetry for advanced monitoring and diagnostics.
- Details: Implement end-to-end observability to track and troubleshoot API performance in real time.

#### 4. Twitter Bot Integration

- Bounty: 500,000 \$MCS
- Task: Create a user-friendly Twitter API integration.
- Details: Build a bot where users can interact with MCS on Twitter for free, tagging or DMing the bot for medical assistance.

## X What You'll Be Building

Develop bots for Telegram, Twitter, and Discord that allow users to:

- Ask medical questions and receive diagnostic insights.
- Submit symptoms or lab results for analysis.
- Receive ICD-10 coded reports for clinical documentation.
- Ensure all operations are secure, private, and scalable.

## **Ø** Useful Links

Get started by checking out these resources:

- GitHub Repository: Medical Coder Swarm GitHub Repo
- Discord: Join the Medical Coding Swarm Community
- YouTube Tutorials: Subscribe for Video Guides

## 🔧 Installation and Onboarding

Clone the repo and set up your environment:

Unset pip install mcs

Set environment variables in your .env file:

Unset WORKSPACE\_DIR="agent\_workspace" OPENAI\_API\_KEY="your\_key" MASTER\_KEY="your\_master\_key"

## 星 Example Bot Usage

Here's how you can create a Telegram bot:

### Telegram Bot

1. Install Required Libraries:

Unset

pip install python-telegram-bot

2.

#### Sample Code:

Unset

from telegram import Update from telegram.ext import Updater, CommandHandler, CallbackContext from mcs.main import MedicalCoderSwarm

def start(update: Update, context: CallbackContext) -> None: update.message.reply\_text('Welcome to the MCS Bot! How can I assist you?')

def diagnose(update: Update, context: CallbackContext) -> None:

```
patient_case = ' '.join(context.args)
  swarm = MedicalCoderSwarm(patient_id="Patient-oor", max_loops=1,
patient_documentation=patient_case)
  diagnosis = swarm.run(task=patient_case)
  update.message.reply_text(f"Diagnosis: {diagnosis}")
updater = Updater("TELEGRAM_API_KEY")
updater.dispatcher.add_handler(CommandHandler("start", start))
updater.dispatcher.add_handler(CommandHandler("diagnose", diagnose))
updater.start_polling()
updater.idle()
```

## 🏧 API Integration and Testing

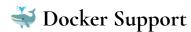
#### Run the API Locally

Clone the repository and launch the API:

```
git clone https://github.com/The-Swarm-Corporation/MedicalCoderSwarm.git
cd api
chmod +x bootup.sh
./bootup.sh
```

Test your setup:

Unset python3 test.py



Deploy MCS using Docker for a seamless setup:

Unset docker-compose up

#### Stop the container:

Unset

docker-compose down

## \* How to Submit Your Work

- I. Fork the repository on GitHub.
- **2**. Create a branch for your feature (git checkout -b feature/my-feature).
- **3.** Commit your changes (git commit -m 'Add my-feature').
- **4.** Push the branch to your fork (git push origin feature/my-feature).
- 5. Open a pull request describing your feature.

## **FAQs**

#### 1. How do I claim a bounty?

Submit your pull request on GitHub, tagging the specific bounty. Once reviewed and approved, your bounty will be transferred in \$MCS tokens.

#### 2. What's \$MCS?

\$MCS is the native token for the Medical Coding Swarm ecosystem, used for rewarding contributors and powering ecosystem activities.

# Let's Build the Future of Medical Assistance Together!

Contribute your skills, earn rewards, and make a difference in the medical field. Join us in creating a secure, scalable, and accessible platform that empowers people worldwide.

Ready to get started? <u>Join our Discord</u> or check out the <u>GitHub Repo</u> today!