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.

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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.

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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.

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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.

🛠️ 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.

🔗 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"
```

🖥️ Example Bot Usage

Here's how you can create a Telegram bot:

Telegram Bot

1. **Install Required Libraries**:

```
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pip install python-telegram-bot
```

2. **Sample Code**:

```
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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-001", 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:

```
Unset
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
```

🐳 Docker Support

Deploy MCS using Docker for a seamless setup:

```
Unset
docker-compose up
```

Stop the container:

```
Unset
docker-compose down
```

🌟 How to Submit Your Work

1. 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? Join our Discord or check out the GitHub Repo today!