**[DOCUMENT TITLE: STATEMENT OF WORK]**

**Project:** Autonomous Crypto Journalist Agent  
**Version:** 1.0  
**Date:** [Insert Date]  
**Author:** [Your Name / Company]

**1. Project Overview**

We aim to build an **autonomous crypto journalist** that gathers real-time information from various blockchain/crypto sources, objectively reports on it across social platforms, and eventually integrates crypto payment functionality. By splitting the project into **two phases**, we can establish a strong, journalistic agent first (Phase 1) and then expand to include wallet-based transactions (Phase 2).

**2. Scope of Work & Phases**

**Phase 1: Core Journalist Agent**

1. **Data Collection Layer**
   * **Goal:** Implement web crawlers or API connectors to gather news, market updates, and real-time content from leading crypto news outlets (CoinDesk, Cointelegraph, Decrypt, etc.) and daily or weekly newsletters.
   * **Activities:**
     + Set up scraping framework (e.g., Scrapy, Playwright, Puppeteer) or official APIs where provided.
     + Store essential article data (headlines, timestamps, authors, links) in a database for reference.
2. **Training the Model for Objective Reporting**
   * **Goal:** Ensure the AI/LLM (e.g., GPT-4 or a fine-tuned model) consistently produces neutral, fact-based analysis without bias or personal opinion.
   * **Activities:**
     + Fine-tune or prompt-engineer an LLM to write like a professional journalist, focusing on factual reporting and balanced viewpoints.
     + Implement editorial rules (e.g., neutral language, avoid investment advice, maintain credible sources).
     + Evaluate “Objectivity Scores” for generated content to confirm minimal bias.
3. **Automated Content Generation**
   * **Goal:** Summarize, synthesize, and post updates across social media platforms.
   * **Activities:**
     + Use AI summarization or paraphrasing to create concise news briefs.
     + Optionally incorporate sentiment analysis (only if it doesn’t skew objectivity).
     + Provide a scheduling feature (daily, hourly) or event-based triggers for posting.
4. **Social Integration**
   * **Goal:** Automatically post content to Twitter, Discord, and Telegram, and respond to user interactions.
   * **Activities:**
     + **Twitter:** Use the Twitter API to post tweets, reply to mentions, or DM subscribers (subject to Twitter’s policies).
     + **Discord:** Connect to a bot to post updates in specific channels, respond to pings.
     + **Telegram:** Send news to a channel/group, reply to basic user commands.
     + Implement error handling and log any rate-limit or API issues.
5. **Dashboard & Basic Monitoring**
   * **Goal:** Provide an interface or console for administrators to oversee the agent’s operations.
   * **Activities:**
     + Show scheduled posts, logs of posted content, and any engagement metrics available via the platform APIs.
     + Provide toggles for source inclusion/exclusion, posting frequency, editorial constraints, and objectivity guidelines.
6. **Security & Compliance (Phase 1)**
   * **Goal:** Adhere to all data usage and platform guidelines.
   * **Activities:**
     + Securely store API keys (Twitter, Discord, Telegram).
     + Ensure scraping does not violate terms of service for any news source.
     + Follow best practices for data privacy (e.g., not storing personal data without permission).

**Deliverable for Phase 1**  
A functional, objective, autonomous journalist agent that scrapes crypto news, summarizes it, and posts to social channels in an unbiased, neutral style.

**Phase 2: Crypto Wallet Integration & Payments**

1. **Wallet Setup & Management**
   * **Goal:** Enable the agent to hold and manage crypto funds.
   * **Activities:**
     + Integrate with a chosen wallet solution (e.g., a Gnosis Safe for more controlled spending, or an EOA with secure private key management).
     + Configure wallet actions: view balance, transaction logs, and set spending limits.
2. **Inbound & Outbound Transactions**
   * **Goal:** Facilitate payments for proprietary info/data, and receive user contributions (tips, subscriptions, etc.).
   * **Activities:**
     + **Pay Data Providers:** For premium APIs or closed-source intelligence.
     + **Accept Tips or Paid Subscriptions:** For exclusive market insights, behind-the-scenes data, or deeper analytics.
     + Implement transaction logging (time, amount, purpose) for transparency.
3. **Security & Compliance (Phase 2)**
   * **Goal:** Ensure safe custody of funds and compliance with relevant crypto regulations.
   * **Activities:**
     + Secure storage of private keys, possibly using hardware modules or multi-signature setups.
     + Adhere to AML/KYC requirements if user deposits exceed certain thresholds (depending on jurisdiction).
4. **Expansion of Dashboard**
   * **Goal:** Extend the admin console to include wallet functionalities.
   * **Activities:**
     + Display wallet balances, transaction history, and incoming/outgoing payments.
     + Allow authorized users to approve large transactions or set daily transaction caps.
5. **Testing & Deployment**
   * **Goal:** Validate all crypto-related features in a test environment before mainnet deployment.
   * **Activities:**
     + Conduct test transactions on a public testnet (e.g., Goerli, Sepolia) or a local dev environment.
     + Run security audits or peer reviews for the wallet integration code.

**Deliverable for Phase 2**  
A fully operational journalist agent capable of holding and transacting in crypto, seamlessly integrating with Phase 1 features to pay for data and receive user payments.

**3. Milestones & Timeline**

**Phase 1 Milestones**

1. **M1: Data Pipeline & Basic Summaries**
2. **M2: Model Training for Objective Journalism**
3. **M3: Social Platform Integration**
4. **M4: Admin Console & Final Testing**

*Estimated Duration: 6–8 weeks (subject to developer evaluation).*

**Phase 2 Milestones**

1. **M5: Wallet Integration & Testing**
2. **M6: Inbound/Outbound Payment Flows**
3. **M7: Extended Dashboard & Audit**
4. **M8: Final Deployment & Maintenance**

*Estimated Duration: 4–6 weeks (following completion of Phase 1).*

**4. Cost & Budget**

* **Phase 1**: Request a separate quote for building the autonomous agent with objective reporting, data scraping, content generation, and social integration.
* **Phase 2**: Request a quote for wallet integration, crypto payments, and enhanced dashboard functionalities.

Developers can provide a combined quote with **line-item pricing** for each phase or separate quotes to reflect the staged approach.

**5. Acceptance Criteria**

**Phase 1**

1. **Functional Data Scraping & Summaries**: Gather and summarize at least 90% of relevant crypto news daily.
2. **Neutral & Objective Content**: Achieve a high threshold of unbiased language (tested via sample reviews).
3. **Successful Automated Posting**: The agent posts reliably to Twitter, Discord, and Telegram, respecting platform rate limits.

**Phase 2**

1. **Secure Wallet Functionality**: Agent can hold crypto, sending/receiving transactions without critical errors or security breaches.
2. **Transaction Logging**: All inbound/outbound payments are recorded with timestamps and details.
3. **Operational Dashboard**: Admin panel updated to manage wallet, spending limits, and transaction reviews.

**6. Additional Notes**

* **Scalability**: Future expansions may include integration with additional social channels or more advanced editorial workflows (e.g., long-form articles).
* **Maintenance**: Ideally, the developer provides post-launch support packages.
* **Legal & Compliance**: Must follow the terms of service for all scraped news sources, social platforms’ developer agreements, and any relevant crypto regulations.

**Conclusion**

This **two-phase** approach ensures we first establish a robust, objective, and reliable **Autonomous Journalist Agent** (Phase 1) before adding **crypto transaction capabilities** (Phase 2). We invite the developer to propose a detailed plan, timeline, and cost estimate for both phases, ensuring the agent delivers unbiased crypto news while eventually handling its own financial transactions.

**Sign-Off:**

* **Client Name / Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Developer Name / Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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