

Project Work Guidelines

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Post Creation Program Project

Project Overview

- What is the objective of this project?
 - - Develop a system that, upon detecting new competitor advertisement posts, automatically deletes existing ads and registers new advertisements complete with text and images.
 - - Efficiently manage advertisements by utilizing two separate accounts (Power Listings & Personal Listings).
 - - Provide users with options to freely modify advertisement settings such as price and content.
 - - Maintain higher visibility by applying logic that treats any post not created by the user as a competitor's advertisement.
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Task Checklist

Phase 1: Core Functionality Implementation

- Competitor Advertisement Detection and Alert
 - Establish an algorithm for detecting competitor advertisement posts on the target platform.
 - Configure scanning and alert settings based on predefined keywords.
- Automatic Deletion of Existing Advertisements
 - Power Listings: Automatically delete up to 5 advertisements.
 - Personal Listings: Automatically delete 1 post per day.
 - Design the timing and prioritization logic for deletion.
- New Advertisement Registration (Including Text & Images)
 - Automatically register a new advertisement immediately after deletion.
 - Ensure that the registration process includes advertisement details such as content, image, and price.
 - Enforce the principle of registering up to 5 ads for Power Listings and 1 ad per day for Personal Listings.

- Management of Two Separate Accounts
 - Implement automatic login for both the Power Listings and Personal Listings accounts.
 - Configure account separation to facilitate simultaneous automatic login on a single device.
 - Securely store the credentials (user ID and password) for both accounts within the settings.
 - Advertisement Setting Modification
 - Design the UI/UX to allow users to directly modify advertisement settings (e.g., price, content).
 - Apply business logic that ensures changes are reflected immediately.
 - Fully Automated Execution Mode
 - Develop a workflow that executes the complete process automatically without user intervention.
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Phase 2: Integration and Finalization

- Integration and Data Flow Verification
 - Conduct integrated testing of the entire workflow: competitor detection → deletion of existing ads → new advertisement registration.
 - Final Testing and Validation
 - Execute scenario tests for each account and functionality.
 - Verify that logging and error-handling mechanisms are operational in the event of any errors.
 - Deployment and User Guide Documentation
 - Package the fully automated execution mode for deployment.
 - Provide a concise user guide focusing on key UI elements and operational instructions.
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Technical Considerations

Tech Stack & Implementation Approach

- Concentrate on the primary business logic, including the competitor detection algorithm and advertisement deletion/registration procedures.
- Apply secure credential storage and facilitate simultaneous management for both accounts.
- Utilize a modular code structure that segregates functionalities to simplify maintenance.

Important Considerations

- Establish clear criteria to distinguish competitor posts from user-generated posts.
- Rigorously test session and token management for simultaneous logins.
- Implement robust error-handling measures to address potential exceptions during automated execution.

Performance Optimization Tips

- Adjust scanning intervals and deploy efficient data scanning techniques during advertisement detection.
- Minimize API calls and leverage caching strategies.
- Develop synchronization and collision prevention strategies when managing multiple accounts.

Pro Tips

- Effective Workflow
 - Test modules sequentially in the following order: competitor advertisement detection → ad deletion → ad registration.
 - Clearly define integration testing timelines after developing individual functionalities.
- Points of Caution
 - Closely monitor potential issues during account login and authentication processes.
 - Ensure that changes to advertisement settings are reflected immediately by considering asynchronous processing where applicable.
- Preventing Common Pitfalls
 - Account for exceptional cases within the automated workflow, assuming no direct user intervention.
 - Strengthen transaction management to preempt data synchronization issues.

Happy Coding!

If you have any questions or additional feedback, please feel free to raise them in the team chat.

Let's work together to achieve outstanding results!