SoGossip

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Design Patterns Lab-07

Problem Statement

You have been hired to build a Social Media Aggregator application. The goal of this app is to consolidate notifications from various social media platforms (e.g., Twitter, Facebook, LinkedIn, and Instagram) and allow users to view and interact with all notifications from one place.

This app has the following requirements:

1. Notification Aggregation:

   - Users want to see notifications from multiple social media platforms in a single feed.
   - Each platform has a different API, data format, and notification model.

2. User Interaction with Notifications:

   - Users should be able to mark notifications as "read" or "unread" and "delete" notifications directly from the aggregator.
   - Interaction methods (e.g., marking as read/unread, deleting) may vary for each platform, so the application must accommodate these differences.

3. Simplified Interface for Client Code:

   - The app should have a straightforward way to retrieve and interact with notifications without needing to know the complexities of each platform's API.
   - As additional social media platforms may be added over time, the application should be flexible enough to support these new integrations without overhauling the client-side code.

Design the application keeping in mind that we might decide to add any other social media application in the future.