HeartSteal
Use-Case Specification: Track Usage Frequency

Version 1.0

Revision History

Date	Version	Description	Author
18/07/2025	1.0	Initial version	Lưu Vĩnh Phát

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1.   Use-Case Introduction

1.1   Brief Description

This use case describes how the system tracks and displays how frequently a user engages with the application. This includes measuring login counts, feature usage, and session frequency over defined time periods. The information is used by administrators to evaluate user engagement and identify trends or inactivity.

1.2   Primary Actor

Administrator

2.   Flow of Events

2.1   Basic Flow

1. The system automatically logs relevant events each time a user interacts with the application.
2. Event types include login, photo uploads, comment posts, likes, and report submissions.
3. Each interaction is timestamped and recorded in the system database.
4. The administrator logs in and navigates to the "Usage Analytics" section.
5. The administrator selects a user or group of users to track.
6. The system generates a report showing the frequency of various actions over time (e.g., daily, weekly, monthly).
7. The administrator reviews or exports the report.

2.2   Alternative Flows

2.2.1   *No usage data found (From step 5)*
1. If the selected user has not performed any trackable actions during the specified time period, the system displays:
    "No usage data found for the selected user or time range."
2. The administrator may choose a different user or timeframe.

3.   Special Requirements

- The system must timestamp and classify each interaction by user ID and event type.
- Usage data should be viewable by feature type and time interval.
- The report must support export to CSV, PDF, or be visualized as a chart.
- The system must process and return results within 3 seconds for standard queries.
- Data privacy policies must be respected, and only authorized admins may access usage metrics.

4.   Preconditions

- Event logging is enabled in the system.
- The administrator is authenticated and has access to analytics features.

5.   Postconditions

- The administrator views a usage report summarizing how frequently the user interacted with different parts of the application.
- If data is unavailable or filtered incorrectly, the system notifies the administrator and does not display a report.

6. Prototype

Total Logins	Photo Uploads	Comments	Likes	Reports
4	2	4	11	0

Timeline View   Activity Comparison   Activity Distribution

Daily Activity Timeline
User engagement over time