
Pentominoes

HeartSteal
Use-Case Specification: View User Session Duration

Version 1.0

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Use-Case Specification: View User Session Duration	Date: 18/07/2025

Revision History

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

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Table of Contents

1. Use-Case Introduction	4
1.1 Brief Description	4
1.2 Primary Actor	4
2. Flow of Events	4
2.1 Basic Flow	4
2.2 Alternative Flows	4
2.2.1 No session data found (From step 5)	4
2.2.2 Invalid date (From step 4)	4
3. Special Requirements	4
4. Preconditions	4
5. Postconditions	4
6. Prototype	5

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1. Use-Case Introduction

1.1 Brief Description

This use case describes how an administrator views the duration of user sessions within the application. The feature helps monitor usage patterns, identify inactive accounts, or audit user behavior for performance and security purposes.

1.2 Primary Actor

Administrator

2. Flow of Events

2.1 Basic Flow

1. The administrator logs into the admin dashboard.
2. The administrator navigates to the “Analytics” or “User Activity” section.
3. The system displays an overview of users with filtering options.
4. The administrator selects a specific user or time range.
5. The system displays session duration data including: login time, logout time, total duration, and session history.
6. The administrator may sort, export, or analyze the data for further insights.

2.2 Alternative Flows

2.2.1 No session data found (From step 5)

1. If there are no session records for the selected user or timeframe, the system displays:
“No session data found for the selected criteria.”
2. The administrator may choose a different filter or exit the view.

2.2.2 Invalid date (From step 4)

1. If the administrator enters an invalid or future date range, the system shows an error:
“Invalid date range. Please enter a valid period.”
2. The system prevents query execution until corrected.

3. Special Requirements

- The session data must include login time, logout time, duration, and device/IP information.
- The system must allow export of session data in CSV or Excel format.
- Only authorized administrators can view session logs.
- Data queries should return results within 3 seconds for typical filters.
- Data retention must follow organizational policy (e.g., 90 days, 1 year).

4. Preconditions

- The administrator is authenticated with access to analytics or user activity data.
- User sessions have been previously recorded in the system.

5. Postconditions

- Session duration information is displayed, and the administrator may analyze or export the data.
- If no session data is found or the query fails, the system informs the administrator and does not display session logs.

6. Prototype

Navigation

Dashboard

User Activity

Users

Reports

Dashboard

Session Analytics

Session durations, login patterns, and activity data.

Filter & Search

Filter data by user, date range, or search criteria

Search

me, email, or ID...

Select User

All Users

From Date

mm/dd/yyyy

To Date

mm/dd/yyyy

Order

Newest First

Export CSV

Session Duration Data

Sessions

	Login Time	Logout Time	Duration	Device	IP Address	Status
<div>Personsonson@example.com</div>	<div>1/15/2024, 11:00:00 PM</div>	<div>Still active</div>	<div>🕒 Active</div>	<div>🖥️ Desktop Firefox</div>	<div>192.168.1.102</div>	<div>Active</div>
<div>Personith@example.com</div>	<div>1/15/2024, 9:20:00 PM</div>	<div>1/15/2024, 10:30:00 PM</div>	<div>🕒 1h 10m</div>	<div>📱 Mobile Safari</div>	<div>192.168.1.101</div>	<div>Completed</div>

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