
Pentominoes

HeartSteal
Use-Case Specification: React to Message

Version 1.0

HeartSteal	Version: 1.0
Use-Case Specification: React to Message	Date: 18/07/2025

Revision History

Date	Version	Description	Author
18/07/2025	1.0	Provide a use case specification for Reacting to a Message	Võ Trung Hiếu

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Use-Case Specification: React to Message

1. Use-Case Introduction

1.1 Brief Description

This use case describes how a user can react to a message sent by a friend in the real-time chat interface of the HeartSteal app. Users can react to any message with emojis or reply directly using the quoted message feature

1.2 Primary Actor

The User

2. Flow of Events

2.1 Basic Flow

1. The user opens the app and logs in successfully.
2. The user taps on the chat icon.
3. The system navigates to the Chat interface, displaying a list of friends.
4. The user selects a friend by tapping on their name or chat bar.
5. A chat box with that friend opens. The user chooses which message to react to by pressing that message.
6. A menu appears with six default emoji reactions (e.g., ❤️, 😊, 😐, 😞, 😡, 👍) and a Reply icon.
7. To use a different emoji, the user can tap the “+” icon to choose a new one. A curved arrow icon (Reply) allows you to respond directly to the message. The selected message appears as a quoted message above the input field for context.
8. When you select an emoji to react to a message, that emoji will appear below the message in the bottom-right corner. Alternatively, when you select the reply icon, the message you’re replying to appears above the text input field as a quoted message. After typing your response in the text input field and tapping the send button, your message will appear in the chat with the quoted message above it, displayed in a slightly faded format for context.

2.2 Alternative Flows

2.2.1 Can't send message (step 5)

1. If your internet connection is unavailable, selecting an emoji to react to a message will not display the reaction in your friend's chat box. Similarly, if you reply to a message, your reply will appear on your screen as a normal message with the quoted message above it, but it will be marked with a small red error indicator (e.g., an exclamation mark) showing that the message failed to send. Once the internet connection is restored, the app may retry sending the reply automatically

2.2.2 Block by friend (step 5)

1. The system prevents all message interactions, including reacting or replying. An alert is shown: “You cannot interact with messages from this user.”

3. Special Requirements

- Reactions must appear instantly on both users' chat interfaces.
- Each message can have only one reaction per user (reacting again replaces the previous one).
- Replies should preserve the link to the original message using a quoted message format.

4. Preconditions

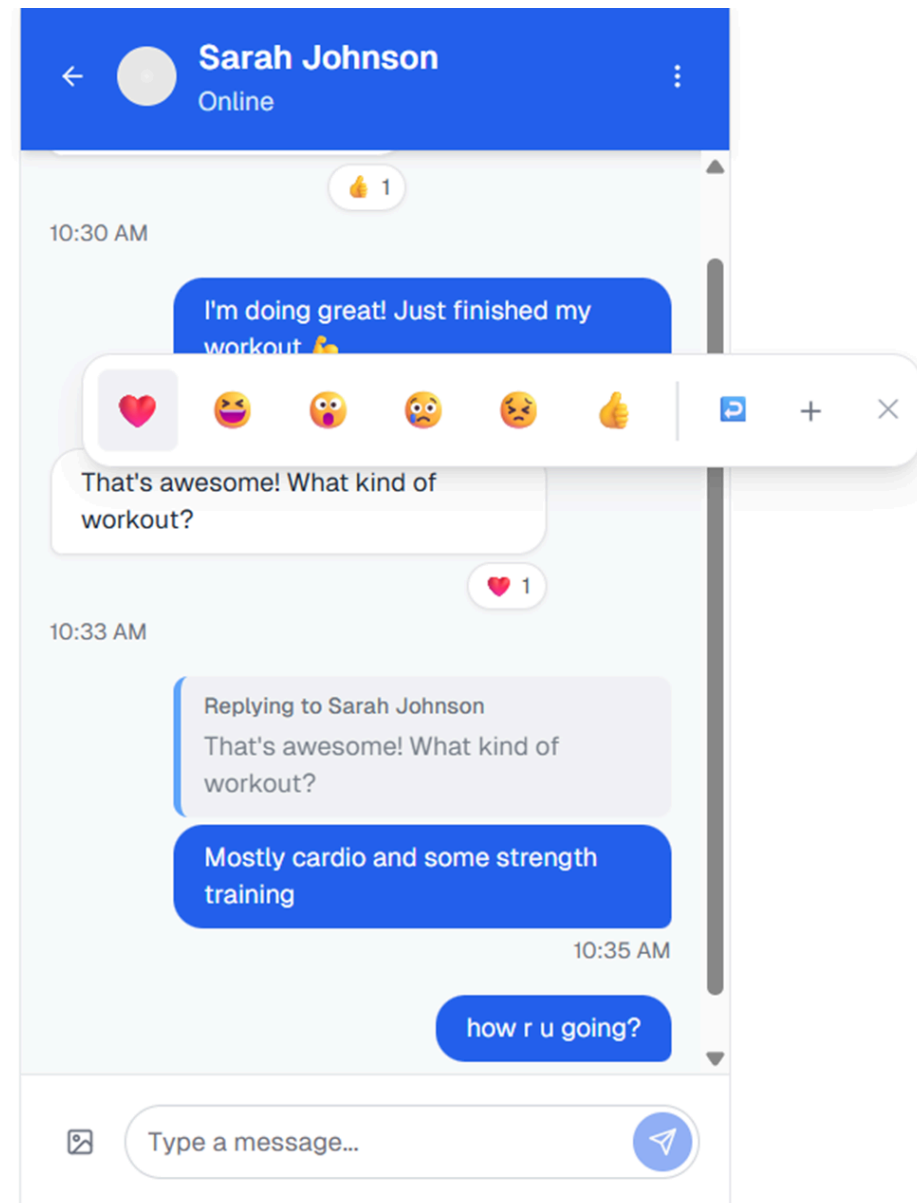
- The user must be logged into the app.
 - The user must have an active chat with a friend.
- The user must have an internet connection to ensure real-time delivery.

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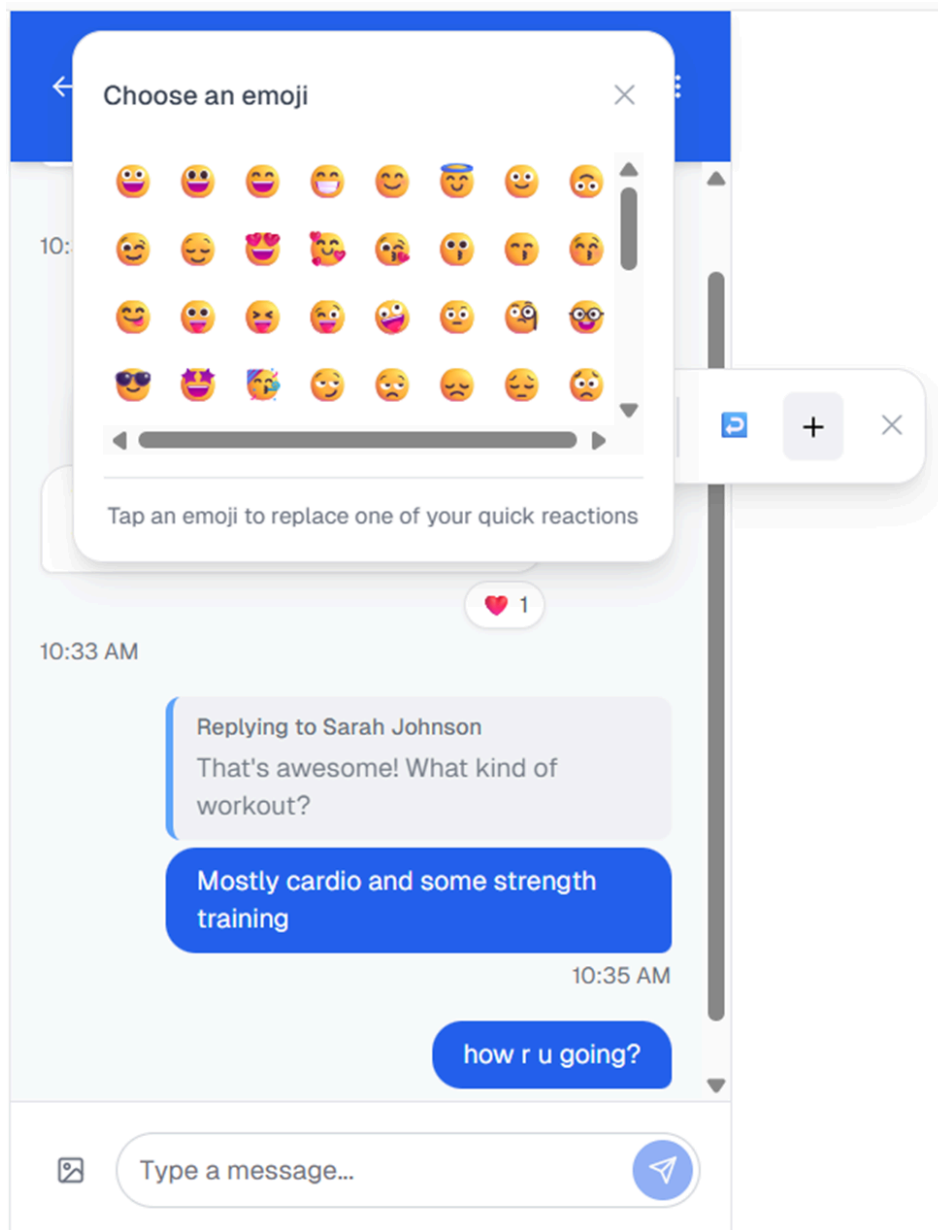
5. Postconditions

- If the reaction is successful, it appears in real time on both users' screens.
- If a reply is successfully sent, it is stored in the conversation history with its linked (quoted) message.

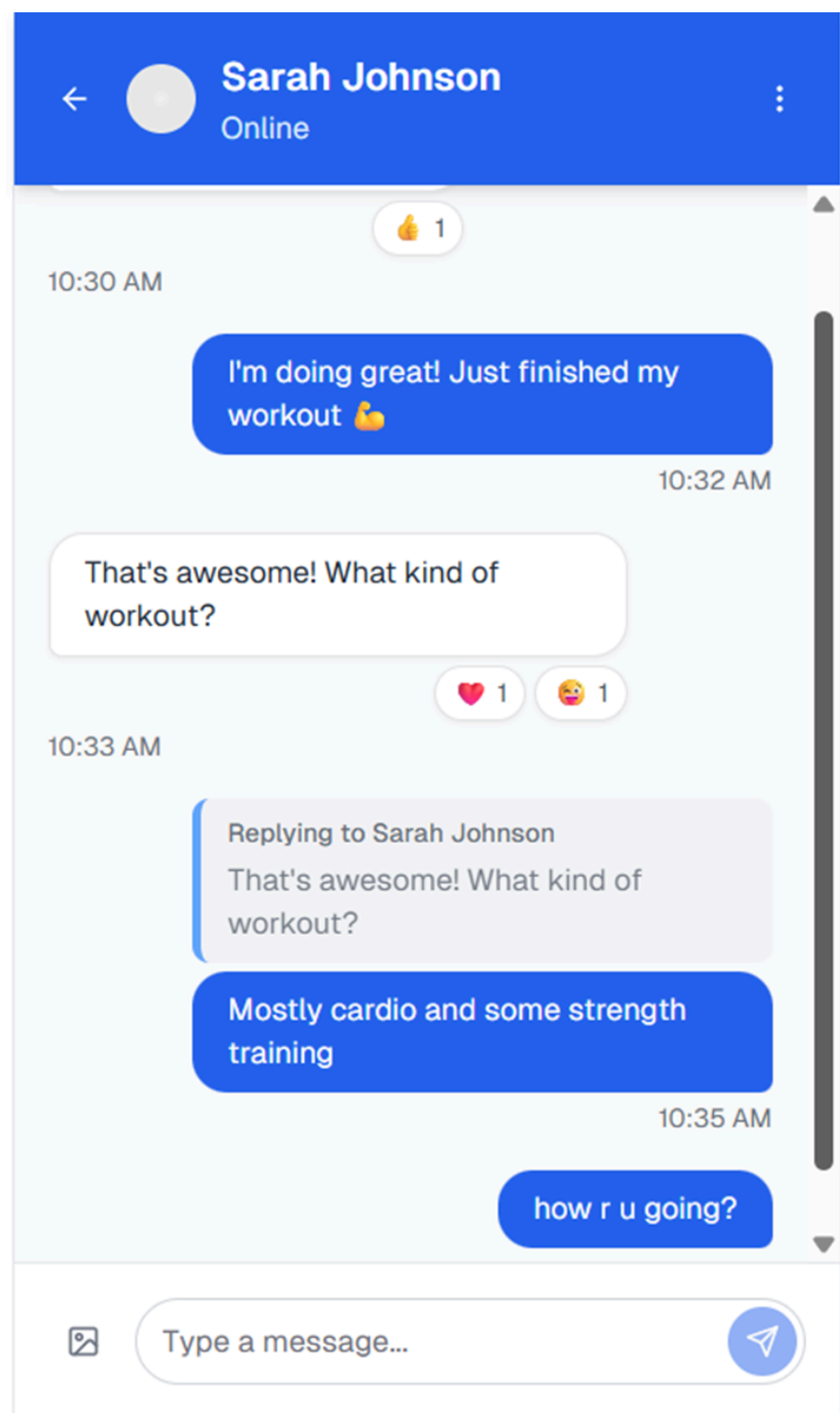
6. Prototype



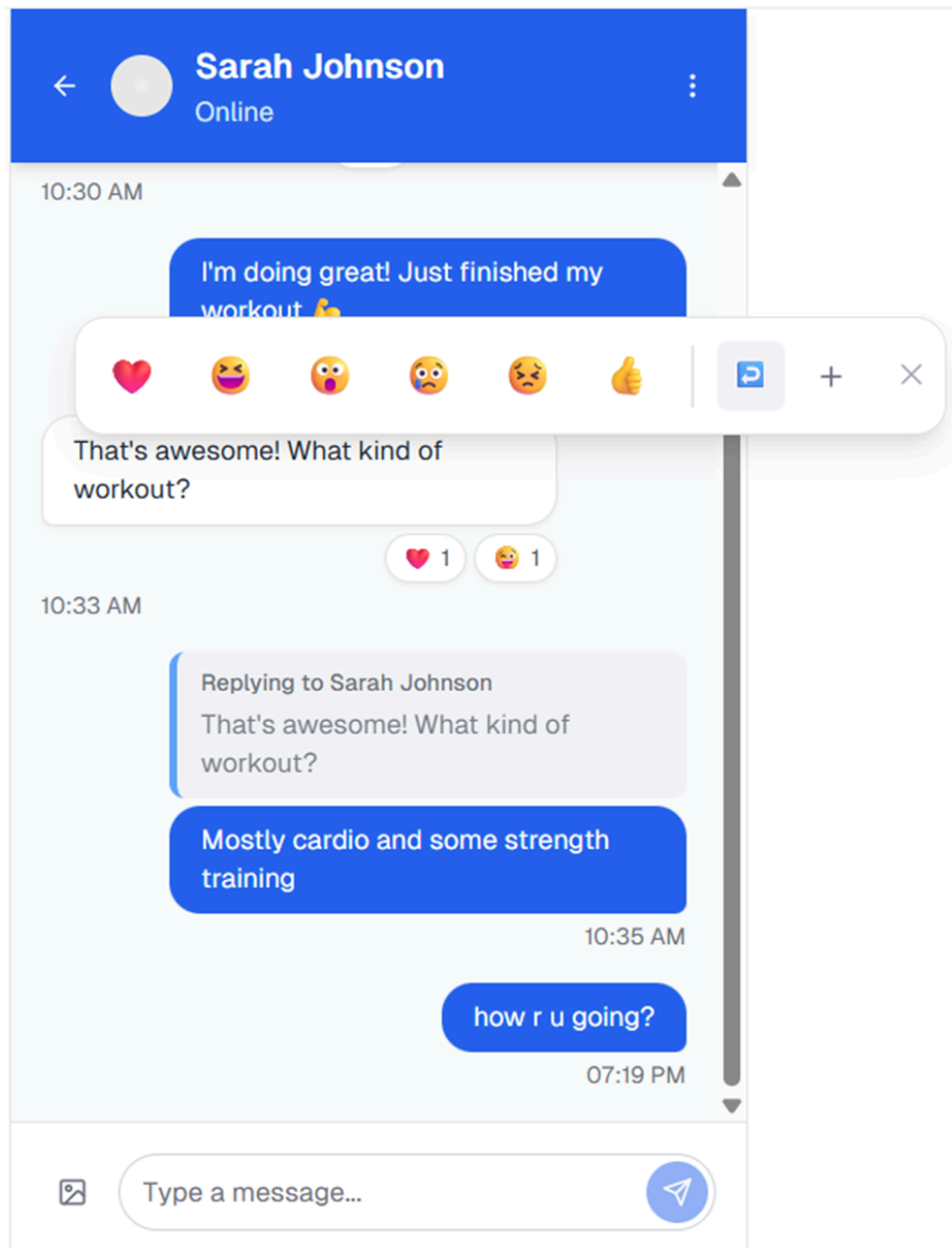
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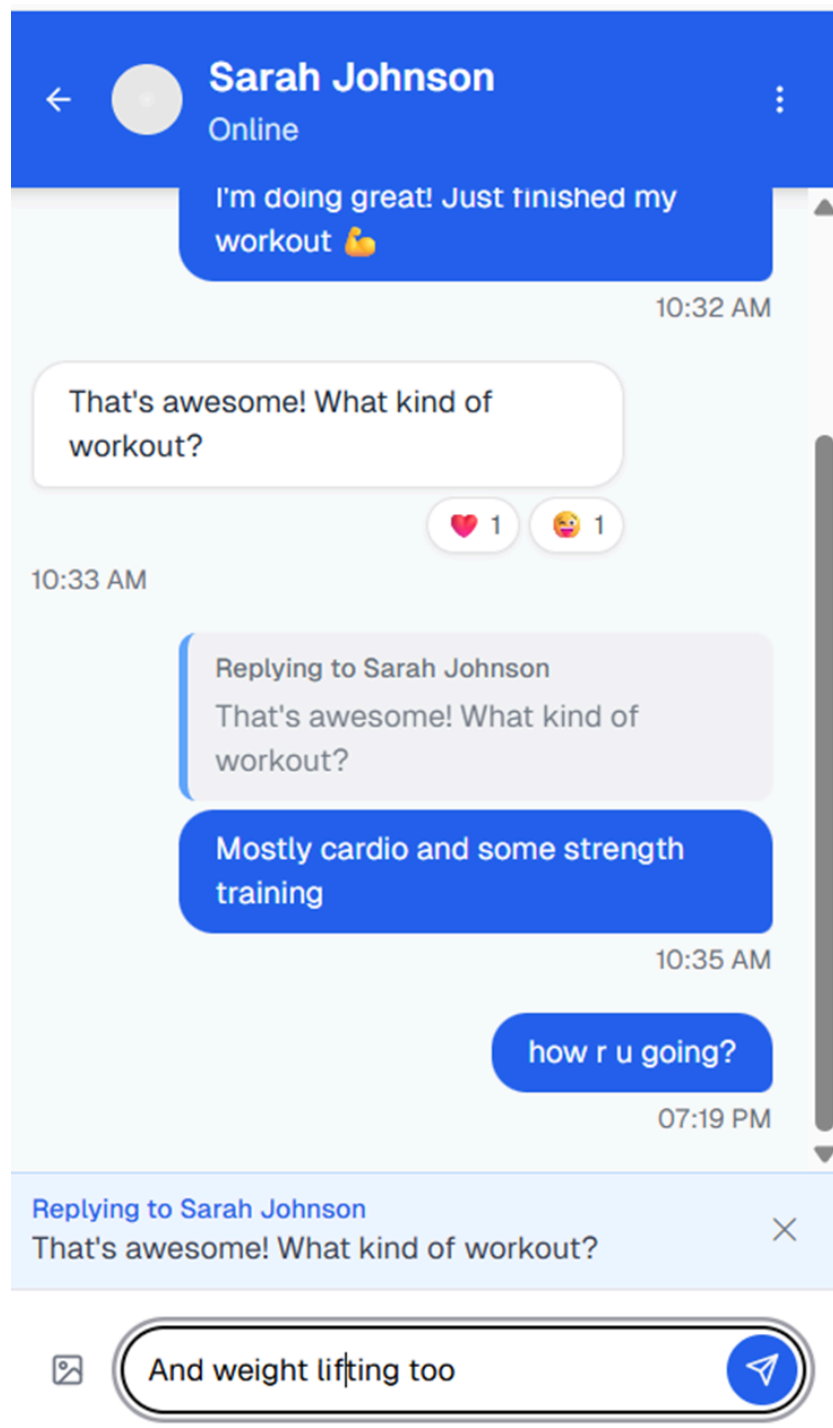
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