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**Pentominoes**

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**HeartSteal**  
**Use-Case Specification: Add Friend**

**Version 1.0**

HeartSteal	Version: 1.0
Use-Case Specification: Add Friend	Date: 18/07/2025

## Revision History

Date	Version	Description	Author
18/07/2025	1.0	Provide a use case specification to add a friend	Võ Trung Hiếu

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# Use-Case Specification: Add Friend

## 1. Use-Case Introduction

### 1.1 Brief Description

This use case describes how a user adds a friend while using the app.

### 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. On the main screen, the user taps the Add Friend bar or icon.
3. The system navigates to the Add Friend screen, which contains a search bar.
4. The user taps the search bar and types the friend's ID to find. There will be no suggested friends list. To add a friend, you can only enter their code, which they provide directly to you or through another app
5. A matching user is displayed.
6. The user finds the desired friend and taps the **Add** button next to their avatar.
7. The system checks if the request is valid (not duplicated, not already friends, within friend limit (20 friends for normal users and 60 friends for premium users).
8. If valid, the system sends a friend request to the selected user.
9. A confirmation message is shown: "Friend request sent."

### 2.2 Alternative Flows

#### 2.2.1 No matching user (step 4)

1. If no matching users are found, a message is shown: "No users found. Try a different name or username."

#### 2.2.2 Already Friend (step 6)

1. If the selected user is already a friend, the **Add** button is replaced by a tick icon to show that you are friends

#### 2.2.3 Request already sent (step 7)

1. If a request has already been sent, the button shows **Pending** and cannot be tapped again.

#### 2.2.4 Friend Limit Reached (step 7)

1. If the user has reached their friend limit (20 for normal users, 60 for premium), a notification appears: "You've reached your friend limit. Upgrade to Premium to add more friends." The Add button is disabled until space is available.

## 3. Special Requirements

- The system should check for duplicate friend requests.
- Each user can have a maximum number of friends (normal 20, premium 60).
- The recipient should receive a notification immediately when a new request is received.
- Friend suggestions can be based on contacts, mutual friends, or recent activity.

## 4. Preconditions

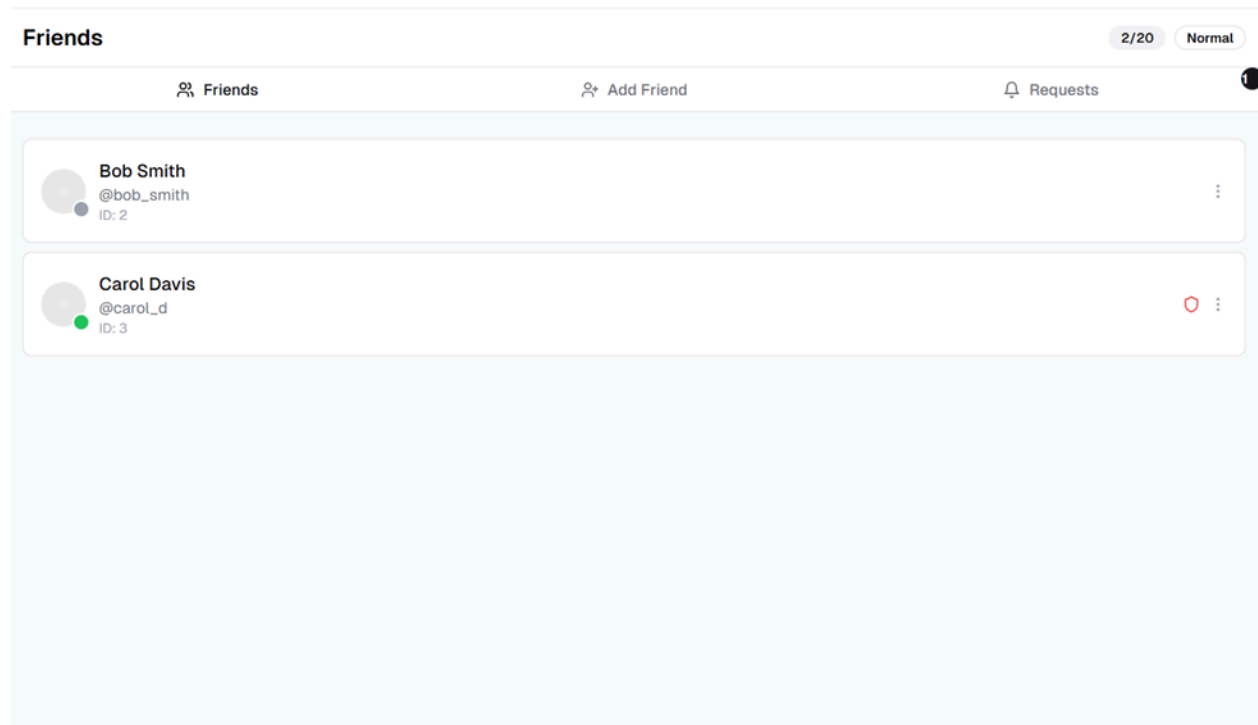
- The user must be logged into the app.
- The user must have access to an internet connection.

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## 5. Postconditions

- A pending friend request is created and stored.
- The recipient sees a notification and can choose to Accept or Ignore.  
Once accepted, both users are added to each other's friend list.

## 6. Prototype



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Friends

2/20Normal

Friends

Add Friend

Requests

1

Q 12346

Maria Garcia

@maria\_g

ID: 12346

Add

Friends

2/20Normal

Friend request sent.

Friends

Add Friend

Requests

1

Q 12346

Maria Garcia

@maria\_g

ID: 12346

Pending