Integration Guide: Enhanced Persistent Piece Reactions

Overview

This enhanced reaction system gives each piece a persistent emotional state that reflects their current situation in the game. Each piece will continuously display reactions based on their position, threats, and opportunities.

Key Features

Persistent Emotions

- Home States: Trapped, eager to start
- Path States: Confident, hunting, scared, vulnerable, safe
- **Special States**: Chasing, being chased, blocking enemies
- Victory States: Almost home, finished

Dynamic Updates

- Reactions update every 2 seconds
- Emojis rotate within each emotion category
- Temporary reactions override persistent ones

Integration Steps

1. Import the Enhanced Reaction System

```
javascript

// Add to your computer.js imports
import {
    initializeAllPieceEmotions,
    updateAllPieceReactions,
    updateReactionsLoop,
    onPieceKill,
    onRollSix,
    onPieceCantMove,
    triggerTemporaryReaction,
    addReactionStyles
} from './enhanced_reactions.js';
```

2. Initialize on Game Start

Replace your existing (window.onload) function:

```
javascript
window.onload = async function() {
    initializeBoard();
    createPieces();

    // Add these new lines
    addReactionStyles();
    initializeAllPieceEmotions();
    updateReactionsLoop(); // Start the reaction update loop

    onGameStart();
    await nextTurn();
    gameStarted = true;
};
```

3. Update Existing Functions

Replace (showPieceReaction) function:

```
javascript

// Replace the existing simple function with:
function showPieceReaction(piece, emoji) {
    // This is now handled by the persistent system
    // You can trigger temporary reactions instead:
    triggerTemporaryReaction(piece, 'CONFIDENT', 2000);
}
```

Update rollDice function:

```
javascript
```

```
async function rollDice() {
   // Your existing code...
   // Replace the existing emoji assignment with:
   if (diceValue === 6) {
        const currentPlayerPieces = players[currentTurn].pieces;
       onRollSix(currentPlayerPieces);
   }
   // Your existing playable pieces logic...
   if (playablePieces.length === 0) {
       // Instead of just ending turn, show reaction
       playablePieces.forEach(piece => {
           onPieceCantMove(piece);
       });
       dice.style.pointerEvents = 'auto';
       await nextTurn();
   }
   // Rest of your existing code...
```

Update (checkAndKillOpponent) function:

```
async function checkAndKillOpponent(movedPiece) {
    const currentCell = movedPiece.parentNode;
    const movedPiecePlayer = movedPiece.dataset.player;
   if (currentCell.classList.contains('safe-cell')) {
        return:
   }
    const piecesOnCell = Array.from(currentCell.querySelectorAll('.piece'));
    await Promise.all(piecesOnCell.map(async piece => {
        if (piece !== movedPiece && piece.dataset.player !== movedPiecePlayer) {
            const opponentPlayer = players[piece.dataset.player];
            const pieceId = piece.dataset.pieceId;
            const pieceNumber = parseInt(pieceId.split('-')[1]);
            iskilledOtherPlayer = true;
           // Add this line to trigger reactions
            onPieceKill(movedPiece, piece);
            const homeCircle = document.getElementById(opponentPlayer.homeCircles[pieceNumber -
            if (homeCircle) {
                await animatePieceToCell(piece, homeCircle, 500);
                piece.dataset.position = 'home';
                piece.dataset.pathIndex = -1;
                piece.style.width = `${pieceSize}px`;
                piece.style.height = `${pieceSize}px`;
            }-
   }));
    arrangePiecesInCell(currentCell);
```

Update (nextTurn) function:

```
javascript
```

```
async function nextTurn() {
    stopHeartbeat(currentTurn);
    await sleep(500);
    const currentIndex = playerColorsInGame.indexOf(currentTurn);
    currentTurn = playerColorsInGame[(currentIndex + 1) % playerColorsInGame.length];
    currentPlayerDisplay.textContent = currentTurn;
    currentPlayerDisplay.className = '';
    currentPlayerDisplay.classList.add(`${currentTurn}-turn`);
    startHeartbeat(currentTurn);
    changeDiceColor(currentTurn);
   // Add this line to update reactions when turn changes
    updateAllPieceReactions();
   if (computerPlayers[currentTurn]) {
        dice.style.pointerEvents = 'none';
        await diceRollAnimation();
   }
```

4. CSS Enhancements

The system automatically adds required CSS animations. Make sure your positioning:

```
CSS
 .piece {
    position: relative; /* Ensure pieces are positioned relatively */
 .piece-emoji {
    position: absolute;
    top: -8px;
    right: -5px;
    font-size: 12px;
    z-index: 10;
    pointer-events: none;
    display: block;
    line-height: 1;
    transition: all 0.3s ease:
 }-
Emotion Categories
Home Emotions
• TRAPPED_AT_HOME: 😤 😒 🙄 😑 🕸 😪
• EAGER_TO_START: 👺 😂 😂 🥺 👀
Path Emotions
• CONFIDENT: 😍 🙄 🕶 🦾 🐯 💧
 • HUNTING: 🦁 🐯 🐯 🦈 🤝 🎯
 • VULNERABLE: 🙋 😧 👀 🚱 😬 🛕
 • SCARED: 😱 🔞 🤢 🔯 💀 🐹
 • SAFE_AND_HAPPY: 😊 😔 🚺 🤭 👺
© Special Emotions
• CHASING_OPPONENT: 🟃 💨 🎯 🕴 💧 😤
 • BEING_CHASED: 🏃 💨 😱 😵 😵

    ALMOST_HOME: ₩ Ø → Ø ★

 • FINISHED: 🚆 🁑 🎉 🏅 🧩 🧎
```

♦ Temporary Reactions

- JUST_KILLED: ♥ • ♥ ⑥ ★ (4 seconds)
- JUST_GOT_KILLED: 🔞 💔 😵 🐹 😥 💀 (4 seconds)
- ROLLED_SIX: ₩ 6 👺 👭 🕇 🎉 (2 seconds)

Benefits

- 1. Immersive Experience: Each piece has personality and reacts to the game state
- 2. Strategic Feedback: Players can see which pieces are in danger or hunting
- 3. **Emotional Connection**: Players develop attachment to their pieces
- 4. Visual Storytelling: The game tells a story through piece reactions
- 5. **Enhanced Gameplay**: Reactions provide subtle hints about game strategy

Customization

You can easily customize reactions by:

- Adding new emotion categories to (PIECE_EMOTIONS)
- Modifying emoji sets for different themes
- Adjusting update frequency in updateReactionsLoop
- Adding new temporary reaction triggers

The system is designed to be extensible and can grow with your game's features!