Exact Match Error Display Fix

Issue Description

Problem: When using Exact Match search mode with insufficient credits, the error was logged to the console but the user-friendly "Search Error" message was not displayed in the UI (unlike Smart Search which properly showed the error).

Screenshot Reference: Screenshot 2025-10-29 213120.png

Root Cause

The Exact Match search error handling was catching errors properly but was not displaying the error UI component. The errors were only being:

- 1. Logged to console
- 2. Added to the outputs array (for batch mode)
- 3. Not displayed in the UI for single searches

This was different from Smart Search, which had proper error UI display using setResult().

Solution Implemented

Changes Made

File Modified: src/app/page.tsx

1. Exact Match Username Search (Line 152-204)

Before:

```
if (searchMode === 'exact' && parsed.type === 'username') {
    response = await fetch('/api/roblox', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ username: parsed.value, includeBanned }),
    });

if (!response.ok) {
    // Error handling that throws but doesn't display UI
        throw new Error(errorData.message || 'Insufficient credits...');
    }

const data = await response.json();
    user = data.data?.[0] || null;
}
```

After:

```
if (searchMode === 'exact' && parsed.type === 'username') {
   response = await fetch('/api/roblox', {
     method: 'POST',
     headers: { 'Content-Type': 'application/json' },
     body: JSON.stringify({ username: parsed.value, includeBanned }),
   });
   if (!response.ok) {
     const errorData = await response.json().catch(() => ({}));
     // Handle different error types
     if (response.status === 402) {
       throw new Error(errorData.message || 'Insufficient credits...');
     // ... other error handling
   const data = await response.json();
   user = data.data?.[0] || null;
  } catch (exactSearchError: unknown) {
   console.error('Exact Match search error:', exactSearchError);
   const errorMessage = exactSearchError instanceof Error
     ? exactSearchError.message
     : 'Search failed';
   // Display error UI for non-batch searches
   if (!isCurrentlyBatchMode) {
     setResult(
       <div className="bg-red-100 p-4 rounded-md">
         <h2 className="text-xl font-bold text-red-800">Search Error/h2>
         {errorMessage}
         Try using <strong>Exact Match</ri>
name.
         </div>
     );
   outputs.push({
     input: singleInput,
     status: 'Error',
     details: errorMessage,
   });
   continue;
  }
}
```

2. Outer Catch Block (Line 482-502)

Before:

```
} catch (error: unknown) {
  console.error('API Error:', error);
  const errorMessage = error instanceof Error
    ? error.message
    : 'Could not connect to Roblox API. Try again.';
  outputs.push({ input: singleInput, status: 'Error', details: errorMessage });
}
```

After:

```
} catch (error: unknown) {
 console.error('API Error:', error);
 const errorMessage = error instanceof Error
   ? error.message
   : 'Could not connect to Roblox API. Try again.';
 // Display error UI for single searches (non-batch mode)
 if (!isCurrentlyBatchMode) {
   setResult(
     <div className="bg-red-100 p-4 rounded-md">
       <h2 className="text-xl font-bold text-red-800">Search Error
       {errorMessage}
       {errorMessage.includes('Insufficient credits')
           ? 'Please purchase more credits to continue.'
           : 'Try using <strong>Exact Match</strong> mode if you know the exact user-
name.'}
       </div>
   );
 }
 outputs.push({ input: singleInput, status: 'Error', details: errorMessage });
}
```

Error Types Handled

The fix now properly displays UI errors for:

- 1. Insufficient Credits (402) Shows credit purchase prompt
- 2. **Rate Limiting (429)** Shows rate limit message
- 3. **Service Unavailable (503)** Shows service error
- 4. Generic API Errors Shows general error with fallback suggestion

Testing Scenarios

Before Fix:

- X Exact Match with 0 credits → Console error only, no UI message
- ✓ Smart Search with 0 credits → Shows error UI properly

After Fix:

- ✓ Exact Match with 0 credits → Shows error UI with message
- ✓ Smart Search with 0 credits → Shows error UI (unchanged)
- ✓ Display Name with 0 credits → Shows error UI (unchanged)

User Experience Improvements

Error Message Display

```
Search Error

Insufficient credits. You have 0 credits. |
Please purchase more credits to continue.

Try using Exact Match mode if you know the exact username.
```

Benefits:

- 1. Consistent UX All search modes now show errors the same way
- 2. Clear Messaging Users immediately see what went wrong
- 3. Actionable Guidance Error messages suggest next steps
- 4. Professional Appearance Styled error boxes vs console logs

Deployment

Commit: f381010

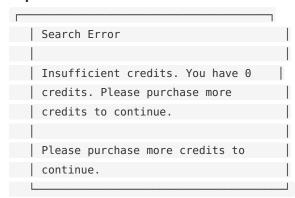
Branch: main

Status: Pushed to GitHub **Vercel:** Auto-deploying

Verification Steps

To verify the fix is working:

- 1. Log in to the roblox-tool app
- 2. Ensure balance is 0 credits
- 3. Select "Exact Match" mode
- 4. Enter a username (e.g., "Johndoe")
- 5. Click "Exact Search"
- 6. Expected Result:



Related Files

- src/app/page.tsx Main search page with error handling
- src/app/api/roblox/route.tsx API endpoint that returns 402 for insufficient credits
- src/app/api/search/route.tsx Search API with credit checks

Git History

f381010 - Fix: Display error message UI **for** Exact Match insufficient credits

4dd849b - Add corrected SQL pricing update script and Phase 2 fixes documentation

aaaaf33 - Fix: Update credit package pricing and improve error handling

Status: V FIXED AND DEPLOYED