TypeScript Error Fixes - Summary

Repository

jgabbard61/roblox-tool (main branch)

Commit

0e845bb - "Fix TypeScript errors in rate limit components"

Issues Fixed

1. alert.tsx (src/app/components/ui/alert.tsx)

Issue 1: React UMD Global Error

- **Error**: Line 5, Col 15: 'React' refers to a UMD global, but the current file is a module
- **Fix**: Added `import React from 'react';` at the top of the file

Issue 2: Missing Component Exports

- **Error**:
- Alert is declared but not exported
- AlertTitle component completely missing
- AlertDescription component completely missing
- **Fix**:
- Changed `const Alert` to `export const Alert`
- Added `Alert.displayName = "Alert"`
- Implemented and exported `AlertTitle` component with proper TypeScript types
- Implemented and exported `AlertDescription` component with proper TypeScript types

2. rate-limit-detector.ts (src/app/lib/utils/rate-limit-detector.ts)

Issue: Missing formatRetryDuration Function

- **Error**: Line 5: Module has no exported member 'formatRetryDuration'
- **Fix**: Implemented and exported `formatRetryDuration(seconds: number): string` function with:
- Proper handling of singular/plural forms
- Display in seconds (< 60s)
- Display in minutes and seconds (≥ 60s)
- Clean, human-readable output format

Files Modified

1. **src/app/components/ui/alert.tsx**
   - Added React import
   - Exported Alert component

- Added AlertTitle component implementation
- Added AlertDescription component implementation
- Added displayName properties for better debugging

2. **src/app/lib/utils/rate-limit-detector.ts**
   - Added formatRetryDuration function implementation
   - Exported formatRetryDuration function

Verification

✅ **TypeScript compilation passed** - `npx tsc --noEmit` returns no errors
✅ **All import/export issues resolved**
✅ **All components properly typed with TypeScript interfaces**
✅ **Changes committed and pushed to main branch**

Component Details

Alert Component

- **Type**: ForwardRef component accepting AlertProps
- **Props**: Extends React.HTMLAttributes
- **Variants**: "default" | "destructive"
- **Styling**: Tailwind CSS with dark mode support

AlertTitle Component

- **Type**: ForwardRef component accepting AlertTitleProps
- **Props**: Extends React.HTMLAttributes
- **Element**: h5 with medium font weight and tight tracking

AlertDescription Component

- **Type**: ForwardRef component accepting AlertDescriptionProps
- **Props**: Extends React.HTMLAttributes
- **Styling**: Small text with relaxed paragraph leading

formatRetryDuration Function

- **Input**: number (seconds)
- **Output**: string (human-readable duration)
- **Examples**:
- `30` → "30 seconds"
- `1` → "1 second"
- `60` → "1 minute"
- `90` → "1 minute and 30 seconds"
- `125` → "2 minutes and 5 seconds"

Status

✅ **All TypeScript errors resolved and verified**
✅ **Changes successfully pushed to GitHub**