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| Bug Analysis Report |
| Tinyflix Video Streaming Platform |

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# Findings

A diagram of bugs overview

AI-generated content may be incorrect.

# Prioritized Bug List

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| **Bug #** | **Title** | **Severity** | **Priority** |
| 1 | Video Playback Failure | Critical | P0 |
| 2 | Authentication Buttons Non-Functional | High | P1 |
| 3 | Special Characters Break Display | Medium | P1 |
| 4 | Bookmark Formatting Errors | Medium | P2 |
| 5 | Reply Comment Likes Not Working | Medium | P2 |
| 7 | Recent Filter Shows No Videos | Medium | P2 |
| 8 | Mobile Layout Misalignment | Medium | P3 |
| 9 | Inconsistent Thumbnails on Refresh | Low | P3 |
| 10 | Identical Thumbnails for All Videos | Low | P3 |
| 11 | Missing 404 Page | Low | P3 |

# Authentication Buttons Non-Functional

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| Description | The sign-in and sign-up buttons in the header appear clickable but trigger no action when pressed. This critical authentication failure prevents users from accessing personalized features like saving bookmarks or commenting. The issue likely stems from missing event handlers or unimplemented authentication flows. |
| Severity | High |
| Steps to Reproduce | 1. Launch the application using npm run dev 2. Navigate to the homepage 3. Click the "Sign In" button in the header 4. Click the "Sign Up" button in the header |
| Expected Behavior | * Authentication modal or dedicated page should open * User should be able to enter credentials |
| Actual Behavior | * No authentication interface appears |
| Suggested Fix | * Implement authentication handlers connecting buttons to proper functionality * Add route configuration for sign-in/sign-up pages * Provide visual feedback during authentication process |
| Screenshot | Figure Header with Sign In/Sign Up buttons. After clicking, UI remains unchanged with no authentication |

# Video Playback Failure

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| Description | The core functionality of video streaming is completely broken. When users attempt to watch any video, they receive an error message instead of content playback. This critical failure prevents the application from serving its primary purpose. |
| Severity | Critical |
| Steps to Reproduce | Click any video thumbnail on the homepage |
| Expected Behavior | * Video should load and play with functional controls * Progress bar should show playback time |
| Actual Behavior | * "Error loading video. Please try again later" message displayed |
| Suggested Fix | * Verify existence of video files in /public/videos directory * Correct file path references in video data objects * Implement fallback error handling for missing media |
| Screenshot | Figure Video player area showing error message instead of content. Player controls are visible but non-functional. |

# Recent Filter Shows No Videos

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| Description | The "Recent" filter fails to display any content, suggesting an implementation error in date-based sorting. This prevents users from accessing the newest content, reducing engagement with fresh material. |
| Severity | Medium |
| Steps to Reproduce | 1. Click the "Recent" filter button in the header |
| Expected Behavior | * Videos should be filtered showing most recent uploads first * All videos with valid dates should appear |
| Actual Behavior | * Video list becomes empty with "No videos found" state * Console warning: Invalid date format in video objects |
| Suggested Fix | * Validate and standardize date formats in video metadata * Debug sorting algorithm for date comparisons * Add null handling for missing date values |
| Screenshot | Figure Empty video grid after selecting Recent filter, while other filters display content normally. |

# Bookmark Formatting Errors

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| Description | Bookmarking functionality produces inconsistent and confusing timestamp displays depending on where the bookmark was created. This inconsistency degrades user trust in the feature and creates a disjointed experience. |
| Severity | Medium |
| Steps to Reproduce | 1. **Main page**: Click bookmark icon → Check Bookmarks section 2. **Player**: Open video → Click bookmark icon → Check Bookmarks |
| Expected Behavior | * Consistent timestamp format: "Video Title at 0:00" |
| Actual Behavior | * Main page bookmarks show: "Video TitleNaN:NaN" * Player bookmarks show: "Video Title at 0:000:00" |
| Suggested Fix | * Implement standardized time formatting function * Add default timestamp (0:00) for non-playing bookmarks * Fix player time capture logic |
| Screenshot | Figure Two bookmarks shown: " NaN:NaN" and " at 0:000:00". |

# Reply Comment Likes Not Working

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| Description | The engagement feature for reply comments is non-functional. Users can like main comments but not replies, creating an inconsistent social experience and reducing interaction depth. |
| Severity | Medium |
| Steps to Reproduce | 1. Open any video with threaded comments 2. Find a comment with replies 3. Click like button on a reply comment |
| Expected Behavior | * Like count should increment by 1 * Visual feedback should confirm action |
| Actual Behavior | * Like count remains unchanged * No visual feedback on button clicks |
| Suggested Fix | * Ensure unique identifiers for reply comments * Connect like functionality to proper API endpoints * Implement UI state updates for visual feedback |
| Screenshot | Figure :Reply comment showing unchanged like count after multiple clicks. |

# Thumbnails Change on Refresh

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| Description | Video thumbnails display different images on each page refresh, creating visual inconsistency and confusing content identification. This suggests random image selection rather than fixed asset assignment. |
| Severity | Medium |
| Steps to Reproduce | 1. Note current thumbnails 2. Refresh page (F5) 3. Observe thumbnails 4. Repeat multiple times |
| Expected Behavior | Consistent thumbnails per video |
| Actual Behavior | * Different images load for same videos |
| Suggested Fix | * Assign fixed images to each video * Remove random selection implementation * Maintain consistent visual identity |
| Screenshot | Figure Series showing different thumbnails for same video after consecutive refreshes. |

# Mobile Layout Issues

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| Description | On mobile viewports, the comment section and bookmarks panel display alignment and overflow problems. This creates a subpar experience for mobile users, who represent a significant portion of streaming audiences. |
| Severity | Medium |
| Steps to Reproduce | 1. Open Chrome DevTools 2. Toggle device toolbar (Ctrl+Shift+M) 3. Select "iPhone 12" preset 4. Navigate to video page |
| Expected Behavior | * Responsive element alignment * No horizontal scrolling required |
| Actual Behavior | * Comment box overflows screen width * Bookmarks panel misaligned * Elements overlapping in player |
| Suggested Fix | * Implement responsive CSS for mobile breakpoints * Adjust element dimensions and padding * Test across multiple device sizes |
| Screenshot | Figure Mobile view showing misaligned comment box extending beyond screen width. |

# Special Characters in Comments

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| Description | The comment system accepts and displays raw special characters without sanitization, creating potential security vulnerabilities and occasional layout corruption. This exposes XSS risks through unvalidated input. |
| Severity | Medium (Security Risk) |
| Steps to Reproduce | 1. Open any video 2. Enter comment: <>&@#$!\*(){}[];'" 3. Submit comment |
| Expected Behavior | Special characters sanitized or escaped |
| Actual Behavior | * Raw characters displayed * Angle brackets sometimes break layout |
| Suggested Fix | * Implement input sanitization function * Escape HTML special characters * Add client-side validation |
| Screenshot | Figure Comment with raw special characters |

# Missing 404 Page

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| Description | Invalid URLs result in a blank screen rather than a helpful error page. This poor error handling fails to assist users in navigation recovery and presents an unprofessional experience. |
| Severity | Low |
| Steps to Reproduce | Enter invalid URL: http://localhost:5173/signin |
| Expected Behavior | Custom 404 page with navigation options |
| Actual Behavior | Nothing happens |
| Suggested Fix | * Create dedicated 404 component * Implement catch-all route handler * Add "Return to homepage" link |
| Screenshot | Figure No any signs of 404 errors |

# Identical Thumbnails for All Videos

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| Description | All videos display the same generic thumbnail image, eliminating visual differentiation between content. This reduces content discoverability and creates a monotonous browsing experience. |
| Severity | Low |
| Steps to Reproduce | View video list on homepage |
| Expected Behavior | Unique thumbnails for different videos |
| Actual Behavior | Same placeholder image for all content |
| Suggested Fix | * Assign distinct images to each video * Add thumbnail customization in video data * Implement fallback for missing thumbnails |
| Screenshot | Figure Video grid showing identical thumbnails for all videos. |

# Conclusion

Tinyflix currently lacks basic functional stability in core features like playback and authentication. While filtering and UI controls partially work, several bugs affect the platform’s usability and security. Immediate action is required on video playback and input validation.