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Plot Armor is a browser extension designed to block spoilers from websites and social media, ensuring your favorite shows, movies, and events remain unspoiled.

1. Core Components

- Main screen/Overlay/Dashboard
- Settings/Options Page
- Main Screen Breakdown:
 - Purpose: Provide users with control over their spoiler settings
 - Features:
 - Toggle Button (activate/deactivate)
 - Recent flagged content overview
 - Quick action buttons (e.g. "Whitelist site", "View blocked content")
 - Notification Area (e.g. "5 spoilers blocked today!")
- Settings/Options Page Breakdown:
 - Purpose: Allow users to customize the behavior of the spoiler blocker
 - Features:
 - Add keywords, phrases, or topics to block (e.g. "Spider-Man", "Breaking Bad", "death")
 - Utilize AI/NLP to enhance topic-censoring functionality
 - Manage pre-configured spoiler lists for popular shows, movies, or games
 - Customize blocking style (e.g. blur entire page, blur only sentences containing the spoiler, show warnings)
 - Whitelist/blacklist specific websites
 - Dark mode/appearance settings

2. Functional Components

- Keyword Matching and Content Detection System
 - Purpose: Identify spoilers in text, images, or videos based on user preferences
 - Features:
 - Use NLP (Natural Language Processing) to detect related phrases
 - Context-based analysis to improve precision (instead of blindly blocking all instances of a keyword)
 - Toggled off by default (WILL allow users to censor all instances of a keyword no matter the context)

- **Potential feature (v2):** provide compatibility with social media slang and abbreviations
 - This does go beyond the original scope of the extension but is a worthwhile idea
- **Blocking Mechanism**
 - Purpose: Actively hide or blur spoiler content in real-time
 - Features:
 - Blur text (keyword/sentence/phrase/whole page) based on user preference
 - For a more subtle option, users can choose a banner to appear for each instance of a spoiler, rather than any blur option
 - Replace spoiler text with a customizable placeholder (e.g. "Spoiler Detected!")
 - **Potential feature (v3):** blur images related to keywords/key phrases/blacklisted media
 - **Potential feature (v4):** block videos/suggest skipping sections where spoilers appear
- **Real-Time Scanning**
 - Purpose: Monitor websites dynamically as they load
 - Features:
 - Scan text, images (v3), or videos (v4) in real-time
 - Avoid lagging the browser by optimizing scanning performance
 - Alert users with a banner when spoilers are detected instead of blocking them automatically
 - Optional setting
- **Whitelist and Blacklist Management**
 - Purpose: Let users specify where blocking applies
 - Features:
 - Whitelist: Sites where blocking is disabled (e.g. news sites or forums)
 - Blacklist: Sites where blocking is always active (e.g. YouTube, Twitter)
 - Per-site customization (e.g. "Block only images on Reddit")

3. Optional (but valuable)

- **Features:**
 - User-friendly onboarding process
 - Provide an interactive setup wizard when the extension is first installed
 - Prepopulate popular spoiler lists (e.g. trending TV shows/Movies)
 - Statistics and history
 - Show users how many spoilers have been blocked
 - Option to review or undo specific blocking actions (e.g. adding a "Recently Blocked" list)

- Cross-device syncing
 - Sync user preferences across multiple devices through a cloud service or browser account
- Community integration
 - Allow users to share or import spoiler lists from other users (e.g. trending TV shows/Movies)
 - Integrate with community-voted keyword list to stay up to date on popular topics
- Custom alert sounds/visuals
 - Provide themed alert options (e.g. “Caution!” sound or animation”)

4. Technical Considerations

● Browser Compatibility

- Ensure support for major browsers like Chrome, Firefox, Edge, and Safari
- Use WebExtensions API for cross-browser compatibility

● Performance Optimization

- Ensure the extension doesn't slow down the browsing experience
- Use asynchronous operations and minimize the impact of real-time scanning

● Privacy Assurance

- Clearly communicate how data is handled (no tracking, minimal local processing)
- Avoid sending user data (e.g. browser history or detected keywords) to external servers unless absolutely necessary