**Encrypted Journal**

A secure, password-protected personal journal application built with vanilla HTML, CSS, and JavaScript. Keep your thoughts and reflections private with client-side encryption.

**Features**

**🔐 Security & Privacy**

* **Client-side encryption**: All data is encrypted using a simple XOR cipher before being stored locally
* **Password protection**: Master password required to access your journal
* **Local storage**: All data stays on your device - no server required

**✍️ Journaling Features**

* **Rich writing interface**: Clean, distraction-free writing environment
* **Mood tracking**: Select from 8 different moods for each entry
* **Writing prompts**: Built-in inspiration prompts plus custom prompt management
* **Entry management**: Edit, delete, and restore journal entries

**📚 Organization & Discovery**

* **Monthly filtering**: Browse entries by specific months and years
* **Full-text search**: Search through all your entries
* **Random entry**: Discover forgotten memories with random entry selection
* **Trash system**: Soft delete with restore functionality

**🎨 User Experience**

* **Responsive design**: Works on desktop, tablet, and mobile devices
* **Modern UI**: Clean, gradient-based design with smooth animations
* **Intuitive navigation**: Tab-based interface for easy access to all features
* **Visual feedback**: Success/error messages and loading states

**Getting Started**

**Prerequisites**

* A modern web browser (Chrome, Firefox, Safari, Edge)
* No additional software or server setup required

**Installation**

1. Download the index.html file (or the complete project)
2. Open the file in your web browser
3. That's it! The application runs entirely in your browser

**First Time Setup**

1. Open the application in your browser
2. Enter any password of your choice (this will be your master password)
3. Click "Unlock Journal" to create your encrypted journal
4. Remember your password - you'll need it to access your entries

**Usage**

**Writing Entries**

1. Navigate to the **Write** tab
2. Use the inspiration prompts for ideas or start writing directly
3. Select your current mood from the mood selector
4. Click "Save Entry" to encrypt and store your reflection

**Reading Entries**

1. Go to the **Read** tab
2. Use month filters to browse entries by time period
3. Edit or delete entries using the action buttons
4. Entries are displayed with date, mood, and full text

**Searching**

1. Visit the **Search** tab
2. Type keywords to find specific entries
3. Search works across entry text and mood tags

**Random Discovery**

1. Click the **Random** tab
2. Use "Show Random Entry" to rediscover past reflections
3. Perfect for nostalgic moments or reflection

**Managing Prompts**

1. Access the **Prompts** tab
2. Add custom writing prompts to inspire future entries
3. Click any prompt to start writing with that inspiration

**Trash Management**

1. Deleted entries are moved to the **Trash** tab
2. Restore accidentally deleted entries
3. Permanently delete entries when ready

**Security Notes**

**Encryption Details**

* Uses a simple XOR cipher for client-side encryption
* Password is used as the encryption key
* **Important**: This is basic encryption suitable for personal privacy, not military-grade security

**Data Storage**

* All data is stored in your browser's localStorage
* Data persists between browser sessions
* Clearing browser data will remove all entries
* **Backup recommendation**: Export your data periodically

**Password Security**

* Choose a strong, memorable password
* **Lost password = lost data** - there's no recovery method
* Consider using a password manager
* Password is never transmitted or stored anywhere

**Browser Compatibility**

**Supported Browsers**

* Chrome/Chromium 60+
* Firefox 55+
* Safari 11+
* Edge 79+

**Required Features**

* localStorage support
* ES6 JavaScript features
* CSS3 animations and transforms
* Font Awesome icons (loaded from CDN)

**Technical Details**

**File Structure**

encrypted-journal/

├── index.html # Complete application (HTML, CSS, JS)

└── README.md # This file

**Dependencies**

* Font Awesome 6.4.0 (loaded from CDN)
* No other external dependencies

**Key Functions**

* simpleEncrypt() / simpleDecrypt(): Handle data encryption/decryption
* saveData() / loadData(): Manage localStorage operations
* handleLogin(): Authentication and data decryption
* handleSaveEntry(): Entry creation and editing
* Tab management and UI updates

**Customization**

**Styling**

* Modify CSS variables in the <style> section
* Gradient backgrounds can be changed in the body selector
* Color scheme is defined at the top of the CSS

**Prompts**

* Default prompts are in the inspirationList initialization
* Custom prompts can be added through the UI
* Modify the default prompts in the HTML section

**Moods**

* Mood options are defined in the HTML mood selector
* Add new moods by modifying the .mood-option elements
* Update the getMoodEmoji() function for new mood emojis

**Troubleshooting**

**Common Issues**

**"Incorrect password" error**

* Ensure you're using the exact same password as when you created the journal
* Password is case-sensitive
* Clear browser cache and try again if issues persist

**Entries not loading**

* Check browser console for JavaScript errors
* Ensure localStorage is enabled in your browser
* Try refreshing the page

**Styling issues**

* Ensure Font Awesome CDN is accessible
* Check if browser supports CSS Grid and Flexbox
* Try a different browser to isolate the issue

**Data loss prevention**

* Regularly backup your entries by copying the encrypted data from localStorage
* Don't clear browser data without backing up first
* Consider using the same browser consistently

**Privacy & Data Handling**

**What's Stored**

* Encrypted journal entries
* Encrypted mood data
* Encrypted custom prompts
* Encrypted trash entries
* All data is stored locally in your browser

**What's NOT Stored**

* Your master password (only used for encryption/decryption)
* Any data on external servers
* Personal information beyond what you write

**Data Portability**

* Data is stored in localStorage as encrypted JSON
* Manual export/import would require additional development
* Consider implementing backup features for important journals

**Contributing**

This is a single-file application perfect for personal use and learning. Potential improvements:

**Suggested Enhancements**

* Export/import functionality
* Stronger encryption algorithms
* Rich text editing capabilities
* Image attachment support
* Cloud sync options
* Multiple journal support
* Advanced search filters
* Data visualization (mood trends, writing frequency)

**Development Setup**

1. Clone or download the file
2. Open in any text editor
3. Make modifications to HTML, CSS, or JavaScript
4. Test in browser
5. No build process required

**License**

This project is provided as-is for personal use. Feel free to modify and distribute according to your needs.

**Support**

For issues or questions:

1. Check the troubleshooting section above
2. Inspect browser console for error messages
3. Test in different browsers to isolate issues
4. Consider the technical limitations of client-side encryption

**Remember**: This journal is only as secure as your password and browser security. For highly sensitive information, consider using dedicated encrypted note-taking applications with stronger security features.