X-Sheet Project Management Integration Guide

Overview

The project management system has been integrated into your existing modular X-Sheet tool structure. It provides organized folder-based project management while preserving all existing functionality.

New Files Created

1. (js/projectManager.js)

- New module following your existing (XSheetApp) namespace pattern
- Handles project folder creation, setting, and file management
- Integrates with existing FileHandler for fallback functionality

Modified Files

1. (index.html)

- Added project management buttons in header
- Updated script loading order to include (projectManager.js)
- Added new UI elements for project status display

2.(js/projectData.js)

- Added project folder handle properties
- Added (setProjectFolder()) method
- Enhanced (initNewProject()) to clear project folder references
- Added project folder change event dispatching

3.(js/main.js)

- Integrated ProjectManager initialization
- Enhanced audio import to support project-aware importing
- Enhanced save/load to use project folders when available
- Added project management UI elements to the elements object

4. (css/style.css)

Added styling for project controls section

- Added responsive design for project management UI
- Maintained all existing styles

How It Works

Project Structure

When you create a project, it creates this folder structure:

Workflow Integration

1. Create Project:

- Creates organized folder structure
- Sets up project references in ProjectData

2. Set Project:

- Selects existing project folder
- Automatically finds/creates scenes and audio subfolders

3. Smart File Operations:

- Audio Import: Copies files to project audio folder and loads them
- Save Scene: Saves JSON files to project scenes folder
- Load Scene: Loads from scenes folder and auto-loads associated audio

4. Fallback Support:

- Works with browsers that don't support File System Access API
- Falls back to existing FileHandler methods when no project is set

Key Features

- Non-Breaking: All existing functionality works exactly as before
- Progressive Enhancement: Project features only activate when supported and used
- Smart Audio Loading: Automatically tries to load audio files when loading scenes
- Visual Feedback: Project status indicator shows current project
- Reset Capability: Clean reset to fresh X-Sheet state

Usage Instructions

For New Projects:

- 1. Click "Create Project"
- 2. Choose where to create your project folder
- 3. Import audio files (automatically saved to project)
- 4. Work on your scenes and save them (automatically organized)

For Existing Projects:

- 1. Click "Set Project"
- 2. Navigate to your existing project folder
- 3. Tool automatically finds scenes and audio folders
- 4. Load existing scenes (audio auto-loads if available)

Legacy Mode:

- If no project is set, everything works as before
- Regular file save/load dialogs are used
- Audio import uses standard file picker

Technical Integration

The system uses your existing modular architecture:

Browser Compatibility

- Modern Browsers (Chrome, Edge): Full project management with File System Access API
- Other Browsers: Graceful fallback to existing file handling
- Feature Detection: Automatically detects and uses appropriate methods

providing powerful new organizational capabilities for animation projects.	hile