

Excel Editor Pro - Professional Data Management System

A modern, professional Excel file editor with smart suggestions, beautiful Japanese-inspired UI, and powerful data management features.

✨ Features

- **Smart Suggestions:** Backend + algorithm-based suggestions for faster data entry
- **Beautiful UI:** Japanese-inspired design with glass effects and smooth animations
- **Dual View Modes:** Table view and Card view for different editing needs
- **Multi-Datatype Support:** Automatic detection for numbers, dates, and text
- **Advanced Filtering:** Multi-column filters and global search
- **Undo/Redo:** Full history tracking with keyboard shortcuts
- **Auto-save:** Automatic saving to localStorage
- **Responsive:** Works on desktop, tablet, and mobile
- **Keyboard Navigation:** Full keyboard support for suggestions and navigation

🚀 Quick Start

Development

```
bash

# Install dependencies
npm install

# Run development server
npm run dev

# In another terminal, run the API server (optional for suggestions)
npm start
```

Visit <http://localhost:5173>

Production Build

```
bash
```

```
# Build for production
```

```
npm run build
```

```
# Start production server
```

```
npm start
```

Railway Deployment

Step 1: Push to GitHub

```
bash
```

```
git init
```

```
git add .
```

```
git commit -m "Initial commit"
```

```
git remote add origin YOUR_GITHUB_REPO_URL
```

```
git push -u origin main
```

Step 2: Deploy on Railway

1. Go to [Railway.app](#)
2. Click "New Project" → "Deploy from GitHub repo"
3. Select your repository
4. Railway will auto-detect the Node.js app
5. Set the following:
 - **Build Command:** `npm install && npm run build`
 - **Start Command:** `npm start`
 - **Port:** Railway auto-assigns (no change needed)

Step 3: Verify Deployment

- Railway will provide a URL like `your-app.railway.app`
- Visit the URL to see your app live!

Configuration

Environment Variables (Optional)

Create a `.env` file for custom configuration:

```
.env
```

PORT=3000

NODE_ENV=production

Customizing Suggestions

Edit `data/suggestions.json` to add backend suggestions for specific columns.

Checklist After Deployment

- Verify the app loads without blank page
- Test file upload functionality
- Check that suggestions work (both backend and common values)
- Test undo/redo
- Verify auto-save
- Test on mobile device
- Check browser console for errors

Troubleshooting

Blank Page Issues

1. Check Console: Open browser DevTools → Console tab

- Look for 404 errors on chunk files
- Check for JavaScript errors

2. Check Network Tab:

- Verify all assets load from correct paths
- Ensure server is serving `index.html` for all routes

3. Verify Build:

```
bash
```

```
npm run build  
ls dist/ # Should show index.html and assets/
```

4. Check Server Logs:

- In Railway dashboard, check application logs
- Look for startup messages

Common Issues

Problem: 404 on chunk files **Solution:** Ensure `vite.config.js` has `base: '/'` and server has SPA fallback

Problem: Suggestions not working **Solution:** Check if `data/suggestions.json` exists and server can read it

Problem: Auto-save not persisting **Solution:** `localStorage` may be disabled; data persists per-session only

Problem: Service worker caching old version **Solution:** Already handled - service workers are unregistered on load

🎨 Color Palette

The app uses a neutral, warm color scheme:

- **Sage:**  #6B705C - Primary text and accents
- **Stone:**  #B7B7A4 - Secondary elements
- **Terracotta:**  #C5866D - Primary buttons and highlights
- **Sand:**  #DDBEA9 - Gradients and backgrounds
- **Cream:**  #F1E3D3 - Borders and subtle backgrounds
- **Ivory:**  #FFF6EB - Main background

📦 Project Structure

```
excel-editor-pro/
├── src/
│   ├── components/
│   │   ├── SuggestionInput.jsx    # Smart input with suggestions
│   │   ├── Toast.jsx            # Toast notifications
│   │   └── JapaneseOrnament.jsx # Decorative background
│   ├── App.jsx                # Main application
│   ├── main.jsx               # Entry point
│   └── index.css              # Global styles
└── data/
    └── suggestions.json      # Backend suggestions
    ├── server.js              # Express server
    ├── vite.config.js         # Vite configuration
    ├── tailwind.config.js     # Tailwind configuration
    └── package.json           # Dependencies
```

Keyboard Shortcuts

- **Ctrl/Cmd + Z**: Undo
- **Ctrl/Cmd + Y** or **Ctrl/Cmd + Shift + Z**: Redo
- **Ctrl/Cmd + S**: Manual save
- **Arrow Keys**: Navigate suggestions dropdown
- **Enter**: Select suggestion
- **Escape**: Close suggestion dropdown
- **Left/Right Arrow** (Card view): Navigate between cards

Mobile Support

The app is fully responsive and includes:

- Touch-friendly buttons and inputs
- Optimized card view for mobile
- Responsive table with horizontal scroll
- Mobile-optimized suggestion dropdown

Data Privacy

- All data is stored locally in browser localStorage
- No data is sent to external servers
- File processing happens client-side
- Suggestions API only processes column metadata

License

MIT License - Feel free to use for personal or commercial projects

Contributing

Contributions welcome! Please open an issue or PR.