








AG Grid Excel-like Editable Cells

A React application demonstrating custom editable cells in AG Grid with Excel-like inline editing behavior and synchronized formula bar.

Features

-  Excel-like Formula Bar - Header input synchronized with selected cell
-  Custom Cell Editor - Inline editing with edit icon indicator
-  Bi-directional Sync - Changes reflect between cell and formula bar
-  Keyboard Navigation - Enter to save, Escape to cancel, Tab to move
-  Visual Feedback - Green border highlighting during editing
-  Single-click Editing - Click once to edit cells
-  Professional Grid - Sorting, filtering, resizing columns

Installation & Setup

Prerequisites

- Node.js (v16 or higher)
- npm or yarn

Step 1: Clone and Install

```
git clone <your-repository-url>
cd ag-grid-excel-editor
npm install
```

Step 2: Install Dependencies

```
npm install ag-grid-react ag-grid-community
```

Step 3: Start Development Server

```
npm start
```

Open <http://localhost:3000> in your browser.

Project Structure

```
src/
├── components/
│   ├── CustomCellEditor.jsx  # Custom cell editor with edit icon
│   ├── FormulaBar.jsx        # Excel-like formula bar
│   └── DataGrid.jsx          # Main grid component
├── data/
│   └── mockData.js           # Sample data
├── styles/
│   └── grid.css              # Custom grid styling
├── App.js                    # Main app component
└── index.js                  # Entry point with AG Grid setup
```

How to Use

1. Select a Cell: Click on any cell in the "Editable Value" column
2. Edit Options:
 - Direct editing: Single-click to edit in the cell
 - Formula bar editing: Use the input field at the top
3. Save Changes: Press Enter or click the ✓ button
4. Cancel Changes: Press Escape or click the ✕ button
5. Navigation: Use Tab, Enter, or arrow keys to move between cells

Technical Implementation

Core Components

- DataGrid: Main component managing grid state and cell synchronization
- CustomCellEditor: Handles inline editing with visual edit indicator
- FormulaBar: Excel-style header bar with save/cancel functionality
- Mock Data: Sample dataset for testing grid functionality

Key Technologies

- React 18 - Functional components with hooks
- AG Grid Community - High-performance data grid
- AG Grid Theming API - Modern styling approach (v34+)
- Custom Hooks - State management for bi-directional sync

Screenshots

AG Grid Excel-like Editable Cells

Click on the "Editable Value" column to see inline editing with formula bar sync

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Sample Text 1

ID	Name	Email	Editable Value
1	John Doe	john@example.com	Sample Text 1
2	Jane Smith	jane@example.com	Sample Text 2
3	Bob Johnson	bob@example.com	Sample Text 3
4	Alice Brown	alice@example.com	Sample Text 4
5	Charlie Wilson	charlie@example.com	Sample Text 5

Debug Info:

Row: 5 | Selected: Row 1, Col value | Formula Bar: "Sample Text 1"