## **Web-Application Mimicking Google Sheets**

## **Full Stack Project**

- This is web-application that closely mimics the user Interface and core functionalities of Google sheets, with a focus on mathematical and data quality functions, data entry and key UI interactions.
- This can be a spread-sheet engine with advance features like cell references, formulas, formatting, and basic function using React.
- Includes React components like spreadsheet, cell, toolbar and FormulaBar.
- It can help to convert cell references like 'A1' to data[0][0].
- It is a Google Sheets-style web application with React.

## **Web-App Features**

- A spreadsheet interface (cells, rows, columns, formula bars, toolbar).
- Basic styling and cell formatting controls.
- Mathematical and data-equity functions.
- The ability to add / delete / resize rows and columns.
- Data entry and Data Validation ( numeric only ).
- Support for dragging cell content.
- Find and replace and remove duplicate utilities.
- A mechanism for testing the functions (enter own data, applying formula).
- Google-sheet clone.
  - A simple formula parser to handle the requested functions: SUM, AVERAGE, MAX, MIN, COUNT, TRIM, UPPER, LOWER, REMOVE DUPLICATES and FIND AND REPLACE.
  - Mimic Google Sheets UI
  - For a Visual Design and layout that closely resembles Google Sheets.

```
google-sheets-clone/
src/
   - App.js
    components/
       Spreadsheet.js
       - Toolbar.js
       – FormulaBar.js
       - SheetCell.js
      — Modals.js
    utils/
      — formulaParser.js
    L- helpers.js
  - index.css
package.json
```

- Implemented drag functionality for cell content, formulas and selections to mirror Google sheets behaviour.
- Support for basic cell formatting (bold, italic, font size, colour).
- Ability to add, delete, and resize rows, and columns.
- Allow users to input various data types ( numbers, text, dates ).
- To manage drag and drop more robustly -> install react-beautiful-dnd or reactdnd

- Main application (App.js) ties the spreadsheet, toolbar, and formula bar. Also host the Find & Replace Modal.
- Git Commands used here to pushing it onto GitHub -
- cd path/to/google-sheets-clone
- git init
- git commit -m "Initial commit: Basic Google Sheets clone setup"
- git remote add origin https://github.com/vimlendusharma/google-sheets-clone.git
- git push -u origin main
- git status