Android Developer Code Challenge

The goal of this problem is to create a simple spreadsheet app that is capable of loading a single spreadsheet and saving data into it.

Your app **should** allow the user to:

- Open a single spreadsheet
- Render that spreadsheet
- Save edits into that spreadsheet
- Allow an “undo” functionality that steps back through every action made; it must undo any data typed into the cell or erased and any addition/deletion of columns and rows. [Bottom right of the image]
- Touching the cell should allow you to edit the cell’s content in the “Edit cell” editText as seen in the diagram. Any change in the cell data should show up live in the cell being edited.
- “Reload” functionality to reload the last saved content in the sheet. Any changes not saved must be removed on tapping reload
- At least two unit tests for any functionality.

Some things to keep in mind while you tackle this challenge:

- The spreadsheet cells may include both numbers and letters
- As you add more rows and columns, the sheet should be scrollable to show additional data.
- There is no upper limit on the rows and columns that can be added.

You **may** also implement these additional features for additional challenge:

- Formula cells
    - Similar to Excel: if you enter "=A1+B2*4" it should fill the cell with the computed value.
- “Clear” functionality to clear out all at the cells in the spreadsheet
- Buttons to add rows and columns
- Column headers like A, B, C… and row headers like 1, 2, 3…
- Any animations/transitions while working on the sheet. These can be at your discretion.

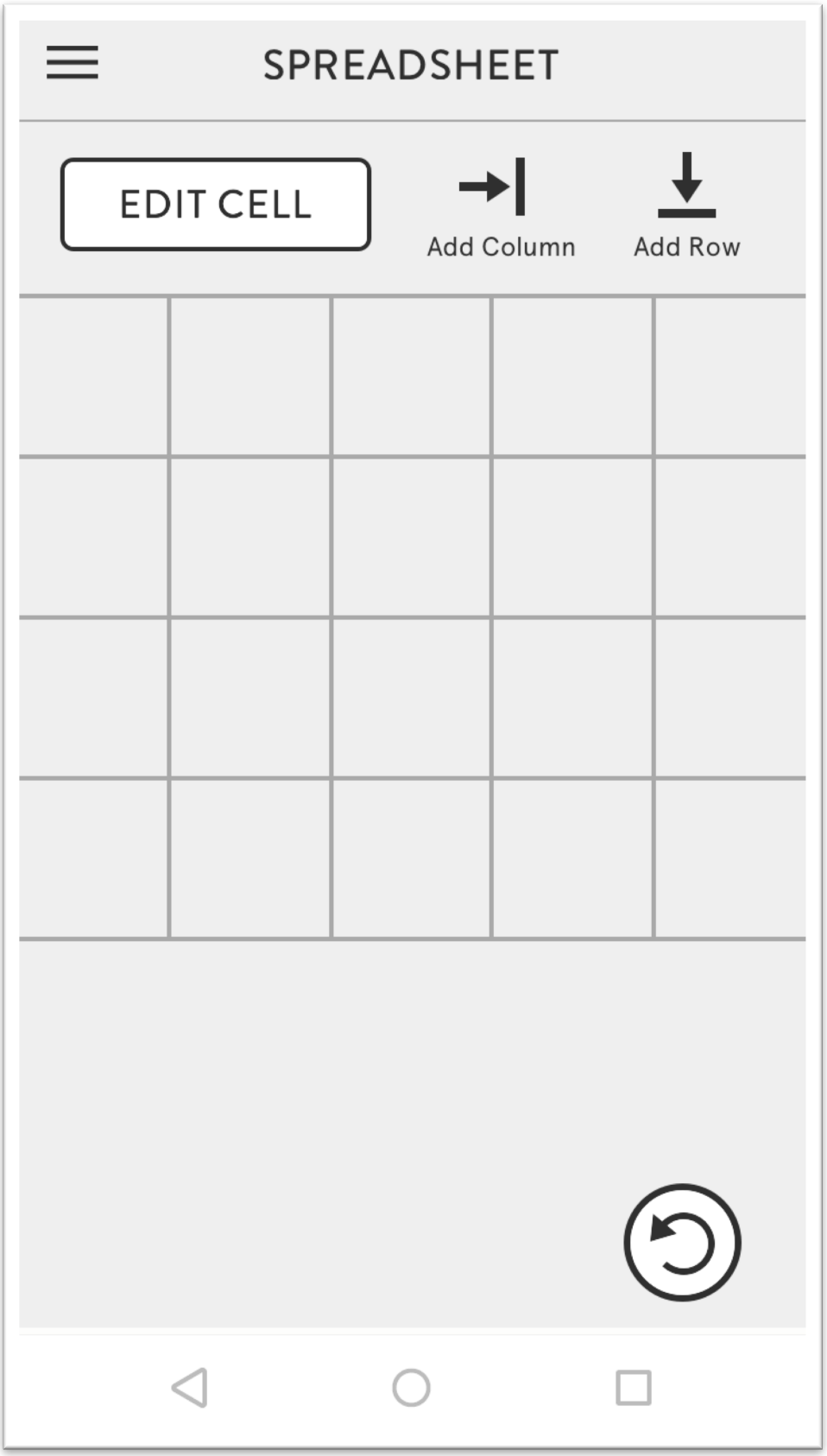
You may use the attached wireframe to design your UI. Please follow all Material design guidelines for the UI and implement material design components for Android wherever necessary.

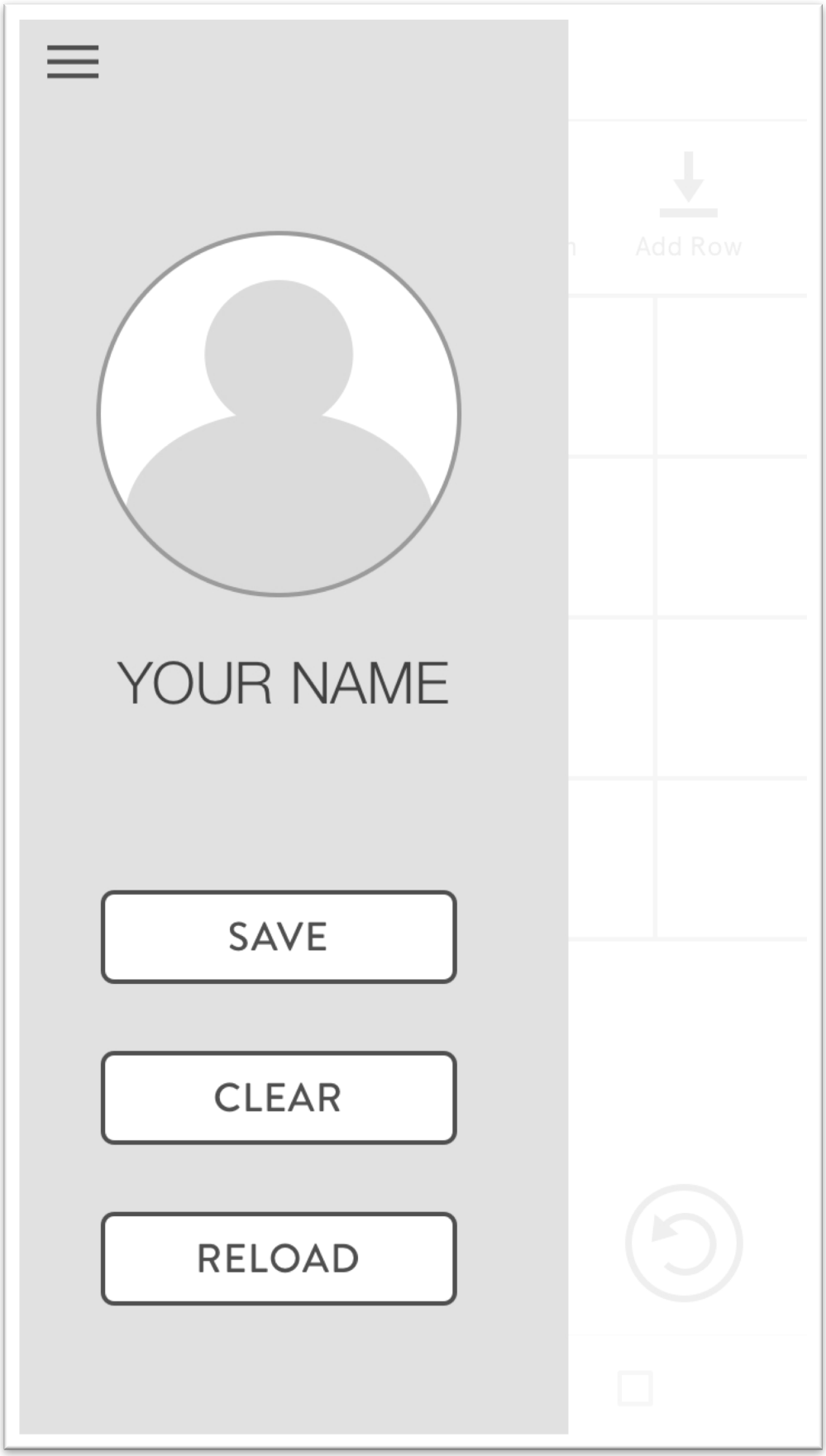
The app must be capable of retrieving the saved data after it is relaunched. You are free to use any model to save the data.

Your spreadsheet should support a minimum of 8 rows and 8 columns.

Submission Instructions

- Create a repo on your personal GitHub and send us the link
- Avoid putting everything in a single commit.
- Track the time you took to complete the project.
- Create your code in Java.


SPREADSHEET
EDIT CELL
Add Column
Add Row


Add Row
YOUR NAME
SAVE
CLEAR
RELOAD