# INITIAL DOMAIN MODEL PROJECT SPREADSHEET

First we are going to start defining **list of requirements.**

1. The spreadsheet has to contain cells.
2. The spreadsheet must be divided in rows and columns
3. The row is identified by a number and the column identified by a letter
4. A user has to be able to select a cell.
5. A cell has to provide basic info, column, row, content, result.
6. Store the information of each cell (the content not any result)
7. A cell can contain three types of data, basic type (numerical values), text values and formulas.
8. A cell has to display the result of an operation.
9. A cell has to store the content of the cell itself
10. There are 4 types of functions ( SUMA, MIN,MAX, PROMEDIO)

Once the list of requirements it is identified it is time to make the **textual analysis.**

1. **Take all the nouns that will be candidates for conceptual classes:**

* Spreadsheet
* Cell
* Row
* Number
* Column
* Letter
* User
* Info
* Content
* Result
* Data
* Basic
* Text
* Operation
* Function
* Formula

1. **DROP (Redundancy, vague concepts, names of attributes, name of operations, name of roles)**

* Row
* Number
* Column
* Letter
* Info
* Content
* Result
* Operation
* Function

Now it is time to make the **relationships** between the kept classes which are: User, Spreadsheet, Cell, Data, Basic, Text, and Formula

* A **user** uses **spreadsheet**
* A **cell** is inside a **spreadsheet**
* **Data** may be located in a **cell.**

**Data** is a generalization. **Basic, text and formula** are 3 types of **data.** An object **basic** is also an object **data** as well as the rest. **Basic** has the attributes that **data** has and appear in **basic**. Same for the rest of types of **data.**

**Domain model scheme:**

