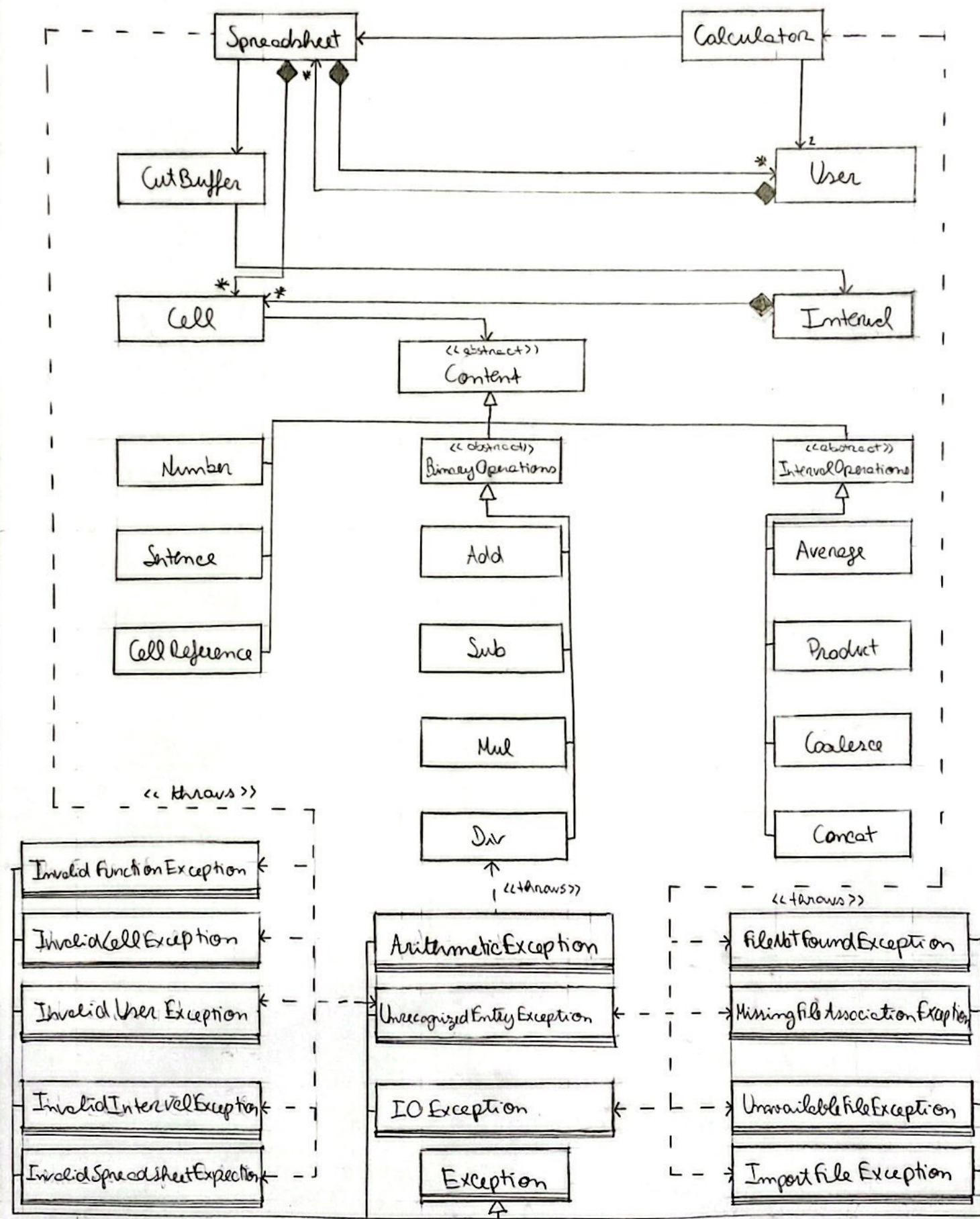


Declaro por minha honra que este diagrama foi realizado apenas pelos elementos do grupo Mariana Santana
 Beloro por minha honra que este diagrama foi realizado apenas pelos elementos do grupo João Lucas
 Grupo 052 : ist1106992 e ist1106227 UML XXL - CORTE



Spreadsheet

- << final >> users : Map < String, User >
- << final >> cells : Map < String, Cell >
- changed : boolean
- lines : int
- columns : int
- id : String
- cutBuffer : CutBuffer

- + insertContents (rangeSpecifications : String, contentSpecification) : void
- + initializeSpreadsheet (lines : int, columns : int) : void
- + findCell (address : String) : Cell
- + showCell (address : String) : void
- + showInterval (address1 : String, address2 : String) : void
- + createAddressInterval (address1 : String, address2 : String) : String []
- + createInterval (addresses : String []) : Interval
- + deleteCell (addressString) : void
- + searchValue (value : int) : void
- + searchValue (sentence : String) : void
- + searchFunction (function : String) : void
- + hasChanged () : void
- + checkChanged () : boolean
- + addUser (user : User) : void
- + removeUser (user : User) : void
- + clearSpreadsheet () : void
- + checkUser (user : User) : boolean

Calculator

- spreadsheet : Spreadsheet
- root : User
- currentUser : User
- filename : String
- number of Spreadsheets : int
- number of Users : int
- + save () : void
- + saveAs (filename : String) : void
- + load (filename : String) : void
- + importFile (filename : String) : void

Cut Buffer

- interval : Interval
- + copy (interval : Interval) : void
- + cut (interval : Interval) : void
- + paste (interval : Interval) : void
- + showCutBuffer (int : Interval) : void

Cell

- line : int
- column : int
- content : Content <?>
- address : String
- + checkWrittenContent (String) : void
- + checkWithOperation (String) : void
- + clearCell ()

Number

- result : int
- + parseInput (s : String) : void

Sentence

- result : String
- + parseInput (s : String) : void

User

- spreadsheets : Map < String, Spreadsheet >
- name : String
- id : String
- + checkSpreadsheet (idSheet : String) : boolean
- + addSpreadsheet (Sheet : Spreadsheet) : void

Interval

- interval : Map < String, Cell >
- address1 : String
- address2 : String
- + concat (int : Interval) : String
- + coalesce (int : Interval) : String
- + product (int : Interval) : int
- + average (int : Interval) : int
- + clear () : void

<<abstract>> Content

- typeContent : String
- + <<abstract>> parseInput (s : String) : void

<<abstract>> Binary Operations

- result : int
- + <<abstract>> compute (i1 : int, i2 : int) : int

<<abstract>> Interval Operations

- result : int
- result : String
- + <<abstract>> compute (i : Interval) : int
- + <<abstract>> compute (i : Interval) : String

Cell Reference

- result : int
- + parseInput (s : String) : void

Add

+ compute (i1: int, i2: int): int

Mul

+ compute (i1: int, i2: int): int

Average

+ compute (i: Interval): int

+ compute (i: Interval): String

Concat

+ compute (i: Interval): int

+ compute (i: Interval): String

Sub

+ compute (i1: int, i2: int): int

Div

+ compute (i1: int, i2: int): int

Product

+ compute (i: Interval): int

+ compute (i: Interval): String

Coalesce

+ compute (i: Interval): int

+ compute (i: Interval): String