**FINAL PROJECT**

Froebel International basic School, has 100 personal computers in its computer laboratory. The proprietor wants a standard calculator software to be developed for the personal computers.

The stakeholders of this project are:

* Learners (Pupils)
* Parents (Guardians)
* Teachers (Imparters)
* Proprietor (Owner)
* Government (Society)

The stakeholders want the calculator to come with four universal basic operational symbol buttons as “’+’, “-”, “\*” and “/”.

The Parent Teacher association (also stakeholders) wants three separate textboxes.

Two of the text boxes should take the input numeric values. The first textbox should store the first number in say “textField\_num1”. The second textbox should store the second number in say “textField\_num2”. The third textbox should output the answer for the operation performed.

It is a common aim of both the PTA and the Government, for learners to acquire the skill of using the keyboard and also performing basic operations on two numbers, for starters.

The owner insists that there should be a label that indicates “Message” and shows the following when a user clicks on it,

“You cannot divide by 0”

“Natural numbers are the counting numbers, eg: 1, 2, 3, 4……”

“Whole numbers are the counting numbers including 0, eg: 0, 1, 2, 3, 4, …

“Integers are positive and negative whole numbers, eg: …. ,-4, -3, -2, -1, 0, 1, 2, 3, 4,…”

There should be a label that indicates “Answer”, pointing to the answer text Field

Also the proprietor wants the calculator to appear in three parts:

* Header
* Middle
* Bottom

**Header**

The label “FROEBEL INTERNATIONAL BASIC PUPILS CALCULATOR” should appear at the topmost.

The button that indicates “Message”, should appear right beneath the topmost label and at the top left corner and shows the following;

“You cannot divide by 0”

“Natural numbers are the counting numbers, eg: 1, 2, 3, 4……”

“Whole numbers are the counting numbers including 0, eg: 0, 1, 2, 3, 4, ….

“Integers are positive and negative whole numbers, eg.-4, -3, -2, -1, 0, 1, 2, 3, 4,…

when a user clicks on the message button.

The two numeric text fields comes or appears on the right side of the message button. The first text field on the left and the second text field on the right.

Middle

The four operational buttons beneath the message button and the numeric text fields.

Bottom

The label that indicates “Answer” appears on the left hand side with the Answer text field showing on the right hand side.

The stakeholders agreed that users’ login to the calculator to give them a feel of the use of username and password.

The owner of this project is looking at a simple standard calculator which is cost effective with optimum customer satisfaction The proprietor has the intension of redistributing the calculator to other Schools on commercial grounds. He would be looking at other modifications and versions that would build on this initial one.

REQUIREMENT SPECIFICATION DOCUMENT

FOR

FROEBEL BASIC SCHOOL CALCULATOR

**Header**

“FROEBEL INTERNATIONAL BASIC PUPILS CALCULATOR” should appear at the topmost.

The School’s logo should appear at the top right corner beneath the heading.

The label that shows “Please Enter Valid numbers” should appear on the top left corner right beneath the heading.

The two numeric textboxes comes or appears under the School’s logo. The first textbox on the left and the second textbox on the right.

Middle

The four operational buttons beneath the message button and the numeric text fields.

Bottom

The label that indicates “Answer” appears on the left hand side with the Answer text field showing on the right hand side.