



PO1_DGC Calculator

SRS

Draft

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Contents

List of Tables	iii
1 Project History	1
2 Introduction	2
3 Requirements	3
4 SRS Table	4

List of Tables

1.1	Project History Table	1
3.1	Requirements Table	3
4.1	SRS Table	4

Chapter 1

Project History

TABLE 1.1: Project History Table

Version	Author	Date	Change
v1.0	Mina Yousry and Bishoy Nabil	24/1/2020	Initial Creation
v1.1	Moamen Ahmed	26/1/2020	Improved formating

Chapter 2

Introduction

The purpose of this project is to make a functional calculator that supports basic mathematical operations(+, -, *, /).

The purpose of this document is to provide a detailed description of the calculator and how it operates as well as its requirements and test cases.

Chapter 3

Requirements

TABLE 3.1: Requirements Table

Requirement Name	Requirement description
Req_PO1_DGC_SRS_001_v1.0	Software shall assign a number (0-9) or operation(+,-,*,/,=) to each key on the keypad.
Req_PO1_DGC_SRS_002_v1.0	Software shall display a number (0-9) when its corresponding key is pressed.
Req_PO1_DGC_SRS_003_v1.0	Software shall display an operation(+,-,*,/) on the display when its corresponding key is pressed.
Req_PO1_DGC_SRS_004_v1.0	Software shall indicate a positive or a negative number by adding (+,-) before entering a number or operation.
Req_PO1_DGC_SRS_005_v1.0	Software shall not allow entering (* or /) without a number before it or another operation.
Req_PO1_DGC_SRS_006_v1.0	Software shall not allow (=) if there is an operation and no second operand.
Req_PO1_DGC_SRS_007_v1.0	Software shall display the first operand as a result if there is no operation entered.
Req_PO1_DGC_SRS_008_v1.0	Software shall display the result of a valid operation on the display when the assignment (=) key is pressed.
Req_PO1_DGC_SRS_009_v1.0	Software shall not allow division by zero.
Req_PO1_DGC_SRS_0010_v1.0	Software shall play a different tune for each button when pressed.

Chapter 4

SRS Table

TABLE 4.1: SRS Table

Requirement ID	Covers	Inputs	Outputs
Req_PO1_DGC_SRS_001_v1.0	Req_PO1_DGC_CYRS_002_v1.0	Keypad	LCD
Req_PO1_DGC_SRS_002_v1.0	Req_PO1_DGC_CYRS_003_v1.0	Keypad	LCD
Req_PO1_DGC_SRS_003_v1.0	Req_PO1_DGC_CYRS_004_v1.0	Keypad	LCD
Req_PO1_DGC_SRS_004_v1.0	Req_PO1_DGC_CYRS_005_v1.0	Keypad	LCD
Req_PO1_DGC_SRS_005_v1.0	Req_PO1_DGC_CYRS_005_v1.0	Keypad	-
Req_PO1_DGC_SRS_006_v1.0	Req_PO1_DGC_CYRS_006_v1.1	Keypad	-
Req_PO1_DGC_SRS_007_v1.0	Req_PO1_DGC_CYRS_006_v1.1	Keypad	LCD
Req_PO1_DGC_SRS_008_v1.0	Req_PO1_DGC_CYRS_006_v1.1	Keypad	LCD
Req_PO1_DGC_SRS_009_v1.0	Req_PO1_DGC_CYRS_006_v1.1	Keypad	-
Req_PO1_DGC_SRS_0010_v1.0	Req_PO1_DGC_CYRS_007_v1.0	Keypad	Buzzer