

**INTERNATIONAL SCHOOL**

**CAPSTONE PROJECT 1**

**CMU-CS 246**

**USER INTERFACE DESIGN DOCUMENT**

Version: 1.1

**CALCULATOR SYSTEM – CS**

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**PROJECT INFORMATION**

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| **Project Acronym** | CS |
| **Project Title** | Calculator System | | | |
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**PROJECT PLAN DOCUMENT**

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**SIGNATURE**

**Document Approvals:** The following signatures are required for approval of this document.

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**DOCUMENT HISTORY**

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| 1.0 | Hoang Dinh Khanh | Jan 23th, 2024 | Draft |
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# INTRODUCTION

## PURPOSE

* Document the design of user interface of functions of the Calculator System
* Be the primary document driving the implementation of the user interfaces.
* Introduce interface design for the reader. Including the background, content information display, command buttons.

## SCOPE

* This document helps to better understand the interface of the System, detailed specification components and function of the System.
* With this document, the development team can understand the structure and composition to create a consistent and complete system.
* Overview of the stages and modules of the software and create a complete interface.

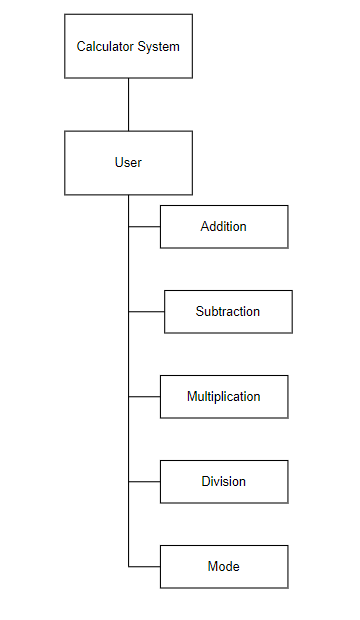
## SCOPE

This document is intended for the following audiences:

* Technical reviewers including:
* Project Manager
* Product owner
* Implementers, including:
  + Developers.
  + Testers.

# LIST OF USER INTERFACE

## BUSINESS FUNCTION DIAGRAM:



*Figure 1: Business Function diagram*

## WEB APP:

|  |  |  |
| --- | --- | --- |
| **User Interface ID** | **UI Name** | **Description** |
| UI-01 | Home Page | Home page allows users to select the calculation they want to perform |
| UI-02 | Addition Page | This page is for user to perform addition calculations |
| UI-03 | Subtraction Page | This page is for user to perform subtraction calculations |
| UI-04 | Multiplication Page | This page is for user to perform multiplication calculations |
| UI-05 | Division Page | This page is for user to perform division calculations |
| UI-06 | Mode Page | This page is for user to perform mode calculations |

*Table 1: List of Interface*

# DESCRIBE USER INTERFACE

## HOME PAGE

A screenshot of a calculator

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Condition** | **Control Type** | **Target** |
| 1 |  | Lable | Addition |
| 2 |  | Lable | Subtraction |
| 3 |  | Lable | Multiplication |
| 4 |  | Lable | Division |
| 5 |  | Lable | Mode |
| 6 | Press | Button | Click to go to the Addition page |
| 7 | Press | Button | Click to go to the Subtraction page |
| 8 | Press | Button | Click to go to the Multiplication page |
| 9 | Press | Button | Click to go to the Division page |
| 10 | Press | Button | Click to go to the Mode page |

*Table 2: Describe User Interface Homepage*

## ADDITION PAGE

1. A screenshot of a computer login

   Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Condition** | **Control Type** | **Target** |
| 1 |  | Lable | Enter A |
| 2 |  | Lable | Enter B |
| 3 |  | Lable | Result |
| 4 | Enter a number | Text field | Gets the value of a number used for calculation |
| 5 | Enter a number | Text field | Gets the value of a number used for calculation |
| 6 |  | Lable | Displays the results of the calculation |
| 7 | Press | Button | Click to view the results of the addition calculation |
| 8 | Press | Button | Click to reset all text fields |
| 9 | Press | Button | Click to returns to homepage |

*Table 3 : Describe User Interface Addition page*

## SUBTRACTION PAGE

A screenshot of a login form

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Condition** | **Control Type** | **Target** |
| 1 |  | Lable | Enter A |
| 2 |  | Lable | Enter B |
| 3 |  | Lable | Result |
| 4 | Enter a number | Text field | Gets the value of a number used for calculation |
| 5 | Enter a number | Text field | Gets the value of a number used for calculation |
| 6 |  | Lable | Displays the results of the calculation |
| 7 | Press | Button | Click to view the results of the subtraction calculation |
| 8 | Press | Button | Click to reset all text fields |
| 9 | Press | Button | Click to returns to homepage |

*Table 4 : Describe User Interface Subtraction page*

## MULTIPLICATION PAGE

A screenshot of a math application

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|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Condition** | **Control Type** | **Target** |
| 1 |  | Lable | Enter A |
| 2 |  | Lable | Enter B |
| 3 |  | Lable | Result |
| 4 | Enter a number | Text field | Gets the value of a number used for calculation |
| 5 | Enter a number | Text field | Gets the value of a number used for calculation |
| 6 |  | Lable | Displays the results of the calculation |
| 7 | Press | Button | Click to view the results of the calculation |
| 8 | Press | Button | Click to reset all text fields |
| 9 | Press | Button | Click to returns to homepage |

*Table 5 : Describe User Interface Multiplication page*

## DIVISION PAGE

A screenshot of a computer

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Condition** | **Control Type** | **Target** |
| 1 |  | Lable | Enter A |
| 2 |  | Lable | Enter B |
| 3 |  | Lable | Result |
| 4 | Enter a number | Text field | Gets the value of a number used for calculation |
| 5 | Enter a number | Text field | Gets the value of a number used for calculation |
| 6 |  | Lable | Displays the results of the calculation |
| 7 | Press | Button | Click to view the results of the calculation |
| 8 | Press | Button | Click to reset all text fields |
| 9 | Press | Button | Click to returns to homepage |

*Table 6 : Describe User Interface Division page*

## MOD PAGE

A screenshot of a computer

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Condition** | **Control Type** | **Target** |
| 1 |  | Lable | Enter A |
| 2 |  | Lable | Enter B |
| 3 |  | Lable | Result |
| 4 | Enter a number | Text field | Gets the value of a number used for calculation |
| 5 | Enter a number | Text field | Gets the value of a number used for calculation |
| 6 |  | Lable | Displays the results of the calculation |
| 7 | Press | Button | Click to view the results of the calculation |
| 8 | Press | Button | Click to reset all text fields |
| 9 | Press | Button | Click to returns to homepage |

*Table 7 : Describe User Interface Mod page*