

**INTERNATIONAL SCHOOL**

**CAPSTONE PROJECT 1**

**CMU-CS 246 FIS**

**PROJECT PLAN DOCUMENT**

Version: 1.1

**CALCULATOR SYSTEM – CS**

**Mentor: Nguyen Dang Quang Huy**

***Team Member*:**

Lap, Doan Quoc

Tuan, Nguyen Ho Minh

Phuc, Dinh Van

Minh, Tran Quoc

Minh, Nguyen Hong

**Approved by Huy Nguyen Dang Quang**

**Project Plan Review Panel Representative:**

Name Signature Date

**Capstone Project 1- Mentor:**

Name Signature Date

Da Nang, 01/2024

**PROJECT INFORMATION**

| **Project Acronym** | CS |
| --- | --- |
| **Project Title** | Calculator System | | | |
| **Start Date** | 22 – Jan –2024 | **End Date** | 29 – Jan –2024 | |
| **Lead Institution** | International School, Duy Tan University | | | |
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**PROJECT PLAN DOCUMENT**

| **Document Title** | Project Plan Document | | |
| --- | --- | --- | --- |
| **Author(s)** | CMU-CS 246 FIS Team 7 | | |
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| **Access** | Project and CMU Program | | |

**SIGNATURE**

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

| **Mentor** | Nguyen Huy, Dang Quang | **Signature:** |
| --- | --- | --- |
| **Date:** |
| **Scrum master** | Minh, Tran Quoc | **Signature: Minh** |
| **Date: 29-Jan-2024** |
| **Product**  **Owner** | Lap, Tran Quoc | **Signature:** |
| **Date: 29-Jan-2024** |
| **Team member(s)** | Phuc, Dinh Van | **Signature:** |
| **Date: 29-Jan-2024** |
| Tuan, Nguyen Ho Minh | **Signature:** |
| **Date: 29-Jan-2024** |
| Minh, Nguyen Hong | **Signature:** |
| **Date: 29-Jan-2024** |

**REVISION HISTORY**

| **Version** | **Person(s)** | **Date** | **Description** |
| --- | --- | --- | --- |
| **1.0** | All members | Jun 27th, 2024 | Draf |
| **1.1** | Minh, Tran Quoc | Jun 28th, 2024 | Final |

# **1. PROJECT DESCRIPTION**

| **Project code** | CS | **Contract type** | Internal Project |
| --- | --- | --- | --- |
| **Customer** | N/A | **End-user** | Students, Accountants |
| **Project type** | Internal | **Project Manager/**  **Scrum Master** | Minh, Tran Quoc |
| **Project category** | calculate | **Business Domain** |  |
| **Application type** | Desktop Application |  |  |

***Table 1:*** *Project Description*

A **software calculator** is a [calculator](https://en.wikipedia.org/wiki/Calculator) that has been implemented as a [computer program](https://en.wikipedia.org/wiki/Computer_program), rather than as a physical hardware device.

They are among the simpler [interactive software](https://en.wikipedia.org/wiki/Interactive_computing) tools, and, as such, they provide operations for the user to select one at a time. They can be used to perform any process that consists of a sequence of steps each of which applies one of these operations, and have no purpose other than these processes, because the operations are the sole, or at least the primary, features of the calculator, rather than being secondary features that support other functionality that is not normally known simply as calculation.

As a calculator, rather than a [computer](https://en.wikipedia.org/wiki/Computer), they usually have a small set of relatively simple operations, perform short processes that are not compute intensive and do not accept large amounts of input data or produce many results.

## **2. DETAILED SCHEDULE**

| **No.** | **Task Name** | **Duration (Days)** | **Start** | **Finish** | **Assign to** |
| --- | --- | --- | --- | --- | --- |
| **1** | **Initial** | **12** | **23/01/2024** | **24/01/2024** | **All Members** |
| 1.1 | Project Kick-off Meeting | 1 | 23/01/2024 | 23/01/2024 | All Members |
| 1.2 | Discuss about project ideal | 1 | 23/01/2024 | 23/01/2024 | All Members |
| 1.3 | Create Proposal Document | 1 | 23/01/2024 | 23/01/2024 | All Members |
| 1.4 | Create Project Plan Document | 1 | 23/01/2024 | 23/01/2024 | Quoc Minh |
| 1.6 | Create User Story | 1 | 23/01/2024 | 23/01/2024 | Phuc |
| 1.7 | Review Document | 1 | 24/01/2024 | 24/01/2024 | Quoc Minh |
| 1.8 | List of Use case | 1 | 23/01/2024 | 23/01/2024 | Phuc |
| 1.9 | Context Diagram | 1 | 23/01/2024 | 23/01/2024 | Phuc,  Quoc Minh |
| 1.10 | Use case Specification | 1 | 23/01/2024 | 23/01/2024 | Quoc Lap |
| 1.11 | Activity Diagram | 1 | 23/01/2024 | 23/01/2024 | Quoc Lap |
| 1.12 | BFD | 1 | 23/01/2024 | 23/01/2024 | Lap |
| 1.13 | FR | 1 | 23/01/2024 | 23/01/2024 | Hong Minh |
| **2** | **Development** | **16** | **23/1/2024** | **28/1/2024** | **All Members** |
| 22.1 | Start phase | 1 | 23/1/2024 | 23/1/2024 | Quoc Minh |
| 2.1.1.1 | Planning Meeting | 1 | 23/1/2024 | 23/1/2024 | All Members |
| 2.3 | Create User Interface | 1 | 25/01/2024 | 25/01/2024 | Lap,Minh tuan, Quoc Minh |
| 2.4 | Create Test plan document | 1 | 25/01/2024 | 25/01/2024 | Quoc Minh,Dinh Van Phuc |
| 2.5 | Design UI for TextField | 1 | 25/01/2024 | 25/01/2024 | Quoc Minh |
| 2.6 | Design UI for Button | 1 | 25/01/2024 | 25/01/2024 | Quoc Minh |
| 2.7 | Design UI for Window | 1 | 26/01/2024 | 26/01/2024 | Quoc Minh |
| 2.8 | Design UI for Dialog | 1 | 26/01/2024 | 26/01/2024 | Quoc Minh |
| 2.9 | Logic for Plus | 1 | 25/01/2024 | 25/01/2024 | Minh Tuan |
| 2.10 | Logic for Substraction | 1 | 25/01/2024 | 25/01/2024 | Van Phuc |
| 2.11 | Logic for Multi | 1 | 25/01/2024 | 25/01/2024 | Quoc Lap |
| 2.12 | Logic for Divide | 1 | 25/01/2024 | 25/01/2024 | Hong Minh |
| 2.13 | Logic for Divide Remainder | 1 | 25/01/2024 | 25/01/2024 | Quoc Minh |
| 2.14 | Logic for Ac Reset | 1 | 25/01/2024 | 25/01/2024 | Quoc Minh |
| 2.15 | Testing Phase | 1 | 26/01/2024 | 26/01/2024 | Quoc Lap,  Quoc Minh,  Hong Minh |
| 2.16 | Review Prototype | 1 | 27/01/2024 | 27/01/2024 | Quoc Minh,  Quoc Lap |
| 3 | **Close Project** | 8 | 24/1/2024 | 28/1/2024 | All Members |
| 3.1 | Plus | 1 | 25/1/2024 | 25/1/2024 | Minh Tuan |
| 3.2 | Substration | 1 | 25/1/2024 | 25/1/2024 | Van Phuc |
| 3.3 | Multi | 1 | 25/1/2024 | 25/1/2024 | Quoc Lap |
| 3.4 | Divide | 1 | 25/1/2024 | 25/1/2024 | Hong Minh |
| 3.5 | Divide Remainder | 1 | 25/1/2024 | 25/1/2024 | Quoc Minh |
| 3.6 | Testing Function code | 1 | 25/1/2024 | 25/1/2024 | Quoc Minh |
| 3.7 | UI | 1 | 26/1/2024 | 26/1/2024 | Quoc Minh |
| 3.8 | UI Test | 1 | 26/1/2024 | 26/1/2024 | Quoc Minh, Quoc Lap,  Hong Minh |
| **3.9** | **UI Fix** | **1** | **28/1/2024** | **28/1/2024** | **Quoc Minh** |
| **4** | **Close Project** | **2** | **23/1/2024** | **28/1/2024** | **Quoc Minh** |
| 4.1 | Release Project | 1 | 28/1/2024 | 28/1/2024 | Quoc Minh |
| 4.2 | **Final Submission** | **1** | **28/1/2024** | **28/1/2024** | **Quoc Minh** |

**3. REFERENCES**

1. https://en.wikipedia.org/wiki/Software\_calculator