

**INTERNATIONAL SCHOOL**

**CAPSTONE PROJECT 1**

**CMU-CS 246 HIS**

**PROJECT PLAN DOCUMENT**

Version: 1.1

**E-CALCULATOR APPLICATION – ECA**

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**Project Plan Review Panel Representative:**

Name Signature Date

**Capstone Project 1- Mentor:**

Name Signature Date

Da Nang, 01/2024

**PROJECT INFORMATION**

| **Project Acronym** | ECA |
| --- | --- |
| **Project Title** | E – Calculator Application | | | |
| **Start Date** | Jan 25th, 2024 | **End Date** | Feb 22th, 2024 | |
| **Lead Institution** | International School, Duy Tan University | | | |
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**PROJECT PLAN DOCUMENT**

| **Document Title** | Project Plan Document | | |
| --- | --- | --- | --- |
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**SIGNATURE**

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

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| **Date:** |  |

**REVISION HISTORY**

| **Version** | **Person(s)** | **Date** | **Description** |
| --- | --- | --- | --- |
| **1.0** | All members | Jan 26th, 2024 | Draft |
| **1.1** | Quy, Tran | Jan 28th, 2024 | Final |

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# 1. PROJECT DESCRIPTION

| **Project code** | ECA | **Contract type** | Internal Project |
| --- | --- | --- | --- |
| **Customer** | N/A | **End-user** | User |
| **Project type** | Internal | **Project Manager** | Quy, Tran |
| **Project category** | Electronic Calculator | **Business Domain** | Tools |
| **Application type** | Winform Application |  |  |

## *Table 1: Project Description*

E - Calculator Application is a software program designed to perform a specific task. Electronic calculator applications can run on many different types of electronic devices, including computers, tablets, smartphones, and others.

E - Calculator Application is a technology solution that helps users perform calculations "+", "-", "\*", "/" and "%" more easily in calculation.

# 2. DETAILED SCHEDULE

| **No.** | **Task Name** | **Duration (Days)** | **Start** | **Finish** | **Assign to** |
| --- | --- | --- | --- | --- | --- |
| **1** | **Initial** | **5** | **26/01/2024** | **31/01/2024** | **Quy, Tuan, Huy, Duong, Thuyen** |
| 1.1 | Project Kick-off Meeting | 1 day | 26/01/2024 | 26/01/2024 | Quy, Tuan, Huy, Duong, Thuyen |
| 1.2 | Discuss about project ideal | 1 day | 26/01/2024 | 26/01/2024 | Quy, Tuan, Huy, Duong, Thuyen |
| 1.3 | Create Defined Process Document | 1 day | 28/01/2024 | 28/01/2024 | Quy |
| 1.4 | Create Project Plan Document | 1 days | 28/01/2024 | 28/01/2024 | Quy |
| 1.5 | Create Software Requirement Specification Document | 2 days | 28/01/2024 | 29/01/2024 | Huy |
| 1.6 | Create User Interface Design Document | 2 days | 29/01/2024 | 30/01/2024 | Duong |
| 1.7 | Review Document | 1 day | 31/01/2024 | 31/01/2024 | Quy, Tuan, Huy, Duong, Thuyen |
| **2** | **Design** | **5** | **01/02/2024** | **05/02/2024** | **Tuan, Duong** |
| 2.1 | [Front-end] Design UI for the Background | 1 | 01/02/2024 | 01/02/2024 | Tuan |
| 2.2 | [Front-end] Design UI for the Function Menu Bar | 1 | 01/02/2024 | 01/02/2024 | Tuan |
| 2.3 | [Front-end] Design UI for the Addiction Function | 1 | 02/02/2024 | 02/02/2024 | Duong |
| 2.4 | [Front-end] Design UI for the Subtraction Function | 1 | 02/02/2024 | 02/02/2024 | Duong |
| 2.5 | [Front-end] Design UI for the Multiplication Function | 1 | 03/02/2024 | 03/02/2024 | Duong |
| 2.6 | [Front-end] Design UI for the Division Function | 1 | 03/02/2024 | 03/02/2024 | Duong |
| 2.7 | [Front-end] Design UI for the Modulus Function | 1 | 04/02/2024 | 04/02/2024 | Duong |
| 2.8 | [Front-end] Design UI for the Calculate Function | 1 | 05/02/2024 | 05/02/2024 | Tuan |
| 2.9 | [Front-end] Design UI for the Clear Function | 1 | 05/02/2024 | 05/02/2024 | Tuan |
| 2.1.0 | [Front-end] Design UI for the Error Reporting Function | 1 | 05/02/2024 | 05/02/2024 | Tuan |
| **3** | **Coding** | **9** | **06/02/2024** | **14/02/2024** | **Thuyen, Huy** |
| 3.1 | [Back-end] Function Menu Bar | 1 | 06/02/2024 | 06/02/2024 | Thuyen |
| 3.2 | [Back-end] Addiction Function | 1 | 06/02/2024 | 06/02/2024 | Huy |
| 3.3 | [Back-end] Subtraction Function | 1 | 07/02/2024 | 07/02/2024 | Huy |
| 3.4 | [Back-end] Multiplication Function | 1 | 08/02/2024 | 08/02/2024 | Huy |
| 3.5 | [Back-end] Division Function | 1 | 09/02/2024 | 09/02/2024 | Huy |
| 3.6 | [Back-end] Modulus Function | 1 | 10/02/2024 | 10/02/2024 | Huy |
| 3.7 | [Back-end] Calculate Function | 2 | 11/02/2024 | 12/02/2024 | Thuyen |
| 3.8 | [Back-end] Clear Function | 2 | 13/02/2024 | 14/02/2024 | Thuyen |
| 3.9 | [Back-end] Error Reporting Function | 1 | 14/02/2024 | 14/02/2024 | Thuyen |
| **4** | **Testing** | **5** | **15/02/2024** | **19/02/2024** | **Quy, Thuyen** |
| 4.1 | Create Test Case Document | 2 | 15/02/2024 | 16/02/2024 | Quy |
| 4.2 | [Use Test Case Docs] Addiction Function | 1 | 16/02/2024 | 16/02/2024 | Quy |
| 4.3 | [Use Test Case Docs] Subtraction Function | 1 | 17/02/2024 | 17/02/2024 | Quy |
| 4.4 | [Use Test Case Docs] Multiplication Function | 1 | 17/02/2024 | 17/02/2024 | Thuyen |
| 4.5 | [Use Test Case Docs] Division Function | 1 | 18/02/2024 | 18/02/2024 | Thuyen |
| 4.6 | [Use Test Case Docs] Modulus Function | 1 | 18/02/2024 | 18/02/2024 | Thuyen |
| 4.7 | [Use Test Case Docs] Clear Function | 1 | 19/02/2024 | 19/02/2024 | Thuyen |
| **5** | **Close Project** | **3** | **20/02/2024** | **22/02/2024** | **Quy, Tuan, Huy, Duong, Thuyen** |
| 5.1 | Release | 1 | 20/02/2024 | 20/02/2024 | Quy, Tuan, Huy, Duong, Thuyen |
| 5.2 | Project Meeting | 1 | 21/02/2024 | 21/02/2024 | Quy, Tuan, Huy, Duong, Thuyen |
| 5.3 | Final Submission | 1 | 22/02/2024 | 22/02/2024 | Quy, Tuan, Huy, Duong, Thuyen |
| **Duration** | | **27** | **26/01/2024** | **22/02/2024** | **Quy, Tuan, Huy, Duong, Thuyen** |

## *Table 2: Detail Schedule*

# 3. REFERENCES

1. <https://www.atlassian.com/agile/project-management/waterfall-methodology>
2. <https://www.techtarget.com/searchsoftwarequality/definition/waterfall-model>
3. <https://magenest.com/vi/quan-ly-du-an-phan-mem/>
4. <https://tigosoftware.com/index.php/vi/tong-quan-ve-cac-phuong-phap-estimation-du-phan-mem>