

**INTERNATIONAL SCHOOL**

**PROCESS**

**CMU-CS 246 BIS**

**PROJECT PLAN DOCUMENT**

Version: 2.0

**CALCULATOR SYSTEM – CS**

**Mentor: Nguyen Dang Quang Huy**

***Team Member*:**

Nghia, Bui Thanh

Hieu, Tran Quang

Huy, Huynh Duc

Kien, Nguyen Trung

Cuong, Vo Hung

**Approved by Huy Nguyen Dang Quang**

Da Nang, 01/2024

**PROJECT INFORMATION**

|  |  |
| --- | --- |
| **Project Acronym** | CS |
| **Project Title** | Calculator System | | | | |
| **Start Date** | Jan 20, 2024 | **End Date** | | Mar 02, 2024 | |
| **Lead Institution** | International School, Duy Tan University | | | | |
| **Team Member** | **Name** | | **Email** | | **Phone** |
| 28211152203 | Bui Thanh Nghia | | btn199919@gmail.com | | 0386956815 |
| 28211131430 | Vo Hung Cuong | | cuong2432004@gmail.com | | 0384192943 |
| 28211103449 | Huynh Duc Huy | | huynhduchuy47@gmail.com | | 0918300585 |
| 28211105375 | Tran Quang Hieu | | tranquanghieunvl.2018@gmail.com | | 0799348542 |
| 28211102685 | Nguyen Trung Kien | | kiennguyentrung133@gmail.com | | 0366505782 |

**PROJECT PLAN DOCUMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Title** | Project Plan Document | | |
| **Author(s)** | Team 2 | | |
| **Date** | Jan 21st, 2024 | **File name:** | CMU\_CS 246 BIS\_ProjectPlan\_Team2\_v1.1.docx |
| **URL** | https://drive.google.com/drive/u/0/folders/1BecC4xZvzUyE8qXHENyJWhkGs7q0wn02 | | |
| **Access** | Process | | |

**SIGNATURE**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Mentor** | Huy, Nguyen Dang Quang | **Signature:** |  |
| **Date:** |  |
| **Project manager** | Nghia, Bui Thanh | **Signature:** |  |
| **Date:** |  |
| **Team member(s)** | Cuong, Vo Hung | **Signature:** |  |
| **Date:** |  |
| Huy, Huynh Duc | **Signature:** |  |
| **Date:** |  |
| Hieu, Tran Quang | **Signature:** |  |
| **Date:** |  |
| Kien, Nguyen Trung | **Signature:** |  |
| **Date:** |  |

**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Person(s)** | **Date** | **Description** |
| **1.0** | All members | Jan 21st, 2024 | Draf |
| **1.1** | Nghia, Bui Thanh | Jan 25nd, 2024 | Final |
| **2.0** | Nghia, Bui Thanh | Feb 29th, 2024 | Update |

**TABLE OF CONTENTS**

[1. PROJECT DESCRIPTION 7](#_Toc157072355)

[2. DETAILED SCHEDULE 7](#_Toc157072356)

**TABLES**

[Table 1: Project Description 7](#_Toc157072788)

[Table 2: Detailed Schedule 14](#_Toc157072789)

# 1. PROJECT DESCRIPTION

|  |  |  |  |
| --- | --- | --- | --- |
| **Project code** | CS | **Contract type** | Internal Project |
| **Customer** | N/A | **End-user** | Staff |
| **Project type** | Internal | **Project Manager** | Nghia, Bui Thanh |
| **Project category** | calculator | **Business Domain** | Software |
| **Application type** | Java Swing Application |  |  |

Table 1: Project Description

The Calculation System is a versatile and user-friendly software designed for a wide range of computational tasks. Similar to a calculator, it offers efficient and accurate solutions for numerical calculations across various domains. Whether you're dealing with complex equations, financial calculations, or data analysis, the Calculation System provides a reliable platform to perform computations with ease. Its intuitive interface and robust functionality make it an essential tool for professionals and individuals seeking precision in their mathematical and analytical processes.

# 2. **DETAILED SCHEDULE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Task Name** | **Duration (Days)** | **Start** | **Finish** | **Assign to** |
| **1** | **Intitial** | **5 day** | **20/01/2024** | **24/01/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 1.1 | Make Defined Process Document | 1 day | 20/01/2024 | 20/01/2024 | Nghĩa |
| 1.2 | Make Project Plan Document | 2 days | 21/01/2024 | 22/01/2024 | Nghĩa |
| 1.3 | Requirement Definition | 1 day | 22/01/2024 | 22/01/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 1.3.1 | Write Use-Case Specification for the Addition fuction | 1 day | 22/01/2024 | 22/01/2024 | Kiên |
| 1.3.2 | Write Use-Case Specification for the Subtraction fuction | 1 day | 22/01/2024 | 22/01/2024 | Hiếu |
| 1.3.3 | Write Use-Case Specification for the Multiplication fuction | 1 day | 22/01/2024 | 22/01/2024 | Huy |
| 1.3.4 | Write Use-Case Specification for the Division fuction | 1 day | 22/01/2024 | 22/01/2024 | Cường |
| 1.3.5 | Write Use-Case Specification for the Division with Remainder fuction | 1 day | 22/01/2024 | 22/01/2024 | Nghĩa |
| 1.3.6 | Summary of Use-Case Specifications | 1 day | 22/01/2024 | 22/01/2024 | Nghĩa |
| 1.4 | Make SRS Document | 2 days | 23/01/2024 | 24/01/2024 | Hiếu, Huy |
| 1.4.1 | Create Document for Section 1, 2.1, 2.2, 2.3 | 2 days | 23/01/2024 | 24/01/2024 | Huy |
| 1.4.2 | Create Document for Section 2.4 | 2 days | 23/01/2024 | 24/01/2024 | Hiếu |
| 1.5 | Review SRS Document | 1 day | 24/01/2024 | 24/01/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| **2** | **Design** | **2 days** | **24/01/2024** | **25/01/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 2.1 | Design UI for functions | 1 day | 24/01/2024 | 24/01/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 2.1.1 | Design UI for the Menu | 1 day | 24/01/2024 | 24/01/2024 | Nghĩa |
| 2.1.2 | Design UI for the Addition | 1 day | 24/01/2024 | 24/01/2024 | Kiên |
| 2.1.3 | Design UI for the Subtraction | 1 day | 24/01/2024 | 24/01/2024 | Hiếu |
| 2.1.4 | Design UI for the Multiplication | 1 day | 24/01/2024 | 24/01/2024 | Huy |
| 2.1.5 | Design UI for the Division | 1 day | 24/01/2024 | 24/01/2024 | Cường |
| 2.1.6 | Design UI for the Division with Remainder | 1 day | 24/01/2024 | 24/01/2024 | Nghĩa |
| 2.2 | Make UI Document | 1 day | 25/01/2024 | 25/01/2024 | Kiên, Cường |
| 2.2.1 | Create UI Document for Section I, II | 1 day | 25/01/2024 | 25/01/2024 | Kiên |
| 2.2.2 | Create UI Document for Section III | 1 day | 25/01/2024 | 25/01/2024 | Cường |
| 2.2.3 | Review UI Document | 1 day | 25/01/2024 | 25/01/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| **3** | **Coding** | **2 days** | **25/01/2024** | **26/01/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 3.1 | Coding Functions | 1 day | 25/01/2024 | 26/01/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 3.1.1 | [Back End] Menu | 1 day | 25/01/2024 | 25/01/2024 | Nghĩa |
| 3.1.2 | [Back End] Addition | 2 days | 25/01/2024 | 26/01/2024 | Kiên |
| 3.1.3 | [Back End] Subtraction | 2 days | 25/01/2024 | 26/01/2024 | Hiếu |
| 3.1.4 | [Back End] Multiplication | 2 days | 25/01/2024 | 26/01/2024 | Huy |
| 3.1.5 | [Back End] Division | 2 days | 25/01/2024 | 26/01/2024 | Cường |
| 3.1.6 | [Back End] Division with remainder | 2 days | 25/01/2024 | 26/01/2024 | Nghĩa |
| 3.2 | Integration | 1 day | 26/01/2024 | 26/01/2024 | Nghĩa |
| **4** | **Testing** | **2 days** | **26/01/2024** | **27/01/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 4.1 | Testing Functions | 1 day | 26/01/2024 | 26/01/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 4.1.1 | Create Test-Cases for Addition | 1 day | 26/01/2024 | 26/01/2024 | Nghĩa |
| 4.1.2 | Create Test-Cases for Subtraction | 1 day | 26/01/2024 | 26/01/2024 | Kiên |
| 4.1.3 | Create Test-Cases for Multiplication | 1 day | 26/01/2024 | 26/01/2024 | Hiếu |
| 4.1.4 | Create Test-Cases for Division | 1 day | 26/01/2024 | 26/01/2024 | Huy |
| 4.1.5 | Create Test-Cases for Division with Remaider | 1 day | 26/01/2024 | 26/01/2024 | Cường |
| 4.2 | Summary of Test-Cases | 1 day | 27/01/2024 | 27/01/2024 | Nghĩa |
| 4.3 | Review Test - Cases | 1 day | 27/01/2024 | 27/01/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| **5** | **Finish Project Part 1** | **1 day** | **27/01/2024** | **27/01/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
|  | **Duration Part 1** | **8 days** | **20/01/2024** | **27/01/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| **6** | **Intitial Part 2** | **2 days** | **27/02/2024** | **29/02/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 6.1 | Update Project Plan Document | 1 day | 27/02/2024 | 27/02/2024 | Nghĩa |
| 6.2 | Requirement Definition | 2 days | 27/02/2024 | 29/02/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 6.2.1 | Write Use-Case Specification for the Square fuction | 1 day | 27/02/2024 | 29/02/2024 | Hiếu |
| 6.2.2 | Write Use-Case Specification for the Square Root fuction | 1 day | 27/02/2024 | 29/02/2024 | Kiên |
| 6.2.3 | Write Use-Case Specification for the Backspace (<-) fuction | 1 day | 27/02/2024 | 29/02/2024 | Huy |
| 6.2.4 | Write Use-Case Specification for the Delete (->) fuction | 1 day | 27/02/2024 | 29/02/2024 | Cường |
| 6.2.5 | Write Use-Case Specification for the Clear All (CE) fuction | 1 day | 27/02/2024 | 29/02/2024 | Nghĩa |
| 6.2.6 | Summary of Use-Case Specifications | 1 day | 27/02/2024 | 29/02/2024 | Nghĩa |
| 6.3 | Update SRS Document | 1 day | 29/02/2024 | 29/02/2024 | Hiếu, Huy |
| 6.3.1 | Update Document for Section 2.3 | 1 day | 29/02/2024 | 29/02/2024 | Huy |
| 6.3.2 | Update Document for Section 2.4 | 1 day | 29/02/2024 | 29/02/2024 | Hiếu |
| 6.4 | Review SRS Document | 1 day | 29/02/2024 | 29/02/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| **7** | **Design** | **2 days** | **29/02/2024** | **1/3/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 7.1 | Design UI for new functions | 1 day | 29/02/2024 | 29/02/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 7.1.1 | Update UI for the Menu | 1 day | 29/02/2024 | 29/02/2024 | Nghĩa |
| 7.1.2 | Design UI for the Square | 1 day | 29/02/2024 | 29/02/2024 | Hiếu |
| 7.1.3 | Design UI for the Square Root | 1 day | 29/02/2024 | 29/02/2024 | Kiên |
| 7.1.4 | Design UI for the Backspace | 1 day | 29/02/2024 | 29/02/2024 | Huy |
| 7.1.5 | Design UI for the Delete | 1 day | 29/02/2024 | 29/02/2024 | Cường |
| 7.1.6 | Design UI for the Clear All | 1 day | 29/02/2024 | 29/02/2024 | Nghĩa |
| 7.2 | Update UI Document | 1 day | 1/3/2024 | 1/3/2024 | Kiên, Cường |
| 7.2.1 | Update UI Document for Section I, II | 1 day | 1/3/2024 | 1/3/2024 | Kiên |
| 7.2.2 | Update UI Document for Section III | 1 day | 1/3/2024 | 1/3/2024 | Cường |
| 7.3 | Review UI Document | 1 day | 1/3/2024 | 1/3/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| **8** | **Coding** | **1 day** | **1/3/2024** | **1/3/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 8.1 | Coding Functions | 1 day | 1/3/2024 | 1/3/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 8.1.1 | [Back End] Menu | 1 day | 1/3/2024 | 1/3/2024 | Nghĩa |
| 8.1.2 | [Back End] Square | 1 day | 1/3/2024 | 1/3/2024 | Hiếu |
| 8.1.3 | [Back End] Square Root | 1 day | 1/3/2024 | 1/3/2024 | Kiên |
| 8.1.4 | [Back End] Backspace | 1 day | 1/3/2024 | 1/3/2024 | Huy |
| 8.1.5 | [Back End] Delete | 1 day | 1/3/2024 | 1/3/2024 | Cường |
| 8.1.6 | [Back End] Clear All | 1 day | 1/3/2024 | 1/3/2024 | Nghĩa |
| 8.2 | Integration | 1 day | 1/3/2024 | 1/3/2024 | Nghĩa |
| **9** | **Testing** | **1 day** | **2/3/2024** | **2/3/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
| 9.1 | Testing Functions | 1 day | 2/3/2024 | 2/3/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| 9.1.1 | Create Test-Cases for Square | 1 day | 2/3/2024 | 2/3/2024 | Nghĩa |
| 9.1.2 | Create Test-Cases for Square Root | 1 day | 2/3/2024 | 2/3/2024 | Hiếu |
| 9.1.3 | Create Test-Cases for Backspace | 1 day | 2/3/2024 | 2/3/2024 | Kiên |
| 9.1.4 | Create Test-Cases for Delete | 1 day | 2/3/2024 | 2/3/2024 | Huy |
| 9.1.5 | Create Test-Cases for Clear All | 1 day | 2/3/2024 | 2/3/2024 | Cường |
| 9.2 | Summary of Test-Cases | 1 day | 2/3/2024 | 2/3/2024 | Nghĩa |
| 9.3 | Review Test - Cases | 1 day | 2/3/2024 | 2/3/2024 | Nghĩa, Huy, Hiếu, Kiên, Cường |
| **10** | **Finish Project Part 2** | **1 day** | **2/3/2024** | **2/3/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |
|  | **Duration Part 2** | **5 days** | **27/02/2024** | **2/3/2024** | **Nghĩa, Huy, Hiếu, Kiên, Cường** |

Table 2: Detailed Schedule