

**INTERNATIONAL SCHOOL**

**CAPSTONE PROJECT 1**

**CMU-CS 246**

**PROJECT PLAN DOCUMENT**

Version: 2.0

**FOOD MANAGEMENT SYSTEM – FMS**

**Mentor: Nguyen Dang Quang Huy**

***Team Member*:**

Men, Nguyen Thi

Ngoc, Tran Thi Nhu

Thang, Nguyen Huu

Dung, Le Trung

Minh, Le Thanh Nhat

**Approved by Huy Nguyen Dang Quang**

**Project Plan Review Panel Representative:**

Name Signature Date

**Capstone Project 1- Mentor:**

Name Signature Date

Da Nang, 22/2024

**PROJECT INFORMATION**

|  |  |
| --- | --- |
| **Project Acronym** | CS |
| **Project Title** | Calculator | | | |
| **Start Date** | 22 – Jan –2024 | **End Date** | 28 – Jan –2024 | |
| **Lead Institution** | International School, Duy Tan University | | | |
| **Team Member** | **Name** | **Email** | | **Phone** |
| 28209048703 | Men, Nguyen Thi | nguyenthimen190504@gmail.com | | 0828041686 |
| 28206950780 | Ngoc, Tran Thi Nhu | tranthinhungoc16@gmail.com | | 0896500035 |
| 28211102537 | Thang, Nguyen Huu | thangnguyen04112024@gmail.com | | 0702377702 |
| 28211101895 | Dung, Le Trung | letrungdung.camlo@gmail.com | | 0396892906 |
| 28219005165 | Minh, Le Thanh Nhat | minhle130704@gmail.com | | 0853201868 |

**PROJECT PLAN DOCUMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Title** | Project Plan Document | | |
| **Author(s)** | CMU-CS246FIS.5 Team | | |
| **Date** | Jan 22th, 2024 | **File name:** | CMU-CS246FIS.5\_CS\_ProjectPlan\_v1.1.docx |
| **URL** | https://drive.google.com/drive/u/0/folders/1dF29KwsuPN5xl7slOI3nQmHSa5mHnn3B | | |
| **Access** | Project and CMU Program | | |

**SIGNATURE**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Mentor** | Huy, Nguyen Dang Quang | **Signature:** |  |
| **Date:** |  |
| **Project Manager** | Men, Nguyen Thi | **Signature:** |  |
| **Date:** |  |
| **ProDuct**  **Owner** | Ngoc, Tran Thi Nhu | **Signature:** |  |
| **Date:** |  |
| **Team member(s)** | Thang, Nguyen Huu | **Signature:** |  |
| **Date:** |  |
| Dung, Le Trung | **Signature:** |  |
| **Date:** |  |
| Minh, Le Thanh Nhat | **Signature:** |  |
| **Date:** |  |

**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Person(s)** | **Date** | **Description** |
| **1.0** | All members | Jan 22th, 2024 | Draf |
| **1.1** | Men, Nguyen Thi | Jan 28th, 2024 | Final |

**TABLE OF CONTENTS**

**[1. PROJECT OVERVEW 6](#_Toc116910138)**

**[1.1 PROJECT DESCRIPTION 6](#_Toc116910139)**

**[1.2 SCOPE AND PURPOSE 6](#_Toc116910140)**

**[1.3. ASSUMPTIONS AND CONSTRAINT 6](#_Toc116910141)**

**[1.4. PROJECT OBJECT 7](#_Toc116910142)**

**[1.4.1. STANDARD OBJECTIVES 7](#_Toc116910143)**

**[1.4.2. SPECIFIC OBJECTIVES 8](#_Toc116910144)**

**[1.5. CRITICAL DEPENDENCIES 8](#_Toc116910145)**

**[1.6. PROJECT RISK 8](#_Toc116910146)**

**[2. PROJECT DEVELOPMENT APPROACH 9](#_Toc116910147)**

**[2.1. TECHNICAL PROCESS 9](#_Toc116910148)**

**[2.1.1. REASON FOR SELECTING 9](#_Toc116910149)**

**[2..1.2 AGILE METHODOLOG 9](#_Toc116910150)**

**[2.1.3. SCRUM PROCESS 9](#_Toc116910151)**

**[2.2. REQUIREMENT CHANGE MANAGEMENT 10](#_Toc116910152)**

**[2.2.1 STRAGERY FOR MEETING QUALITY OBJECTIVES 10](#_Toc116910153)**

**[2.2.2 QUALITY CONTROL 11](#_Toc116910154)**

**[2.2.3 MEASUREMENT PROGRAM 12](#_Toc116910155)**

**[2.3 UNIT TESTING STRAGERY 12](#_Toc116910156)**

**[2.4. INTEGRATION TESTING STRATEGY 14](#_Toc116910157)**

**[2.5. SYSTEM TESTING STRATEGY 14](#_Toc116910158)**

**[3. ESTIMATION 14](#_Toc116910159)**

**[3.1. SIZE 14](#_Toc116910160)**

**[3.2. EFFORT 14](#_Toc116910161)**

**[3.3. SCHEDULE 15](#_Toc116910162)**

**[3.3.1 PROJECT MILESTON & DELIVERABLES 15](#_Toc116910163)**

**[3.3.2. WORK BREAKDOWN STRUCTURE 17](#_Toc116910164)**

**[3.3.3 DETAILED SHEDULE 17](#_Toc116910165)**

**[3.3.4. PROJECT SHEDULE 28](#_Toc116910166)**

**[3.4. RESOURCE 28](#_Toc116910167)**

**[3.5. INFRASTRUCTURE 28](#_Toc116910168)**

**[3.6. TRAINING PLAN 29](#_Toc116910169)**

**[4. PROJECT ORGANIZATION 30](#_Toc116910170)**

**[4.1. PROJECT TEAM 30](#_Toc116910171)**

**[5. COMMUNICATION & REPORTING 31](#_Toc116910172)**

**[6. CONFIGURATION MANAGEMENT 33](#_Toc116910173)**

**[7. SECURITY ASPESTS 33](#_Toc116910174)**

**Table**

**Table 1: Project Description........................................................................................5**

**Table 2: Assumptions and Constraints.......................................................................8**

**Table 3: Standard Objectives......................................................................................9**

**Table 4: Project Risk..................................................................................................10**

**Table 5: Strategy for meeting quality objectives.....................................................12**

**Table 6: Quality Control............................................................................................13**

**Table 7: Measurement program...............................................................................13**

**Table 8: Effort.............................................................................................................16**

**Table 9: Project Milestone & Deliverables………………………………………...17**

**Table 10: detail schedule............................................................................................29**

**Table 11: infrastructure.............................................................................................30**

**Table 12: Training plan.............................................................................................30**

**Table 13: Project team...............................................................................................32**

**Table 14: Communication & Reporting…………………………………………...33**

**Figuare**

**Figure1: Scrum master..............................................................................................11**

**Figuare 2: Work breakdown structure....................................................................18**

# 1. PROJECT DESCRIPTION

|  |  |  |  |
| --- | --- | --- | --- |
| **Project code** | CS | **Contract type** | Internal Project |
| **Customer** | N/A | **End-user** | Management,  employee, kitchen staff of company |
| **Project type** | Internal | **Project Manager** | Men, Nguyen Thi |
| **Project category** | Calculator System | **Business Domain** | AI |
| **Application type** | Web Applcation |  |  |

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

Calculator system is a pocket calculator system that can perform basic calculations such as addition, subtraction, multiplication, division, etc. This system was built with the goal of helping pupils, students and workers. work in the field of mathematics performing calculations accurately, quickly and easily.

The system can perform accurately, even when those calculations are complex or involve many numbers. This helps avoid human errors when performing complex calculations. We can perform calculations quickly and easily, helping users save time and effort, helping to increase users' work efficiency, especially in fields that require a lot of calculation.

## **2. DETAILED SCHEDULE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Task Name** | **Start** | **Finish** | **Effort** | **Resource Names** |
| **1** | **Requirement** | **Jan 23, 2024** | **Jan 28, 2024** | **15 hrs** | **All members** |
| 1.1 | Planning | Jan 23, 2024 | Jan 23, 2024 | 3 hrs | Men |
| 1.2 | SRS | Jan 24, 2024 | Jan 25, 2024 | 6 hrs | Thang, Dung |
| 1.3 | Design | Jan 26, 2024 | Jan 26, 2024 | 3 hrs | Minh, Ngoc |
| 1.4 | Test case | Jan 28, 2024 | Jan 28, 2024 | 3 hrs | Men |
| **2** | **Analysis & Design** | **Jan 26, 2024** | **Sep 26, 2024** | **3,5 hrs** | **All members** |
| 2.1 | Write UI for addition function | **Jan 26, 2024** | **Jan 26, 2024** | 0,5 hrs | Minh |
| 2.2 | Write UI for subtraction function | **Jan 26, 2024** | **Jan 26, 2024** | 0,5 hrs | Dung |
| 2.3 | Write UI multiply function | **Jan 26, 2024** | **Jan 26, 2024** | 0,5 hrs | Thang |
| 2.4 | Write UI for divide function | **Jan 26, 2024** | **Jan 26, 2024** | 0,5 hrs | Men |
| 2.5 | Write UI for modulo function | **Jan 26, 2024** | **Jan 26, 2024** | 0,5 hrs | Ngoc |
| 2.6 | Write UI for reset function | **Jan 26, 2024** | **Jan 26, 2024** | 0,5 hrs | Minh |
| 2.7 | Write UI for exit function | **Jan 26, 2024** | **Jan 26, 2024** | 0,5 hrs | Minh |
| 2.8 | Write UI for Square function | **Mar 7, 2024** | **Mar 7, 2024** |  | Dung |
| 2.9 | Write UI Square root function | **Mar 7, 2024** | **Mar 7, 2024** |  | Thang |
| 2.10 | Write UI Backspace function | **Mar 7, 2024** | **Mar 7, 2024** |  | Ngoc |
| 2.11 | Write UI Delete function | **Mar 7, 2024** | **Mar 7, 2024** |  | Minh |
| 2.12 | Write UI AC function | **Mar 7, 2024** | **Mar 7, 2024** |  | Dung |
| **3** | **Code** | **Jan 27, 2024** | **Jan 27, 2024** | **3.5 hrs** | **All members** |
| 3.1 | Addition function | Jan 27, 2024 | Jan 27, 2024 | 0.5 hrs | Minh |
| 3.2 | Subtraction function | Jan 27, 2024 | Jan 27, 2024 | 0.5 hrs | Dung |
| 3.3 | Multiply function | Jan 27, 2024 | Jan 27, 2024 | 0.5 hrs | Thang |
| 3.4 | Divide function | Jan 27, 2024 | Jan 27, 2024 | 0.5 hrs | Men |
| 3.5 | Modulo function | Jan 27, 2024 | Jan 27, 2024 | 0.5 hrs | Ngoc |
| 3.6 | Reset function | Jan 27, 2024 | Jan 27, 2024 | 0.5 hrs | Dung |
| 3.7 | Exit function | Jan 27, 2024 | Jan 27, 2024 | 0.5 hrs | Dung |
| 3.8 | Square function | Mar 6, 2024 | Mar 6, 2024 | 0.5hrs | Dung |
| 3.9 | Square root function | Mar 6, 2024 | Mar 6, 2024 |  | Thang |
| 3.10 | Backspace function | Mar 6, 2024 | Mar 6, 2024 |  | Ngoc |
| 3.11 | Delete function | Mar 6, 2024 | Mar 6, 2024 |  | Minh |
| 3.12 | AC function | Mar 6, 2024 | Mar 6, 2024 |  | Dung |
| **4** | **Test** | **Jan 28, 2024** | **Jan 28, 2024** | **3 hrs** | **Men** |
| 4.1 | Addition function **Passed** | Jan 28, 2024 | Jan 28, 2024 |  |  |
| 4.2 | Subtraction function **Passed** | Jan 28, 2024 | Jan 28, 2024 |  |  |
| 4.3 | Multiply function **Passed** | Jan 28, 2024 | Jan 28, 2024 |  |  |
| 4.4 | Divide function **Passed** | Jan 28, 2024 | Jan 28, 2024 |  |  |
| 4.5 | Modulo function Passed | Jan 28, 2024 | Jan 28, 2024 |  |  |
| 4.6 | Reset function Passed | Jan 28, 2024 | Jan 28, 2024 |  |  |
| 4.7 | Exit function ***Passed*** | Jan 28, 2024 | Jan 28, 2024 |  |  |
| 4.8 | Square function | Mar 8, 2024 | Mar 8, 2024 |  |  |
| 4.9 | Square root function | Mar 8, 2024 | Mar 8, 2024 |  |  |
| 4.10 | Backspace function | Mar 8, 2024 | Mar 8, 2024 |  |  |
| 4.11 | Delete function | Mar 8, 2024 | Mar 8, 2024 |  |  |
| 4.12 | AC function | Mar 8, 2024 | Mar 8, 2024 |  |  |