

**INTERNATIONAL SCHOOL**

**CAPSTONE PROJECT 1**

**CMU-SE 450**

**PROJECT PLAN DOCUMENT**

Version: 1.1

**SIMPLE CACULATOR – SC**

**Mentor: Nguyen Dang Quang Huy**

***Team Member*:**

Dang Van Nam

Nguyen Tran Nam Khanh

Dang Trung Vuong

Nguyen Huu Tam Kien

Le Huynh Vinh Tu

**Approved by Huy Nguyen Dang Quang**

**Project Plan Review Panel Representative:**

Name Signature Date

**Capstone Project 1- Mentor:**

Name Signature Date

Da Nang, 02/2025

**PROJECT INFORMATION**

|  |  |
| --- | --- |
| **Project Acronym** | SC |
| **Project Title** | Simple Caculator | | | |
| **Start Date** | 26 – Feb–2025 | **End Date** | 05 – Mar–2025 | |
| **Lead Institution** | International School, Duy Tan University | | | |
| **Team Member** | **Name** | **Email** | | **Phone** |
| 29211128649 | Dang Van Nam | namdang6151@gmail.com | | 0762725492 |
|  | Nguyen Tran Nam Khanh | khanh2005hs@gmail.com | | 0833199092 |
|  | Dang Trung Vuong | dangtrungvuong2020@gmail.com | | 0793625216 |
|  | Nguyen Huu Tam Kien | tkien2703@gmail.com | | 0812024321 |
|  | Le Huynh Vinh Tu | lehuynhvinhtu2005@gmail.com | | 096635830 |

**PROJECT PLAN DOCUMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Title** | Project Plan Document | | |
| **Author(s)** | C1SE.28 Team | | |
| **Date** | Feb 26th, 2025 | **File name:** | PROJETC PLAN DOCUMENT.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:** |  |
| **Scrum master** | Nhan, Tran Van | **Signature:** |  |
| **Date:** |  |
| **ProDuct**  **Owner** | Tuan, Phan Anh | **Signature:** |  |
| **Date:** |  |
| **Team member(s)** | Huy, Huynh Duc | **Signature:** |  |
| **Date:** |  |
| Huy, Chau Ngoc | **Signature:** |  |
| **Date:** |  |

**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Person(s)** | **Date** | **Description** |
| **1.0** | All members | Feb 26th, 2022 | Draf |

**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** | SC | **Contract type** | Internal Project |
| **Customer** | N/A | **End-user** | User |
| **Project type** | Internal | **Project Manager/**  **Scrum Master** | Dang Van Nam |
| **Project category** | Simple caculator | **Business Domain** | AI |
| **Application type** | Software application |  |  |

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

Food management is the management of employee meals in enterprises, industrial parks, etc. Meals need to be pre-quantified with the same standards and produced in large quantities, serving many people. people at the same time. Most of these meals will be produced from industrial kitchens in large quantities and high productivity. In addition, the meal management also includes the control of ingredients and the chef's processing process.

Food management software is a technology solution that helps businesses easily calculate raw materials, dish norms, and track food in and out daily. In addition, the software also helps kitchen staff know the number of employees who register for meals to process the right quantity, avoiding excess or shortage of meals.

## 2. DETAILED SCHEDULE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Task Name** | **Duration** | **Start** | **Finish** | **Assign to** |
| **1** | **Initial** | **2 days** | **26/02/2025** | **27/02/2025** | **All members** |
| 1.1 | Project Kick-off Meeting | 1 hrs | 26/02/2025 | 26/02/2025 | All members |
| 1.2 | Discuss about project ideal | 2 hrs | 26/02/2025 | 26/02/2025 | All members |
| 1.3 | Create Proposal Document | 1 day | 27/02/2025 | 27/02/2025 | Khanh |
| 1.4 | Create Project Plan Document | 1 day | 27/02/2025 | 27/02/2025 | Nam |
| 1.5 | Create Product Backlog Document | 1 day | 27/02/2025 | 27/02/2025 | Vuong, Tu |
| 1.6 | Create User Story | 1 day | 27/02/2025 | 27/02/2025 | Kien |
| 1.7 | Review Document | 1 day | 27/02/2025 | 27/02/2025 | All members |
| **2** | **Requirement** | **1 day** | **28/02/2025** | **28/02/2025** | **All members** |
| 2.1 | Task assignment meeting | 2 hrs | 28/02/2025 | 28/02/2025 | All members |
| 2.2 | Design template | 1 day | 28/02/2025 | 28/02/2025 | Tu |
| 2.3 | Interview | 3 hrs | 28/02/2025 | 28/02/2025 | All members |
| **2.3** | **Write document** | **1 day** | **28/02/2025** | **28/02/2025** | **Khanh, Nam Kien, Vuong** |
| 2.3.1 | Functional | 1 day | 28/02/2025 | 28/02/2025 | N.Huy |
| 2.3.2 | Non-Functional | 1 day | 28/02/2025 | 28/02/2025 | H.Huy |
| **3** | **Design** | **2 days** | **29/09/2022** | **30/09/2022** | **Tuan,Nhan** |
| 3.1 | Addition | 2 | 31/08/2022 | 1/09/2022 | Tuan.Huy,Huy |
| 3.2 | Subtraction | 2 | 2/09/2022 | 3/09/2022 | Nhan,Tuan,Huy,Huy |
| 3.3 | Multiplication | 1 | 2/09/2022 | 2/09/2022 | N.Huy |
| 3.4 | Division | 1 | 2/09/2022 | 2/09/2022 | N.Huy |
| 3.5 | Power | 1 | 2/09/2022 | 2/09/2022 | N.Huy |
| 3.6 | Square root | 1 | 2/09/2022 | 2/09/2022 | H.Huy |
| 3.7 | Percent | 1 | 2/09/2022 | 2/09/2022 | H.Huy |
| 3.8 | Backspace a character | 1 | 2/09/2022 | 2/09/2022 |  |
| 3.9 | Clear all | 1 | 2/09/2022 | 2/09/2022 |  |
| **4** | **Code** | **2** | **3/09/2022** | **3/09/2022** | **H.Huy** |
| 4.1 | Addition | 1 | 3/09/2022 | 3/09/2022 | H.Huy |
| 4.2 | Subtraction | 1 | 3/09/2022 | 3/09/2022 | N.Huy |
| 4.3 | Multiplication | 1 | 3/09/2022 | 3/09/2022 | N.Huy |
| 4.4 | Division | 2 | 4/09/2022 | 5/09/2022 | H.Huy |
| 4.5 | Power | 11 | 6/09/2022 | 15/09/2022 | Tuan,Nhan.Huy,Huy |
| 4.6 | Square root | 1 | 6/09/2022 | 6/09/2022 | Nhan |
| 4.7 | Percent | 1 | 6/09/2022 | 6/09/2022 | Nhan |
| 4.8 | Backspace a character |  |  |  |  |
| 4.9 | Clear all |  |  |  |  |
| **5** | **Test** | **1** | **6/09/2022** | **6/09/2022** | **Tuan** |
| 5.1 | Addition | 1 | 6/09/2022 | 6/09/2022 | Nhan |
| 5.2 | Subtraction | 1 | 6/09/2022 | 6/09/2022 | Nhan |
| 5.3 | Multiplication | 1 | 7/09/2022 | 7/09/2022 | Tuan |
| 5.4 | Division | 1 | 7/09/2022 | 7/09/2022 | Tuan |
| 5.5 | Power | 1 | 7/09/2022 | 7/09/2022 | Nhan |
| 5.6 | Square root | 1 | 7/09/2022 | 7/09/2022 | N.Huy |
| 5.7 | Percent | 1 | 8/09/2022 | 8/09/2022 | Nhan |
| 5.8 | Backspace a character |  |  |  |  |
| 5.9 | Clear all |  |  |  |  |
| **6** | **Product Deployment** | **1** | **8/09/2022** | **8/09/2022** | **Nhan** |
|  |  |  |  |  |  |
| **7** | **Close Project** | **2** | **5/12/2022** | **6/12/2022** | **Tuan,Nhan.Huy,Huy** |
| 3.1 | Release | 1 | 7/12/2022 | 7/12/2022 | **Tuan,Nhan.Huy,Huy** |
| 3.2 | Project Meeting | 1 | 8/12/2022 | 8/12/2022 | **Tuan,Nhan.Huy,Huy** |
| 3.3 | Final Submission | 1 | 9/12/2022 | 9/12/2022 | **Tuan,Nhan.Huy,Huy** |
|  | **Duration** | **8 days** | **20/08/2022** | **9/12/2022** | **Tuan,Nhan.Huy,Huy** |

***Table 10:*** *detail schedule*

**3. REFERENCES**

1. <https://www.atlassian.com/agile/scrum>
2. [https://www.cprime.com/resources/whatis-agile-what-is-scrum/](https://www.cprime.com/resources/what-is-agile-what-is-scrum/)
3. <https://www.agilealliance.org/agile101/>
4. <https://fnb.mysapo.vn/admin/authorization/login>
5. <https://phanmemtinhluong.com/phan-mem-quan-ly-suat-an-cong-nghiep/>