CIS641 Calculator Project

Vivi Hoang and Pratik Shrestha
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Overview

- Introduction
- Time chart
- Use case diagram
- Activity diagram
- Use case description
- Short demo

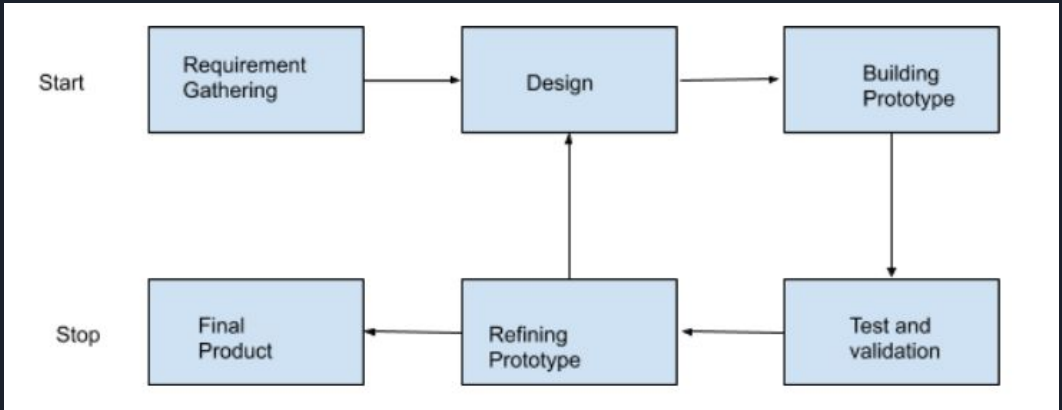
Team members

Vivi

Pratik

Introduction

- An application to perform simple arithmetic, trigonometric and unit conversion operations
- Created in Python using tkinter for GUI
- Prototype model design approach



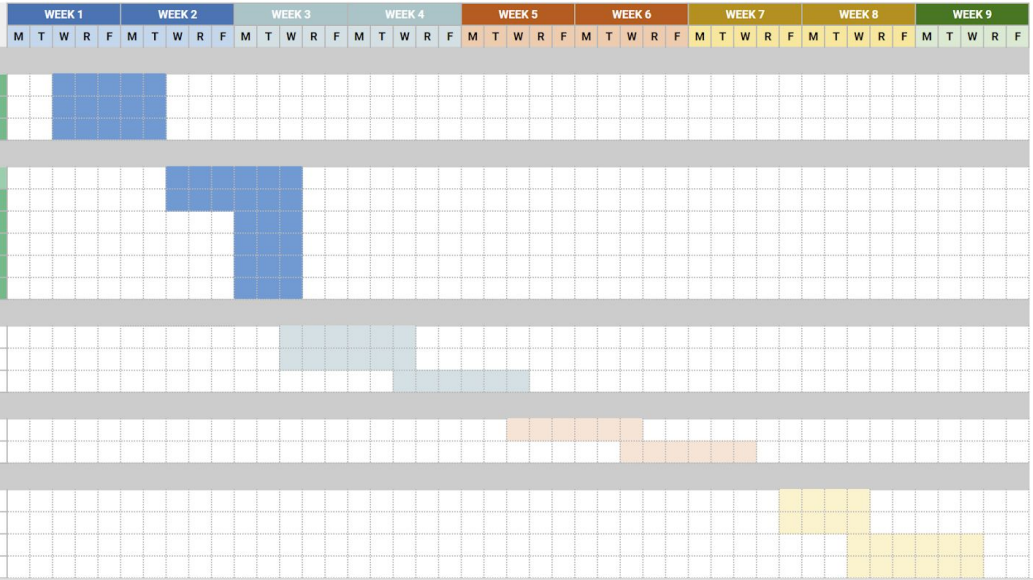
Project timeline

https://docs.google.com/presentation/d/1nXb4YJGbH_ivSwdUiYwBPlFZklBKlYC5-WcqhmgLbP0/edit?usp=sharing

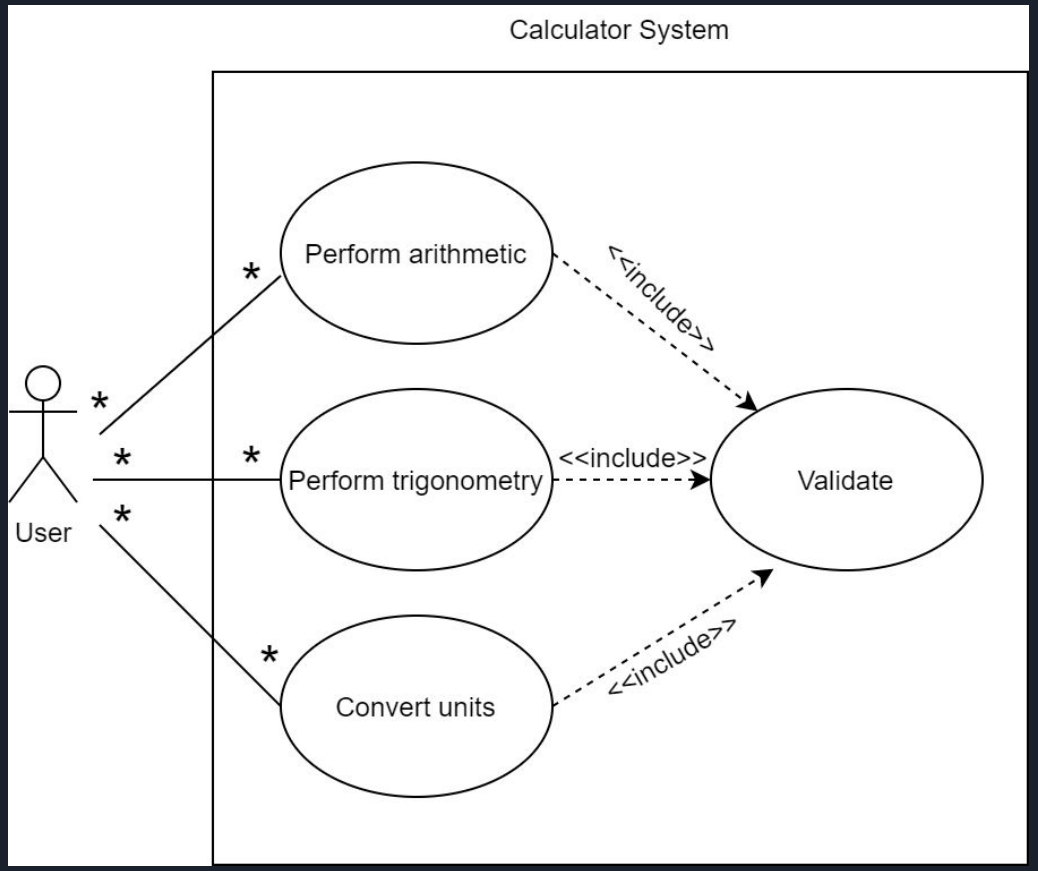
Calculator Timeline

PROJECT TITLE	Calculator	DATE	10/28/2020
PROJECT TEAM MEMBERS	Vivi Hoang and Pratik Shrestha		

TASK NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
1	**Phase 1: Initial program**					
1.1	Set up Python and Anaconda coding environment	Vivi and Pratik	10/14/20	10/20/20	7	100%
1.2	Create basic Python program	Vivi and Pratik	10/14/20	10/20/20	7	100%
1.3	Research tkinter	Vivi and Pratik	10/14/20	10/20/20	7	100%
2	**Phase 2: Midterm Version 1**					
2.1	GUI implementation	Pratik	10/21/20	10/28/20	8	70%
2.2	Gantt chart	Vivi	10/21/20	10/28/20	4	100%
2.3	Review activity diagram	Vivi	10/26/20	10/28/20	3	100%
2.4	Review use case description	Vivi	10/26/20	10/28/20	3	100%
2.5	Midterm slides	Vivi and Pratik	10/26/20	10/28/20	3	100%
2.6	Testing	Vivi and Pratik	10/26/20	10/28/20	3	100%
3	**Phase 3: Version 2**					
3.1	Implement class-based approach	Pratik	10/29/20	11/4/20	8	0%
3.2	Add trigonometric functionality	Pratik and Vivi	10/29/20	11/4/20	8	0%
3.3	Test for bugs and edge cases	Vivi	11/4/20	11/11/20	8	0%
4	**Phase 4: Version 3**					
4.1	Add unit conversion functionality	Pratik	11/11/20	11/18/20	8	0%
4.2	Test for bugs and edge cases	Vivi	11/18/20	11/25/20	8	0%
5	**Phase 5: Final**					
5.1	Finalize program	Pratik and Vivi	11/27/20	12/2/20	6	0%
5.2	Testing	Vivi	11/27/20	12/2/20	6	0%
5.4	Finalize documentation	Pratik and Vivi	12/2/20	12/9/20	8	0%
5.5	Finalize slides	Pratik and Vivi	12/2/20	12/9/20	8	0%

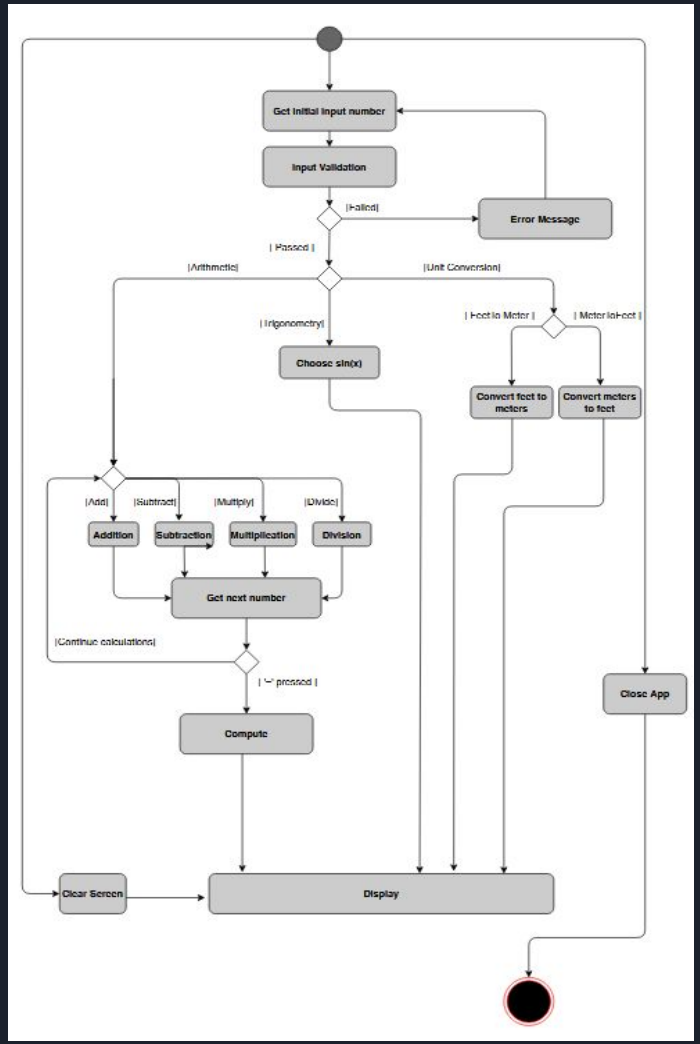


Use case diagram



Activity diagram

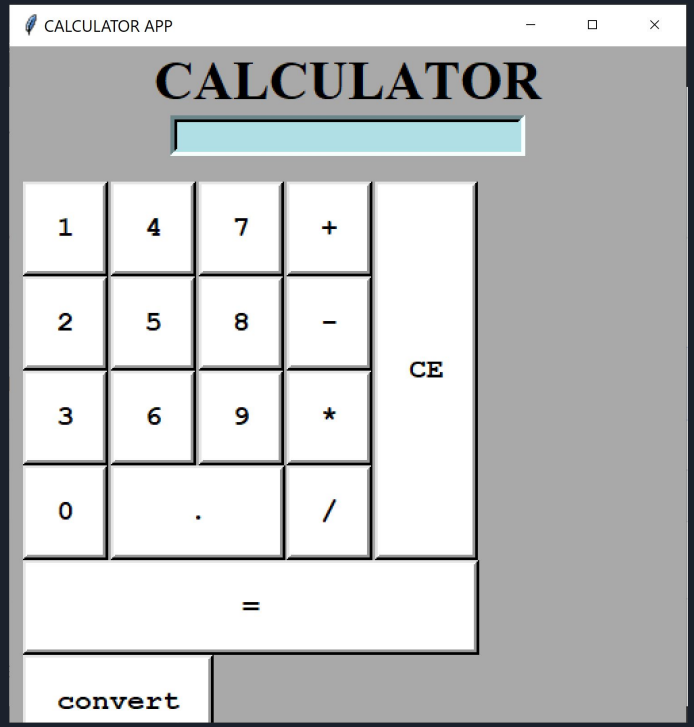
https://github.com/pratik-stha/GVSU-CIS641-MISCHIEF-MANAGEMENT/blob/master/artifacts/functional-models/Activity%20Diagram%201.pdf



Use case description

- Perform Arithmetic
- Perform Trigonometric
- Perform Unit Conversion
- Validation
- Clear Screen

Project Demo



Thank you !!

Any Questions?