Project vlog #3

Due: Dec 3, 2021, @ 10:10am

Team member (re)introductions

Name of the team: **Master Calculator**.
Team member: **Philip Anyuon.**

Role and responsibility

- Planned and prepared the initialization of the project.
- Documented and presented the progress of the project.
- GitHub/wiki management.
- Coding and Interfaces development
- Managing the scope of the project.
- Acquire all the documents needed for the project.
- Update and manage the GitHub and wiki when required.
- Develop applications as planned and achieve the MVP on time.

Professor Tim is Scrum Master, and play the following roles:

- Manage and direct the team.
- Provide resources for development.
- Monitoring the team progress.
- Give advice to the team.

Professor Karim is a Mentor, and his role is:

- Giving advice and comments to the project progress.
- Provide resource necessary for the development

Brief project blurb

This is the solo project for ENSE400 Capstone at University of Regina. The purpose of the project is to design a master calculator with better interfaces and reduce the complexity of combining symbols and abbreviations to derive the answer. In addition, the master calculator will help users understand the problem better by associating the problem with the process. It will contain most of the engineering calculation formulas.

Project need /innovation

The problem to be solved are:

1. To solve the problem of crowdy symbols on the buttons of the calculator.
2. To introduce a simple interface that includes the problem's formula and requirement variables.
3. To introduce a simple calculator that is open ended for future development.

We want to move away from this complex keyboard to this simple and clean keyboard

Project activity dates
October 15, 2021 - December 3, 2021

Project activity

Activity 1
1. Sept 16, 2021: The background documents of the project were written.
2. Sept 16, 2021: Updated the UofR wiki.
3. Sept 16, 2021: Uploaded the project documents to GitHub.
4. Sept 17, 2021: Uploaded the Vlog on YouTube, GitHub and UofR wiki. Every document is uploaded.

Activity 2
Scrum #1.
Sept 18-24 of 2021
documents submitted:
1. Business Case
2. Project scope statement
3. Project roles and responsibilities
4.Response to questions

Activity 3
The work done for two week was:
Sept 25 -Oct 8 of 2021
1. complete the project charter
2. downloaded the requirement tools for development.
3. build the high fidelity prototyping for the app.
4. fill out scrum #2 template.
5. update this automated Kanban with reviews

Oct 15, 2021, work.
Vlog # uploaded to YouTube.
Documents updated (GitHub and UofR wiki). peer assignment submitted. The other files include:
1.Vlog PowerPoint
2.Vlog pdf

Activity 4
Scrum #3.1
Oct 22, 2021
Representing the progress of the project.
presenting Scrum 3.1 check-in template.

Activity 5
Oct 23 - Nov 19, 2021, activities.
1. Coding
a. main screen
b. basic calculator interface
c. scientific calculator interface
d. engineering calculator interface
2. updating GitHub with new branch (master)
3. updating stories on Board
4. uploaded scrum #4 template
5. uploaded PowerPoint
6. uploaded interfaces' screen shot

Activity 6
1. fixing some problems related to fonts and screens adjustment. recommit to GitHub the changes.
2. documentations: Complete the MVP architecture Diagram.
3. Working on vlog 3 presentation.

Status description

The status of the project is green. The MVP has been achieved.

Project issues

The project has no issue.
Previous Scrum comments:
1. Separating output from calculator expression
2. Helping people to learn the meaning of what they are calculating, for example, what is “kinetic energy”?

I have opened a space for a short and brief definition on the Engineering calculator top part with a yellow button. I will use that one to put all definitions on it. For separating output from calculator expression, I will see if I should make space between the result and the expression or make a separate window for the result.

Project changes

There is nothing changed recently or after the last scrum.

Documentation overview and/or project demo

The main goal of this project is to solve the problem of crowdy symbols on the buttons of the calculator, and to introduce a simple interface that includes the problem's formula and requirement variables. The demo below shows the progress to the goal.

Project demo part:

- Going over basic calculator and check some capabilities
- Going over the Scientific Calculator and checking some capabilities (radians).
- Going over the Engineering calculator and checking some capabilities.

Next up

On the next coming weeks, I will be working on many tasks:

- Making the whole app work fine.
- Working on scientific calculator
- Working on unit conversion
- Adding more interfaces to the engineering calculator
- Run the app on iOS, Android, and web
- Update wiki and GitHub.

Retrospective

Since the project is a solo project, the choice was the same, and things went well. Same thing to be improved in the coming class, as I mentioned in the previous scrum is getting better PCs or getting a Mac computer instead of Windows so that I can run the app on both Android and iOS devices. Another thing I think should not happen in the next class is the embedded calculator on the raspberry pi. Now I am using an app for iOS and Android mobile devices so, there is no need to embed it on raspberry pi.

Team reflection

Discuss:

- Does the team feel "on track"? **Yes, the team is on track. The status is green**.
- What progress does the team particularly feel good (great) about? **Getting the Minimum Available Product (MVP) is the greater achievement.**
- What barriers (if any) does the team feel are a current impediment to success? **No barrier that can prevent success.**
- What help (if any) does the team require to move positively forward? **Positive ideas.**
- What questions or concerns does the team have (if any)? **There is no concern.**