ENSE400 Capstone 2021
Scrum #2
Date: Oct 8, 2021

Team member & project re-introduction.

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

Project Idea

The master calculator will help user understand the problem better by **associating the problem with the process**. It will provide the **better interface** to user, and it will **contain most of the engineering calculation formulas.**

Project need /innovation
The problem to be solved are:

1. We need a calculator that contain many formulas and calculate many problems.
2. We need a calculator which help user understand the problem better.
3. If the new formula would be discovered in 2030, we need a calculator that may not be difficult to add a new formula into it.

Project Scope

The project scope is a minimum viable product which includes:

1. Basic Calculator interface
2. Scientific Calculator interface
3. Engineering Calculator
   a. Kinetic Energy interface
   b. Potential energy interface
   c. Thermal energy interface
   d. Work interface
   e. power

Technology and tools to be used.

- High fidelity prototyping I am using adobe XD.
- Development Stack:
   a. Language will be Java
   b. Tools for development: Android Studio
   c. User interface framework: Android UI

Work done so far

- Installation of Java SDK
- Installation of Android Studio and android UI framework
- Hi fi prototyping.

Scrum dates

Oct. 8, 2021 – Oct 22, 2021

Status Description

The status of the project is green. There is no obstacle that has raised at this level.

Comments on previous scrum/meeting time

1. Documentation and installation: The documents which must be uploaded on GitHub which were not there in last scrum of sept 24, 2021 are:
   - Project Charter
   - Screenshot of high-fidelity prototyping.
   - Scrum # 3 about the progress of the project
2. About meeting with mentor: After our last meeting on Monday 4 Oct. 2021, I have sent two emails to Professor Karim to have a short time meeting but none of the email was replied. I assumed he might be busy with other issues.
3. About development tools and the development of application across platform; There is some concerns about using tools like react Native and Flutter. These tools are very good, but they need time to get familiarized with them before using them efficiently in a complex project. So, I decided to go along with Java.

Project Issues

There is no issue at this level.

Project Changes

There is slight change in the scope. In the previous scope document, the engineering calculator was contained Kinetic energy, potential energy, and thermal energy. Now it extended to include work and power. Many other calculation and formula's interface may be added only if there is enough time.

Documentation overview and /or project Demo

Next up

- Continuous searching for necessary documents.
- Begin the development of app.
- Need to meet a new Mentor.
- Updating GitHub "automated Kanban with reviews" with any development.

Discussion

1. **Does the team feel "on track"?** Yes, the team is on track. The status is green.
2. **What progress does the team particularly feel good (great) about?** It is good to see the app on high fidelity prototype.
3. **What barriers (if any) does the team feel are a current impediment to success?** There is no barrier in a current time.

4. **What help (if any) does the team require to move positively forward?** I may be looking for another Mentor since Professor Karim seem to have a too much busy schedule.
5. **What questions or concerns does the team have (if any)?** The only concern is getting a Mentor.