Business case

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Community & UN SDG(s):	Local Supplies Requesting for Classroom ; Goal #1 No Poverty & 4 Quality Education
Date:	OCT 20, 2023

Proposed Project	BuildMyClassroom
Date Produced	OCT 20, 2023
Background	In some schools, especially younger kids, face many challenges while studying. Since classrooms have a diversity of culture and economic students, going to school is not equal for everyone. Depending on the situations and time management, kids come to school on an empty stomach. This definitely affects the kids health and the ability to stay focused in sharing knowledge. Additionally, some students do not have the required tools such as school supplies, such as notebooks, pens etc. Many students are not able to participate in activities which will require some amount of participation with purchase. Schools plan many activities where kids can be involved in and improve their physical and mental states. However, this does not correlate with all the students because many do not have the same level of economic stability as their parents cannot afford such things. These things could affect kids massively in their future life academically and professionally.
Business Need/ Opportunity	Currently there are not a whole lot of tools available to solve these problems. Most used way right now is word-to-mouth scenarios where school teachers connect with people in their circle for helping hands. This tool does not yield a high success rate as many times people tend to forget to communicate. This also has a very small audience and depends on the teacher's group circle. The Second option is, sometimes teachers help out themselves. This option supplies limited results as teachers themselves have personal constraints. The schools themselves have limited budgets and cannot help out massively. This is an opportunity to help the community to solve their problem via technology. Digital habitat can help to connect two different communities together. Such a platform will enable teachers to reach a wide audience, in which people with extra supplies can give away to help kids. Instead of Word-of-Mouth this habit can optimize results and offer more supplies to students.

Options	Potential Options to complete the project:
	    WordPress
	    MERN Stack
	Do not do project

Cost-Benefit Analysis

WordPress
- Benefit:
    - One of the benefits would be its a fairly new platform which will be good to learn and have one more tool.
    - WordPress being online is a huge advantage as one can work from anywhere without the concerns about required processing power.
    - Security is built in and does not require extra coding to secure users information.
    - One of the advantages is that it is very popular , therefore it has a huge collection of resusrose available for help.

- Cost:
  - Time
    - Time is required to study the platform and get familiar with the tools. Might be a constraint as the time frame is little for the project.
  - Integration of plug in
    - Some plugins are not free, plugins also update and conflict with the other design part of the website.
    - Integration of plug-ins is extremely difficult and requires in-depth knowledge of their documentation.

MERN Stack
- Benefit:
  - Project Scaling
    - When the project is to be scaled with new functionality it would be easy to implement as code could be reused.
  - Javascript
    - The backend and the frontend both are in javascript therefore it would be easy to pass data back and forward without converting the data type.
  - Zero cost
    - It is a free open source stack, with free libraries for CSS, Frameworks etc.

    Experience
    - Experienced with the stack as used it previously therefore, learning and troubleshooting problems in the project won't be an issue

- Cost:
  - Computer Machines
    - Could run into issues when utilizing the tech stack with not proper computing machines.
  - Deployment issues
    - when deploying the app, issues will arise regarding system variables etc.

Recommendation

WordPress