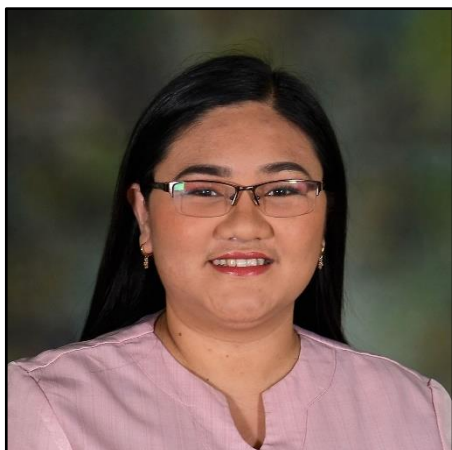


Q CAN DO IT: UTILIZATION OF QR CODE FOR A STREAMLINED, SELF-DIRECTED AND SAFE SUBMISSION AND RETRIEVAL OF MODULES AND LEARNER'S OUTPUT



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ABSTRACT

This research aimed to assess the effectiveness of utilizing QR Codes for streamlined, self – directed and safe submission and retrieval of modules and learning outputs. Modules and worksheets are regularly distributed by teachers and received by parents inside the school premises. Likewise, at the end of the week, parents must go to school to submit the learning outputs of the students to their respective teachers and advisers. The regular close and long contact time between teachers and parents every time there would be submission and retrieval of modules and learner's output poses danger to both teachers and parents. The presence of COVID – 19 is being proven and transmission is most likely to happen between people who regularly meet each other. In this study, the researcher made use of QR Codes to design a streamlined, self – directed and safe activity such as module distribution and retrieval. The use of QR Code lessened the contact time between teachers and parents. Scanning the QR Code directs the parents to a form that is answered for a self – directed submission and documentation of the submitted outputs. It also aided in the health declaration and contact tracing activity as part of the health protocols practiced by the school for a safer workplace. Following the utilization of QR codes, planning and clear instructions, faster, safer and more organized practice of submission and retrieval of modules and learning outputs was being reinforced.

Keywords: Self – directed, streamlined process, safer procedure

INTRODUCTION

COVID – 19 placed the whole world in an almost never – before seen scenario. Community quarantines and lockdowns were implemented in the whole world. Establishments were closed and that included the schools. Millions of learners are not able to come to schools and learn in a face – to face set – up where students and teachers are present in the same place at the same time.

The Department of Education is alert and aware that the situation will require a drastic change in the present set – up for education to continue. DepEd released DepEd order No. 12 s. 2020 also known as Adoption of the Basic Education Learning Continuity Plan for School Year 2020 – 2021 in Light of the COVID – 19 Public Health Emergency. The said order addressed the current situation and the prescribed and suggested means that will enable every school to devise a Learning Continuity Plan that is suited to the learners in the community given their means and resources.

DepEd Order No. 12 also emphasizes the practice of health safety operations with the aim to reduce contact and transmission in schools. Schools are expected to come up with the best and safest way to conduct and deliver the necessary services in accordance with their adapted modality.

During the first few weeks of module distribution and retrieval, various physical methods of protecting teachers and parent were observed. These includes the use of plastic cover as dividers for some schools as additional to the proper wearing of facemask and face shield. However, it was also observed that some teachers and parents still need to get in contact with each other and deviate from the safety protocols of physical distancing.

With the given situation, protocols and observation, the idea of utilizing QR Code for contact tracing and systematic submission and retrieval of modules and learning materials came about. Utilizing the QR Code may be a new idea for most

parents and guardian, but it will be a safe and systematic approach. Thus, this study aimed to determine if the utilization of QR Code will give more emphasis to safety and will streamline the process of submission and retrieval of learning materials in Binan Integrated National High School.

METHODOLOGY

The research employed quasi-experimental research design to determine if the utilization of QR code helped in the streamlining of a self – directed and safe retrieval and submission of learning materials through quantitative data analysis.

The researcher used purposive sampling in the study. Participants to the study were the parents and guardians of Grade 11 STEM Students. The parent – participants were purposely selected based on the modality of the students which is Modular Modality. Outputs of the students under this modality were submitted to the school by their parents, respectively.

The study made use of a validated questionnaire with a 5 -point Likert scale adapting the different areas to be evaluated in the process. Mean, standard deviation and t – test were the statistical tools to analyze the data gathered.

RESULTS

The study aimed to assess the quality of submission and retrieval of modules and learning materials in terms of process flow, duration of process, contact tracing, documentation of released learning materials and submitted outputs, safety of parents and teachers with the utilization of QR codes. The goal of utilizing the QR codes is to create a streamlined, self-directed, and safe submission and retrieval of modules and learner's output.

Results shows that the respondents described the quality of submission of modules and learning materials as Good with an overall mean of 3.68. The Process

Flow with a mean 3.92 ranked 1 while the documentation of released learning materials and submitted output ranked 2 with a mean of 3.78. The participants also described the duration of the entire process as good with a mean of 3.65 and ranked 3. The contact tracing ranked 4 with a means of 3.56 while safety of parents and teachers with a mean of 3.47 ranked 5.

The quality of submission and retrieval of modules and learning materials during the utilization of QR Codes during the utilization of QR codes were described by the participants as Very Good with an overall mean of 4.50. The safety of parents and teachers with a mean of 4.66 ranked 1 and was verbally interpreted as very good. The same verbal interpretation was given to other indicators such as the Process flow with a mean of 4.52 and ranked 2, contact tracing with a mean of 4.48 and ranked 3. Documentation of released learning materials and submitted outputs ranked 4 with a mean of 4.47 and the duration of the entire process ranked 5 with a mean of 4.36.

Comparing the results of from the data gathered, the participants described that the quality of the submission and retrieval of modules and learning materials before and during the utilization of QR Codes shows highly significant difference. All the indicators including Process flow with a t- stat value of 5.654, duration of the entire process with a t – stat of 5.032, contact tracing with a t- stat value of 5.619, documentation of released learning materials and submitted output with a t- stat value of 4.820 and the safety of parents and teachers with a t- stat value of 6.785 were described to have highly significant difference before and during the utilization of QR Codes for a safe, streamlined and systematic submission and retrieval of modules and learning materials.

Overall, the results of the data gathered shows the quality of the submission and retrieval of modules and

learner's output significantly improved with the utilization of QR Codes.

DISCUSSION

The results of the study show that the utilization of QR Code is effective in implementing streamlined, safe, and self – directed distribution and submission of modules and learning outputs. With proper and clear instruction and regular practice of the procedure, the teachers, parents, and other stakeholders can be assured of a safe workplace that is an important aspect of everyday activities to prevent the transmission of COVID 19 while ensuring that the Learning Continuity Plan is being implemented.

The current COVID 19 posed several risks in the society. The economic risk, health risk and the risk to educational opportunities are being experienced by everyone. Nevertheless, constant pursuit for innovation and solutions to these kinds of problems and hindrances must never stop. This research study is a proof that simple technology when applied to present problems may contribute to the solution and further studies for improvement.

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