



**DEVELOPMENT OF QR CODE IN ATTENDANCE MONITORING
ON THE DISTRIBUTION AND RETRIEVAL OF LEARNING
MATERIALS AMONG GRADE VI NEWTON PARENTS**

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CONTEXT AND RATIONALE

Pursuant DepEd Order no. 12, s.2020 titled of the Basic Education Learning Continuity Plan (BE-LCP) for School Year 2020-2021 in light of the Covid-19 Public Health Emergency, the school is tasked to include all the possible interventions to continuously provide quality education among learners with proper observance to health protocols. One of the focused matters is how the modules are to be distributed and retrieved. This has become a challenge to all school administrators and teachers. Different plans are prepared and laid down so that options are available if one will not work. In connection to this, teachers find problems on the best possible way to check and monitor the attendance of the parents during the distribution and retrieval schedule.

In every school program, project, and activity, attendance plays a significant role. It is one of the Means of Verification (MOV's) presented to justify that a certain event happens in the school. In the conduct of Modular Distance Learning (MDL), parents are instructed to get and

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return the modules of their children. And their attendance is monitored and checked by the teacher. However, printed attendance sheet where all parents write their names and signature is not that safe because it can cause virus transmission from one person to another. Also, this task lengthens the stay of parents in the classroom specially they need to ask teacher's guidance in writing the data needed.

Because of the researcher's concern, she formulated an intervention strategy that is safer, faster and easier to use in monitoring the attendance of the parents during the distribution and retrieval of the modules. This would be of great help not only to Grade 6 Newton parents but also to the entire Balayan East District.

ACTION RESEARCH QUESTIONS

1. What are the common practice of teachers in monitoring the attendance during the distribution and retrieval of learning materials among grade V1- Newton learners?
2. What are the problems encountered by the teachers in the monitoring of the attendance during the distribution and retrieval of the learning materials?
3. What innovation can be applied to address the problems in the monitoring of the attendance?
4. To what extent does QR Code Development help in the checking and monitoring of the attendance?

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Innovation, Intervention, and Strategy

Technology created huge impact in human lives. It has been more tested during the strike of Covid-19. Lot of digital software and applications appeared. Even the way of teaching is invaded by the unique features and presentation of online platforms.

During the distribution and retrieval of modules under Modular Distance Learning, writing on the attendance sheet and manual counting of signatures of attendees makes the procedure longer which is risky since they are to be exposed in others. Thus to make attendance checking and monitoring easier and faster, the intervention, Development of QR code in attendance monitoring on the distribution and retrieval of learning material, is conceptualized. It aims to help teachers to lessen their time talking and instructing parents on what to write in the attendance sheet. In QR code scheme, parents will just scan the code and in a second the data about parent and their appearance for the day is already available and recorded. Internet connection is not a problem since the school offers free connection during the scanning.

ACTION RESEARCH METHODS

Participants and/or other source of data information

The study aimed to introduce the effect of the development of QR code as attendance checking during distribution and retrieval of modules. The participants of the study were the 30

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parents of Grade 6 Newton. Since the researcher is the Grade 6 adviser, she opted to conduct the research in the said class and to be shared to other sections and grade levels once effective.

Data Gathering Method

Casual interview was conducted to hear the voice of the parents of Grade 6 Newton when it comes to attendance checking and monitoring. Also, a self-made questionnaire written both in English and Filipino was provided to them. To ensure that they read and analyzed the statements in the questionnaire, they were given 1 week to accomplish it and be submitted on the next distribution and retrieval day.

Before the survey conducted, permission from the principal was asked through a request letter. Once approved, the researcher sent a letter to parents informing them about the study she was about to conduct. Questionnaire was checked, validated and approved by the experts like principal, guidance teacher and master teacher. Corrections and suggestions given by the checkers must be applied.

Statistical Treatment of Data

The conducted study is a descriptive method under qualitative research. Using this, the parents' responses about their experiences in using attendance sheet and scanning QR code were compared and weighed. Describing the impact of the intervention, whether negative or positive was recorded. Through survey questionnaire, the researcher was able to get the common

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encounters of parents in attendance scheme. After which, their responses were tabulated. Likert scale was used as a ranking tool to weigh the responses of the parents. Once tallied, result was interpreted and analyzed.

Scale	Descriptive Meaning
3.01 - 5.0	Totally Agree
3.01- 4.0	Agree
2.01- 3.0	Disagree
1.0- 2.0	Totally Disagree

DISCUSSION OF RESULTS AND REFLECTION

TABLE 1

Common practices of Checking the Attendance

Practices	Weighted Mean	Rank
Printed Attendance	4.54	1
Google Sheet	1.05	3
Roll Call	2.25	2
Via messenger	1.04	4

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The table presented the common practices in checking the attendance of parents during the distribution and retrieval of modules. From the list, attendance via messenger ranked the least with a weighted mean of 1.04. This only implied that monitoring of the attendance using online platform was not normally used since there were parents and guardians who have poor internet connection and were not knowledgeable in using the gadget. It was followed by google sheet which meant that using it required technical know how to be able to operate it. However, printed material ranked 1 with a weighted mean of 4.54. This revealed that parents and teachers were used in using the traditional printed attendance. However, it is quite risky during the pandemic since parents signed on the same paper which could lead to the spread of the virus from one person to another.

TABLE 2

Problems encountered by the teacher and parent in attendance checking

Problems	Weighted Mean	Rank
Prolonging time of stay in the school	4.36	1
Not following social distancing	3.25	2
Using same pen and paper	2.25	3
Writing difficulty to elders	1.04	4

Based from the table, among the 4 problems encountered by the teacher and parents during the distribution and retrieval of the learning modules, statement 1 or prolonging time of

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stay in the school got the highest weighted mean, which is 4.36. This showed that since parents write their name and signature, long period of time was required to ensure that all the parents signed and was able to do the transaction. This resulted to other problems like social distancing was not practiced because other parents, same pen and paper were used. An easy transfer of virus was evident since Covid 19 is communicable disease. Also, elder's ability to write was a problem since there were guardians who did not have the capability to read and write which asked teacher's time and assistance.

With the idea of a faster transaction at school where parents were free from writing their names and signature, the use of QR code was effective. They did not need to use the same pen and paper. Individualized QR code was just scanned and their names and other information appeared in a split of time. QR code scanning was not just to impressed technologically but an additional safety measure against Covid 19.

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ACTION RESEARCH WORK PLAN AND TIMELINE

ACTIVITIES	WEEK 1	WEEKS 2-3	WEEKS 3-4	WEEK 5	WEEK 6	WEEK 7
1. Identifying problem						
2. Formulating introduction and rationale						
3. Crafting research questions						
4. Identifying research design and methodology						
5. Tallying and interpretation of responses						
6. Drafting results and discussion						
7. Drawing conclusions and writing the recommendation						
8. Finalizing the introduction, results and discussion, bibliography						
9. Encoding and polishing the entire paper and peer validation of the research output						
10. Submission of the completed research to the District Research Committee						

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End of Project	First Draft	Final Report
February	November 2020	March 2021

FINANCIAL REPORT

PARTICULARS	AMOUNT
QR code MATERIALS	2,000.00
INTERNET	500.00

Plans for Dissemination and Utilization

DISSEMINATION ACTIVITIES	October	November	December	January	February
Present the result to teachers and principal					
Conduct a SLAC about the result of the study					

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Roll-out the result to other section and Grade level					
Participate in District Research Compendium					



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REFERENCES

Smartphone Users Around the World – Statistics and Facts, <http://www.gulf.com/blog/smartphone/> visited on February 12, 2014

Jamil, T. ; Dept. of Electr. & Comput. Eng., Sultan Qaboos Univ., Al Khod, Oman, Automatic attendance recording system using mobile telephone , Telecommunications Forum (TELFOR), 2011 19th 1297 - 1299

Shehu, V. ; Contemporary Sci. & Technol., South East Eur. Univ., Tetovo, Macedonia ; Dika, A. , Using real time computer vision algorithms in automatic attendance management systems, Information Technology Interfaces (ITI), 2010 32nd International Conference on 397 – 402 [4]

Saraswat, Chitresh; Kumar, Amit, An Efficient Automatic Attendance System using Fingerprint Verification Technique. International Journal on Computer Science & Engineering . 2010, Vol. 2 Issue 2, p264-269

Qinghan Xiao ; Interdept. Biometrics Working Group, Gov. of Canada, ON ; Xue Dong Yang, A facial presence monitoring system for information security, Computational Intelligence in Biometrics: Theory, Algorithms, and Applications, 2009. CIB 2009. IEEE Workshop on, March 30 2009-April 2 2009 , 69 - 76

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Indoor Positioning: http://en.wikipedia.org/wiki/Indoor_positioning_system#cite_note-15 visited

on January 10, 2014

Location-based Sensor Fusion [https://www.abiresearch.com/research/product/1015686-location-](https://www.abiresearch.com/research/product/1015686-location-based-sensor-fusion-companies-tec/)

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