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Appendices

Appendix A: Networking: What and Why

A computer network means connecting of two or more computers together using a connectivity media such as cables, telephone lines, radio waves, satellites, or infrared light beams. In other words, computers linked to communicate and exchange information constitute a network. We could find the following three basic types of networks today [22]:

- Local Area Network (LAN)
- Metropolitan Area Network (MAN)
- Wide Area Network (WAN)

Local Area Network (LAN)

A Local Area Network (LAN) is a network that is confined to a relatively small geographic area. It is generally limited to a geographic area such as a computer lab, school, or building.

Metropolitan Area Network (MAN)

A Metropolitan Area Network (MAN) covers larger geographic areas (than a LAN), such as cities or districts. By interconnecting smaller networks within a large geographic area, information can easily be disseminated throughout the network.

Wide Area Network (WAN)

Wide Area Networks (WANs) connect larger geographic areas, such as provinces in Sri Lanka. Using a WAN, schools in the country can communicate each other instantly with least cost. To users, however, a WAN will not appear to be much different than a LAN or a MAN.

Connecting computers together to form a network and connecting schools to the Internet can multiply the educational value and impact of computers in schools. There

are a variety of methods available to form these different types of networks as given below [23]:

- Peer-to-Peer Networking
- Client/Server Networking
- Thin-Client/Server Networking

These different method could be applied depend on the resource available with in the schools and the purpose they intend to use.

There are advantages as well as disadvantage of installing networks in schools. These are briefly noted below:

Advantages of Installing a School Local Area Network

- Speed: Can share and transfer files and other things very fast
- Cost: Especially if use the network version of the Software. Sharing of equipment can also be taken into account.
- Security: Can better control the files and other stuffs.
- Centralized Software Management: Can centrally upgrade/update the software
- Resource Sharing: Can share the costly equipments and software easily
- Electronic Mail: This facility is available because of the network
- Flexible Access: People can access from anywhere at anytime (provided that the necessary setting are set)

Disadvantages of Installing a School Local Area Network

- Expensive to Install: Initial cost to install and setup a network will be very high
- Requires Administrative Time: Need careful handling of the system by a skilled professional (an Administrator)
- Maintenance: To keep the system up to date proper maintenance system must be established.

At a semantic level, the model of a network applies in several ways, from connectivity (networking computers) to fostering connections between schools, teachers and students (networking people). SchoolNets therefore also encourage the development

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of communities of practice and orient participants towards collaboration and co-operation.

Y.C. Cheng states that "with the advances in ICT and global networking, it is now much possible to establish an individually, locally and globally networked human and ICT environment for teacher learners to learn with/from mentors, peers, experts, scholars, other professionals, social leaders, various education and social agents, multiple sources of latest knowledge and resources in different parts of the local and international communities" [24].

Appendix B : Questionnaire

Questionnaire
SchoolNet: Impact on Learning and Teaching

Following questionnaire is designed to collect the information about the SchoolNet. As you know SchoolNet provides a novel Learning and Teaching Environment for everyone -students and teachers. This survey will focus to measure the impact made by SchoolNet into the Learning and Teaching in Sri Lanka Schools.

Please corporate with us to completing this Survey. We do not require your identity but your suggestions and ideas are highly appreciated.

Please mark with ✗ or ✓ on the relevant boxes/places and whenever required write the required details/information in the space provided.

Thanking you very much for your kind corporation.

Section A - Personal Details

1. Age වයස

2. Gender ස්ත්‍රී/පුරුෂ බව
   Male [ ] Female [ ]

3. Marital Status විවාහක අවිවාහක බව
   Bachelor [ ] Married [ ]

4. Highest Educational Qualification ලබා ඇති උසස්ම අධ්‍යාපන සුදුසුකම
   G.C.E. (O/L) [ ]   G.C.E. (A/L) [ ]   Degree [ ]   Post Graduate Degree/Dip. [ ]

5. Highest Professional Qualification ලබා ඇති උසස්ම වෘත්තීය සුදුසුකම
   Trained Teacher [ ]   Post Graduate Diploma in Education [ ]   Other [ ]

6. Present level of your knowledge in Computer uses
   පරිගණක භාවිතය පිළිබඳව දැනට ඔබ සතුව ඇති දැනුම කෙසේද ?
   No knowledge [ ]   Fair knowledge [ ]   Good knowledge [ ]   Excellent knowledge [ ]

7. Do you have a computer at your home?
   ඔබ නිවසේ පරිගණක යන්ත්‍රයක් තිබේද?
   Yes [ ]   No [ ]

8. Do you have an Internet connection at your home?
   ඔබ නිවසට අන්තර්ජාල පහසුකම් ලබාගෙන තිබේද?
   Yes [ ]   No [ ]

Section B- About Your School

9. District of your School
   ඔබ පාසල පිහිටි දිස්ත්‍රික්කය
   [ ]

10. Type of your School
    ඔබ පාසල අයත් කාණ්ඩය
    1AB [ ]   1C [ ]   2 [ ]   3 [ ]

11. Do you use computers to teach?
    ඔබ ඉගැන්වීම සඳහා පරිගණක භාවිතා කරන්නේද?
    Yes [ ]   No [ ]

12. Do you use your school's computers outside school hours?
    ඔබ පාසලේ පරිගණකයන් පාසල් වේලාවෙන් පසුව භාවිතා කරන්නේද?
    Yes [ ]   No [ ]   No, but I would like to [ ]

13. Do you use the Internet to get information by knowing the fact that Internet is a huge Library and mass information store which could access at anytime from anywhere? අසීමිත තොරතුරු ප්‍රමාණයක් අතිවිශාල පුස්තකාලයක් ලෙසින් රඳවාගෙන ඇති අන්තර්ජාලය, අපට අවශ්‍ය ඕනෑම තැනක සිට පහසුවෙන් තොරතුරු ලබා ගැනීම සඳහා භාවිතා කළ හැකි බව දන්නා ඔබ තොරතුරු ලබා ගැනීම සඳහා එය (අන්තර්ජාලය) භාවිතා කරන්නේද ?   Yes ☐   No ☐

14. Do you use Internet for Learning and Teaching? ඔබ ඉගෙනුම්-ඉගැන්වීම් ක්‍රියාවන් සඳහා අන්තර්ජාල පහසුකම් භාවිතා කරන්නේද   Yes ☐   No ☐

15. Did you receive any computer training from/through Ministry of Education? ඔබ අධ්‍යාපන අමාත්‍යාංශය මගින් පවත්වනු ලැබූ/මෙහෙයවූ පරිගණක පුහුණු පාඨමාලාවන් කිසිවකට සහභාගි වුයේද?
   Yes ☐   No ☐

16. How much is that training useful for your Learning and Teaching activities? උක්ත පාඨමාලාව/වන් ඔබට ඉගෙනුම්-ඉගැන්වීම් ක්‍රියාවන් සඳහා වැදගත් වූයේ කුමන ප්‍රමාණයකින්ද ?
   Highly Useful ☐   Useful ☐   No Idea ☐   Not Useful ☐   Highly Not Useful ☐

Section C - SchoolNet
This part assumes that your School is connected to the SchoolNet and Internet could be accessed from it. If not kindly answer only the possible questions in this section.
මෙම කොටසේදී, ඔබ පාසල SchoolNet ජාලය හා සම්බන්ධව ඇති බවත් ඒ හරහා අන්තර්ජාලයට පිවිසිය හැකි බවත් උපකල්පනය කෙරේ. එසේ නොවේ නම් ඔබට හැකි (අදාළ) කොටස් සඳහා පමණක් පිළිතුරු සපයන්න.

17. Do you use SchoolNet for your Learning and Teaching activities? ඔබ ඉගෙනුම්-ඉගැන්වීම් සඳහා SchoolNet ජාලය භාවිතා කරන්නේද?   Yes ☐   No ☐

18. Do you like to use the SchoolNet in your Learning and Teaching activities? ඔබ ඉගෙනුම්-ඉගැන්වීම් සඳහා SchoolNet ජාලය භාවිතා කිරීමට කැමැතිද?   Yes ☐   No ☐

Indicate the extent to which you agree with the following statements using the indicators given below.
පහත දක්වා ඇති කරුණු සම්බන්ධයෙන් ඔබගේ එකඟතාවය පහත මාන භාවිතා කරමින් සටහන් කරන්න

SA - Strongly Agree   A – Agree   NAD - Neither Agree Nor Disagree   D – Disagree   SD - Strongly Disagree
පූර්ණ ලෙස එකඟවෙමි   එකඟවෙමි   එකඟ වන්නේද නොවන්නේද නැත   එකඟ නොවෙමි   පූර්ණ ලෙස එකඟ නොවෙමි

No	Description / විස්තරය	SA	A	NAD	D	SD
19.	Instructions given in the SchoolNet is clear and informative. අවශ්‍ය කරන උපදෙස් පැහැදිලිව හා විස්තරාත්මකව SchoolNetහිදී ලබේ ඇත.					
20.	Required Information in the SchoolNet can find easily. අවශ්‍ය කරන තොරතුරු සොයා ගැනීම SchoolNetහිදී පහසුවෙන් තළ හැකිය.					
21.	Materials available in the SchoolNet are up to date. SchoolNetහි ඇතුළත් කොට ඇති තොරතුරු කාලීනය (නිතරම යාවත්කාල කරයි).					
22.	Presentation of the materials in the Schoolnet is attractive. Schoolnetහි තොරතුරු ප්‍රසන්න ආකාරයෙන් ඉදිරිපත් කර ඇත.					
23.	SchoolNet gives me sufficient materials to Learning and Teaching. ඉගෙනුම්-ඉගැන්වීම් ක්‍රියාවලියට ප්‍රමාණවත් තොරතුරු SchoolNetහි ඇතුළත්ව ඇත.					
24.	Materials available in SchoolNet can use to develop my Learning and Teaching skills. මාගේ ඉගෙනුම්-ඉගැන්වීම් ක්‍රියාවලිය වැඩි දියුණු කිරීමට SchoolNetහි ඇතුළත් කොට ඇති තොරතුරු/කරුණු උදව් කරගත හැකිය.					

No	Description / විස්තරය	SA	A	NAD	D	SD
25.	SchoolNet can use to teach the difficult parts of the subject in a more sophisticated manner. සංකීර්ණ විෂය කොටස් පහසුවෙන් කියාදීම සඳහා SchoolNet උදවි කර ගත හැකිය.					
26.	Teachers really like to use the SchoolNet in Learning and Teaching. ඉගෙනුම්-ඉගැන්වීම් ක්‍රියාවලිය සඳහා SchoolNet ජාලය භාවිතා කිරීමට ගුරුවරුන් විශේෂ කැමැත්තක් දක්වයි.					
27.	Students really like to use to SchoolNet in Learning. ඉගෙනුම් ක්‍රියාවලිය සඳහා SchoolNet ජාලය භාවිතා කිරීමට සිසුන් විශේෂ කැමැත්තක් දක්වයි					
28.	Since the Internet has the best things as well as the worst things in it. We should block/limit/filter the use of web contents through SchoolNet. අන්තර්ජාලය තුළ අත්‍යවශ්‍ය දේ මෙන්ම අනවශ්‍ය දේ ද ඇතුළත් ව හෙයින් SchoolNet ජාලයෙහි භාවිතයන් අවහිර කිරීම/සීමා කිරීම/පෙරීම කළ යුතුයි.					
29.	Speed of the SchoolNet connection is satisfactorily. SchoolNet ජාලයේ සම්බන්ධතා වේගය සතුටුදායක තත්ත්වයක ඇත.					
30.	Access of SchoolNet facilities are limited to only within the School time is acceptable. පාසල් කාල සීමාව තුළදී පමණක් SchoolNet ජාලය භාවිතා කළ හැකි වීමේ ගැටලුවක් නැත.					
31.	Support from the Authorities of the School to use the SchoolNet is satisfactorily. පාසල් පරිපාලනයෙන් SchoolNet ජාලය භාවිතා කිරීම සඳහා ලැබෙන සහයෝගය සතුටුදායක මට්ටමක පවතී.					
32.	SchoolNet can be used to improve the Learning-Teaching skills of teachers. ගුරුවරුන්ගේ ඉගෙනුම්-ඉගැන්වීම් කෞශල්‍යයන් වැඩි දියුණු කිරීම සඳහා SchoolNet ජාලය භාවිතා කළ හැකිය.					
33.	SchoolNet can be used to improve the learning abilities of students. සිසුන්ගේ ඉගෙනුම් හැකියාවන් වැඩි දියුණු කිරීම සඳහා SchoolNet ජාලය භාවිතා කළ හැකිය.					

34. Which medium/media you prefer to have the contents in SchoolNet (mark all applicable)
විෂය කරුණු ඉදිරිපත් කිරීම සඳහා SchoolNet ජාලයේ භාවිතා කළ යුතු මාධ්‍ය/මාධ්‍යයන් වනුයේ (අදාළ සියල්ල ලකුණු කරන්න

Sinhala [ ]   Tamil [ ]   English [ ]

How do you value the importance of the followings to have in SchoolNet.

SchoolNet ජාලයේ (වෙබ් අඩවියේ) පහත දෑ අඩංගු කිරීමේ වැදගත්කම ඔබ තක්සේරු කරන්නේ කෙසේද?

No	Description / විස්තරය	VU	U	N	NU
35.	Circulars issued by the Ministry of Education අධ්‍යාපන අමාත්‍යාංශය මගින් නිකුත් කරනු ලැබූ වෘත ලේඛයන්				
36.	Updated detailed Syllabuses නවතම විස්තරාත්මක විෂය නිර්දේශයන්				
37.	Relevant Text books (as e-books) අදාල පාඨ ග්‍රන්ථයන් (විද්‍යුත් පොත් ලෙසින්)				
38.	Additional reading materials than the text book contents පාඨ ග්‍රන්ථයන් ට අමතර වූ අතිරේක කියවීම් ද්‍රව්‍යයන්				
39.	Web links for relevant additional information sources අදාළ වන අතිරේක විස්තරයන් ඇති වෙබ් ලිපිනයන් / සම්බන්ධතාවයන්				
40.	E-learning contents that is useful for learning and teaching ඉගෙනුම්-ඉගැන්වීම් සඳහා ප්‍රයෝජනවත් වන විද්‍යුත් ඉගෙනුම්-ඉගැන්වීම් ද්‍රව්‍යයන්				
41.	Past Question papers පසුගිය ප්‍රශ්න පත්‍රයන්				
42.	Past Question papers with answers පසුගිය ප්‍රශ්න පත්‍රයන් පිළිතුරු ද සමඟින්				
43.	Marking schemes of the question paper පසුගිය ප්‍රශ්න පත්‍රයන්හි ලකුණු බෙදීමේ ක්‍රමෝපායයන්				
44.	Online quizzes for students සිසුන් සඳහා මාර්ගගත ප්‍රශ්නෝලිකා				
45.	Online quizzes for teachers ගුරුවරුන් සඳහා මාර්ගගත ප්‍රශ්නෝලිකා				

	VU - Very Useful ඉතාමත් වැදගත්	U – Useful වැදගත්	N –Neutral සාමාන්‍යයි	NU - Not Useful වැදගත් නොවේ			
46.	Forum to discuss among teachers ගුරුවරුන් අතර සාකච්ඡා පැවැත්වීම සඳහා වූ සාකච්ඡා මණ්ඩපයන්						
47.	Forum to discuss among students සිසුන් අතර සාකච්ඡා පැවැත්වීම සඳහා වූ සාකච්ඡා මණ්ඩපයන්						
48.	Forum to discuss between teachers and students සිසුන් සහ ගුරුවරුන් අතර සාකච්ඡා පැවැත්වීම සඳහා වූ සාකච්ඡා මණ්ඩපයන්						
49.	Facilities to keep track record of teachers' progress ගුරුවරුන්ගේ ප්‍රගතිය මත බැලීම සඳහා වූ උපක්‍රමයන්						
50.	Facilities to keep track record of students' progress සිසුන්ගේ ප්‍රගතිය මත බැලීම සඳහා වූ උපක්‍රමයන්						

51. Do you know that the SchoolNet has a Help Desk?
SchoolNet ජාලය තුල උදව් කිරීම සඳහා වූ සේවාවක් ඇති බව ඔබ   Yes [ ]   No [ ]
දන්නවාද ?

	VU - Very Useful ඉතාමත් වැදගත්	U – Useful වැදගත්	N –Neutral සාමාන්‍යයි	NU - Not Useful වැදගත් නොවේ				
					VU	U	N	NU
52.	How do you value the importance to have a HelpDesk service in SchoolNet. උදව් කිරීම සඳහා වූ සේවාවක් SchoolNet ජාලයේ තිබීමේ වැදගත්කම ඔබ තක්සේරු කරන්නේ කෙසේද?							

53. What features do you like to have in SchoolNet Help Desk?
SchoolNet ජාලයේ වූ උදව් කිරීමේ සේවාව තුලින් ඔබ බලාපොරොත්තුවන සේවාවන් මොනවාද?

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54. If you have more to say about SchoolNet, please write them here.
SchoolNet ජාලය සම්බන්ධයෙන් ඔබට සඳහන් කලයුතු වැඩි විස්තරයන් ඇත්නම් ඒවා මෙහි සඳහන් කරන්න.

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Thanking you very much for spending your valuable time to complete this questionnaire.

Withanage Chaminda Priyashantha

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