**Implementing Cross-Enterprise Document Sharing (XDS)**

**based on Blockchain Technology**

Subtitle as needed

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# Introduction

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# LITERATURES REVIEW

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## Exchange Health Information Not included in Thesis yet

(Mention how healthcare organization currently exchange patient data and limit of the method)

## Integrating the Healthcare Enterprise (IHE), IHE Profiles, and Cross-Enterprise Document Sharing (XDS)

(Mention about IHE and their standard)The template is used to format your paper and style the text. All margins, column widths, line spaces, and text fonts are prescribed; please do not alter them. You may note peculiarities. For example, the head margin in this template measures proportionately more than is customary. This measurement and others are deliberate, using specifications that anticipate your paper as one part of the entire proceedings, and not as an independent document. Please do not revise any of the current designations.

## Blockchain Technology

(Small mention on Blockchain and its core properties)

## Ethereum

(Little mention about Ethereum and smartcontract)

## Health Information Privacy Not included in Thesis yet

(Note important role of privacy for health information and refer HIPAA rules about how to handle sensitive health information)

## Related Work

(Small review on 3 related works: Mayo-Clinic, MedRec, and one other)

# Method

## Architecture Design

(Overview of concept, our proposal on implementing Blockchain into XDS network)

## Blockchain Design

(How we implement Blockchain to suit our work)

## Design of XDS.b profile integrated with Blockchain

(This mention some more essential design that needed for Blockchain to be compatible with XDS)

# IMPLEMENTATION

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## XDS Toolkit This may need change as we may replace transaction sample with the one we created

(Mention about creating or retrieving XDS transaction samples for system test) Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

## Blockchain Setup for Implementation

* (Ethereum, Quorum Blockchain Setup and preparation of Blockchain environment) Use either SI (MKS) or CGS as primary units. (SI units are encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as “3.5-inch disk drive”.
* (Mention about consensus we use, which is IBFT)

## XDS Document Registry Actor

(Mention about other component between each XDS actors and Blockchain platform)The equations are an exception to the prescribed specifications of this template. You will need to determine whether or not your equation should be typed using either the Times New Roman or the Symbol font (please no other font). To create multileveled equations, it may be necessary to treat the equation as a graphic and insert it into the text after your paper is styled.

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 

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## Document Registry Smart Contract

* (Mention how smartcontract was implemented for this work) The word “data” is plural, not singular.
* The subscript for the permeability of vacuum **0, and other common scientific constants, is zero with subscript formatting, not a lowercase letter “o”.

## Registry search, Process Flow, and User Interaction Not included in Thesis yet

(Explain concept of Search program, and the whole process until registry reached users)

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Component heads identify the different components of your paper and are not topically subordinate to each other. Examples include Acknowledgments and References and, for these, the correct style to use is “Heading 5”. Use “figure caption” for your Figure captions, and “table head” for your table title. Run-in heads, such as “Abstract”, will require you to apply a style (in this case, italic) in addition to the style provided by the drop down menu to differentiate the head from the text.

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| Table Head | Table Column Head | | |
| --- | --- | --- | --- |
| Table column subhead | Subhead | Subhead |
| copy | More table copya |  |  |

a. Sample of a Table footnote. (Table footnote)

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Please see last page of this document for AN EXAMPLE of a 2-COLUMN Figure.

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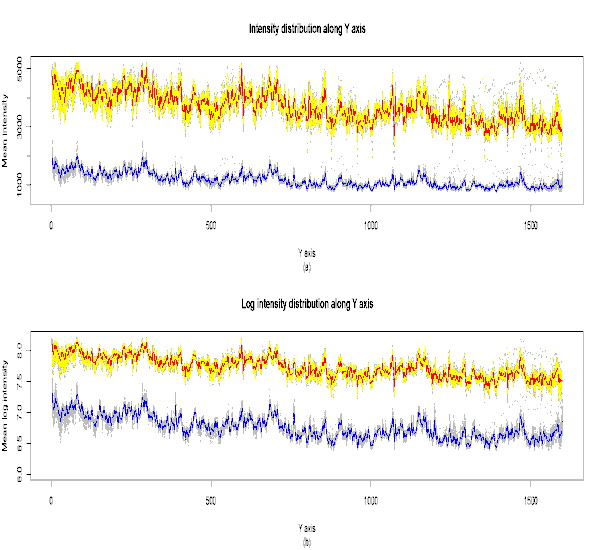
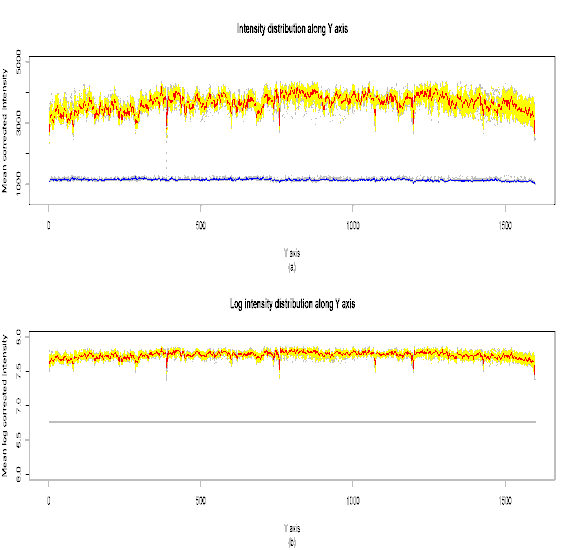
1. G. Eason, B. Noble, and I. N. Sneddon, “On certain integrals of Lipschitz-Hankel type involving products of Bessel functions,” Phil. Trans. Roy. Soc. London, vol. A247, pp. 529–551, April 1955. *(references)*
2. J. Clerk Maxwell, A Treatise on Electricity and Magnetism, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68–73.
3. I. S. Jacobs and C. P. Bean, “Fine particles, thin films and exchange anisotropy,” in Magnetism, vol. III, G. T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271–350.
4. K. Elissa, “Title of paper if known,” unpublished.
5. R. Nicole, “Title of paper with only first word capitalized,” J. Name Stand. Abbrev., in press.
6. Y. Yorozu, M. Hirano, K. Oka, and Y. Tagawa, “Electron spectroscopy studies on magneto-optical media and plastic substrate interface,” IEEE Transl. J. Magn. Japan, vol. 2, pp. 740–741, August 1987 [Digests 9th Annual Conf. Magnetics Japan, p. 301, 1982].
7. M. Young, The Technical Writer’s Handbook. Mill Valley, CA: University Science, 1989.
8. Electronic Publication: Digital Object Identifiers (DOIs):

Article in a journal:

1. D. Kornack and P. Rakic, “Cell Proliferation without Neurogenesis in Adult Primate Neocortex,” Science, vol. 294, Dec. 2001, pp. 2127-2130, doi:10.1126/science.1065467.

Article in a conference proceedings:

1. H. Goto, Y. Hasegawa, and M. Tanaka, “Efficient Scheduling Focusing on the Duality of MPL Representatives,” Proc. IEEE Symp. Computational Intelligence in Scheduling (SCIS 07), IEEE Press, Dec. 2007, pp. 57-64, doi:10.1109/SCIS.2007.357670.

1. Example of a TWO-COLUMN figure caption: (a) this is the format for referencing parts of a figure.