7. Conclusion

CourseEditor is designed to utilize the existing technical skills of the average teachers to create learning content for web. Although CourseEditor is not intended to be a replacement for the commercial HTML authoring tools existing today, it complements HTML editors by offering rapid, fully automatic conversion from MS Word documents to HTML format.

As discussed in the previous chapters, this open source tool meets the following initial objectives of the research:

- Foster the use of MathML in web by publishing the MathML content in web pages
- Allow non technical users to easily create web content using their existing IT skills and knowledge
- Publish the MathML content in a browser-neutral way to reach a larger audience (cross browser support).
- Compliance to the SCORM specification and guidelines. So the generated course content can be easily shared among different LMSs.
- Create the content offline, allowing the authors who don’t have Internet connectivity or low bandwidth limitations to generate course content in a standard way.

The generated web content is in compliance with the XHTML and MathML specifications and the guidelines by W3C. It also follows the SCORM 1.2 standards and guidelines by ADL.

The existing implementation does not support all the MS Word document formats. As explained in section 5.4.5, OpenXML2XHTML.xsl has the functionality implemented for the most essential features of MS Word 2007. Including more MS Word features like image handling, hyperlinks and cross referencing can be considered as the future enhancements for this tool.
Further, CourseEditor to be a more capable web authoring tool, pluggable modules for interactive course content like self test questions, streaming audio and video, flash cards can be implemented in the future. Local language support is another enhancement that can be advantage for teachers in creating learning content.

SCORM 1.3 (SCORM 2004) compliance along with the SCORM packaging functionality is another additional feature to be implemented in CourseEditor.