Abstract

As an *e-learning* application, Learning Management System (LMS) tends to facilitate the needs of institutions more where the *tools* and learning content is predefined by the teacher or the institution, as well as stored and managed centrally. As the result, students are not flexible enough to manage their own learning environment also to collaborate and share *knowledge* with other students. This limitation can be handled via the concept of Personal Learning Environment (PLE) that supports students to construct their own learning environment and supports collaboration and *sharing knowledge* with other students without being tied to an institution. This research is intended to apply the PLE concept into the LMS by building an application that supports the concept of PLE then integrate it with LMS. This allows students to build their own PLE through the LMS so that the number of new things to be learned can be reduced. At the end of the study an expert evaluation is carried out to determine the quality of the application based on the technical and aesthetic aspects, ease of navigation, tutorial or help program, as well as the quality of the application to build a PLE. According to the expert evaluation, the last two aspects is valued as "positive".

Keyword: learning management system, personal learning environment, expert evaluation