

A Note-Taking Data Sharing System for Improving Student's Performance as a New Perspective of Digital Libraries

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The practice of annotating university textbooks with a pen or pencil by students is perhaps the most familiar illustration of active reading. They scribble comments in the margin, highlight elements, underline words and phrases, and correlate distinct parts to foster critical thinking. Many studies or projects involving in-class and online educational technology include note-taking or annotation applications. When students read textbooks in the classroom, they usually apply active reading. However, the annotation and note-taking features of digital textbooks in existence are not sufficient for active learning in the classroom.

A note-taking data sharing system for improving student's performance was developed and actually used in the classrooms. The students who wrote a lot of comments into their digital textbooks tended to receive a higher grade at the end of the course, and also the average number of comments per student within a group achieving the same grade during each lecture had a positive relation in most lectures of the course with their grades in the course. These findings suggest that if both teacher and students can access data about comments that students wrote into digital textbooks just after each lecture, they may use it for improving student's performance at the next lecture in their own way. Therefore, the note-taking data sharing system which was designed for improving student's performance furnishes the data about comments to both teacher and students just after each lecture. With the growth of digital environment, the note-taking data sharing system has a significant role to play an important part in the development of digital library.