

Basil room
2.00-2.25pm

An interactive online portal for analyzing educational data

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Learning management systems, such as the Integrated Virtual Learning Environment (IVLE; <https://ivle.nus.edu.sg/>)¹ at the National University of Singapore, are becoming increasingly powerful in tracking students' behaviour and they are able to generate large amounts of data. For example, if a lecturer produces a video lecture and makes it available to students, it is now possible to know which students watched it, at what time of the day, for how long and how many times. Without a convenient tool, processing these raw data can be daunting for the educator.

We have developed a web application that processes IVLE data according to the educator's preference. Following the example above, the software quickly deduces how many students watched the video at least once (i.e., eliminating double hits), and how many watched it before or after a certain date. This is particularly important and relevant for flipped classrooms, where the educator often expects students to interact with certain resources before attending a face-to-face session.

Note

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¹ The application we developed is based on analysing certain IVLE data. NUS will be phasing out IVLE in 2018, to be completely replaced by a new learning management system called LumiNUS (<https://wiki.nus.edu.sg/display/luminus/Home>). This obviously makes our application already obsolete. Nevertheless, it is our hope that adapting the code to the LumiNUS API will not be too difficult.

