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Journal of Physics: Conference Series • Open Access • Volume 978, Issue 1 • 16 March 2018 • Article number 012005 • 2nd International Conference on Computing and Applied Informatics 2017, ICCAI 2017 • Medan • 28 November 2017through 30 November 2017 • Code 135467

Document type

Conference Paper • Bronze Open Access

Source type

Conference Proceedings

ISSN

17426588

DOI

10.1088/1742-6596/978/1/012005

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# Designing indonesian teacher engagement index (itei) applications based on android

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Teachers who have a good level of engagement will be able to produce students who engage and excel. Level of national teachers' engagement needs to be a reference to the level of educational success and equity of national education. The spread of geographically inaccessible Indonesian teachers is a barrier

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to these measurements. ITEI Android application developed by analysing the geographical problem, so that each teacher can participate wherever they are. The ITEI app is designed by implementing Android on the client side and load balancer on the server side. Android ITEI will feature a number of questions questionnaire to teachers. Meanwhile, the load balancer will distribute the answers to each server for processing. Load Balancer ensures fast data processing and minimize server failure. The results of the processing on the server will be sent back to Android in the form of profiling themselves ITEI teachers. While the data obtained and stored in the server can be used to measure the level of national teachers' engagement. The result of this research is the design of ITEI application ready to be implemented in order to support the data collection process of teacher national engagement level. © Published under licence by IOP Publishing Ltd.

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