Implementation of Microservice Technology on Mobile Learning Development

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 182
Number 23

Year of Publication: 2018

Authors:
Maksy Sendiang, Jerry H. Purnama

10.5120/ijca2018918013

Abstract

Software development using microservice has many advantages over conventional technology. The short number of comprehension and applied examples of microservice technology have caused the software developed using this technology is confined. This research aims to apply microservice technology in the development of mobile learning (MLearning). Implementation of microservice will break the application into stand-alone entities and isolated with others. Thus failure in an entity will not effect the application as a whole system. This research using a mixture of quantitative and qualitative methods in collecting and analyzing data. The data obtained is modeled with an object-oriented approach by used Unified Modelling Language tool (UML). RUP method as one of software development method that gives focus to software architecture is used to develop the MLearning. By this research expected a MLearning is produced using microservice technology. It is expected this MLearning will improve the quality of education in Manado State Vocational High School. The conclusion of this research is that the development of MLearning with microservice technology will form a robust application that gives a positive impact on teaching and learning process at Manado State Vocational High
References


6. Qiaoli Chen, Department Of engineering working software teaching and research Shaanxi Institute of technology Xi’an China, "Compare and study about owing to the three kinds important softwares develop process ", international Conference on Education Technology and Economic Management (ICETEM), 2015.


Index Terms

Computer Science

Information Sciences

Keywords

Microservice, mLearning, entity, UML, RUP