Abstract No: 11

# Online Continuous Assessment System for Technical Colleges in Sri Lanka using UML

Vindya Niroshanie[1], Gamini Wijayarathna[2*]
*1. Sri Lanka Technical Education Service, Technical College, Ratmalana, Sri Lanka*
*2. Faculty of Computing, University of Kelaniya, Kelaniya, Sri Lanka*
*vindya.niroshanie@gmail.com*

*\*Corresponding author: gamini@kln.ac.lk*

## ABSTRACT

The research in this paper discusses the issues relevant to an existing manual assessment system, [1] and aims the development of conceptual model for online continuous assessments system. This was achieved by using Object-oriented approach and unified modelling language (UML). The functional and dynamic views of the system are presented and explained within this framework. Although above framework is used, since Structured Systems Analysis & Design Method (SSADM) provides a standard set of activities which cover the analysis and outline design stages of a system development project, Ccontext diagram [2] also was included in SSADM. The functional system includes use case diagrams and Activity diagrams, while the dynamic view includes state machine diagrams. Therefore, the proposed models are used to efficient implementation of Online Continuous Assessment System.

**Keywords:** *Online MCQ Assessment, Unified Modelling Language, Behavioural Models, Functional Models, Covid-19 pandemic and education.*

## REFERENCE

[1] L. Ali and N. A. H. H. A. Dmour, "The Shift to Online Assessment Due to COVID-19," *International Journal of Information and Education Technology*, vol. 11, pp. 220–229, May *2021*.

[2] J. Software, "Defining Project Scope: Context and Use Case Diagrams," *Jama Software*, Sep. 24, 2019.