Configurable Framework for Smart Serious Gaming Analytics

Technology Overview

The smart serious gaming analytics engine is utilised to understand and enhance learner's skills and performance. It captures the in-game actions and decisions made during the game play to analyse learner's behaviour. It leverages on artificial intelligence/machine learning (AI/ML) technologies to identify learning patterns, and provides a personalised learning strategy [e.g. recommend topic(s) for the learner to focus on]. This innovative engine can be extended easily to other subjects/modules without changing any codes.
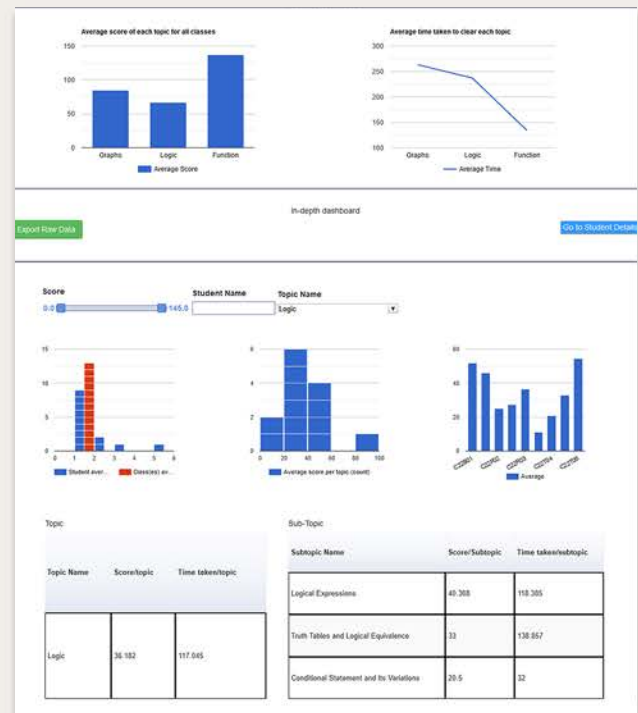
Features & Specifications

The unique features of this technology are that it is:

- Configurable – can be used for different subjects without modification.
- Scalable – can be used for more than one subject concurrently without changing any codes.
- Informative – can provide important learning insights about learners.

The technology has four key components:

- Data collection engine
- Learning analytics engine
- Learning analytics and visualisation
- Personalised learning strategy recommendation engine

Customer Benefits

- Learners benefit from personalised, interactive learning with self-assessment.
- Instructors benefit from visual insight of learner learning patterns and experience to help learners understand better.
- Management obtains indicators of learner's learning journey to help policy and decision-making.

Potential Applications

This technology can be applied in:
- Serious game companies
- Learning institutions