

## A Web-Based Management and Self-Learning System for Sakura Kai Karate Club

EDSD Dhanuge<sup>1#</sup> and N Wedasinghe<sup>1</sup>

<sup>1</sup>Faculty of Computing, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka

<sup>#</sup>37-it-0033@kdu.ac.lk

### Abstract

It is crucial to understand the significance of information technology for the karate field. The research conducts a thorough investigation for the creation of a management and self-learning system specifically designed for the Sakura Kai Karate Club. There are a few problems with manual club management and member participation which suggests a need for a technological solution. Currently, administrative processes such as schedule management, fee management, grading test management, tournament management and inventory management are conducted manually which are time and cost-consuming. The primary objective of the research is to address the problems aforesaid and to introduce a comprehensive self-learning module, providing members with access to instructional videos, theory materials, and grade-specific assessments. This study employs two methodologies, combining insights gathered from interviews with club instructors and a survey of club members. After analysing data from these diverse sources, the research aims to get a better understanding of the challenges faced in administrative tasks, communication, and learning experiences within the club. The findings underscore the need for technological intervention to address the problems of manual administrative processes. Key challenges identified include manual handling of administrative tasks, learning experience and communication gaps within the club. By harnessing information technology, the study contributes to the broader discourse on tailored solutions for the specific needs of club instructors and members, ultimately enhancing the overall club experience. The study focuses not only on solving current issues but also on establishing a framework for further improvements.

**Keywords:** *Karate, Management, Self-learning*