



6COSC023C – Final Year Project Report

**Workopolis - Work from home - Attendance  
management monitoring platform for  
Expolanka Holdings PLC**

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## **Abstract**

Expolanka Holdings is a Sri Lanka-based global diversified conglomerate. Logistics, leisure, and investments are among the group's specialties. Expolanka companies are known for challenging the status quo with a global vision and strategic growth plan that puts the group at the forefront of driving innovation, growth, and change in every aspect of business – a winning formula that has earned Expo a market leadership position in all three sectors. Despite the use of advanced human resources attendance systems, the industry continues to rely on manual data entry and data collection methods due to a lack of access to real-time data from employees working from home. As a result of incorrect manual attendance data entry during the attendance process, as well as human error caused by manual data entry, the industry has experienced a variety of productivity management and payroll issues. Furthermore, the human resource department keeps track of their attendance using a manual attendance entry system, putting the data at risk of being tampered with by employees.

Based on the problem context, the project aims to analyze the current manual work from home attendance system in order to address the productivity issues faced by Expolanka Holdings PLC's human resource department and employees in managing the data records of employees working from home for attendance management. A literature review was conducted to learn more about the existing solutions and technologies already in use in the sector. Findings were reviewed through a survey and interviews performed among employees of the firm and human resource digital transformation specialist, mainly handling the system in order to suggest a successful solution.

The results of the evaluation pointed to the necessity for a work-from-home attendance management system that could meet all of the productivity needs. The development of a work from home attendance platform was identified as a way to eliminate all inconsistencies in tracking real-time attendance of employees working remotely on a single platform. As a result, Workopolis - Work from home - Attendance management monitoring platform for Expolanka Holdings PLC was created, which includes blockchain to store user events, a web application to track productive work hours of employees working from home, which includes features like monitoring tasks, mouse and keyboard density. Human resource departments will be able to eliminate manual work on work from home employees, become more responsible, and become more efficient.