The Sustainable E-traceability system for exportable fruits and vegetables of Bangladesh

Project Overview

Bangladesh's agricultural sector, particularly the fruit and vegetable industry, holds significant potential for export growth. However, challenges such as manual record-keeping, lack of traceability, and limited transparency hinder the sector's development. To address these issues, a comprehensive E-traceability solution is proposed.

The solution aims to digitize the entire value chain, from farm to fork, by utilizing mobile apps and web-based platforms. Key features include farmer and farm profiling, input distribution tracking, harvest recording, procurement management, product transfer tracking, processing and packaging, and traceability through QR codes. By implementing this system, Bangladesh can enhance food safety, improve supply chain efficiency, and gain greater market access for its agricultural products.

The proposed solution offers numerous benefits, including increased transparency, reduced food waste, improved quality control, and enhanced consumer trust. By adopting this innovative solution, Bangladesh can position itself as a reliable and sustainable supplier of high-quality fruits and vegetables to international markets.