An Abstract
On

Green QR: Smart Tree Information System

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Green QR: Smart Tree Information System

ABSTRACT

The Green QR: Smart Tree Information System is an innovative and secure platform designed to provide structured and authenticated information about trees using uniquely generated QR codes. Each tree is assigned a secure QR code that cannot be opened by external QR scanner applications. Only the official Green QR mobile app can read and decode the information, ensuring complete data protection and preventing unauthorized access.

When the QR code is scanned inside the mobile app, the system displays detailed information about the tree, including its name, species type, botanical description, medicinal uses, advantages, disadvantages, plantation date, and the person or authority who planted or recognized it. The backend system stores all tree data in a well-organized database, while the app communicates with a secure API to retrieve accurate information instantly.

This project aims to support environmental awareness by creating a smart, digital method for monitoring and documenting trees in campuses, parks, and public gardens. By combining encrypted QR technology with a restricted-access mobile application, Green QR provides an eco-friendly, modern, and user-centric approach to understanding and preserving green ecosystems.

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