



**AMAL JYOTHI**  
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**A U T O N O M O U S**  
KANJIRAPPALLY

# GROWGUIDE

## 20INMCA310 - Mini Project

### Scrum Master

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# ABSTRACT

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GrowGuide: Cardamom Plantation Fertilizer Recommendation System is an innovative web-based solution designed to empower cardamom farmers with tailored agricultural guidance. This website leverages modern technology to analyze soil quality and real-time weather conditions, providing precise fertilizer and pesticide recommendations to optimize crop yield and quality. GrowGuide also enables farmers to track and manage their agricultural practices by marking essential dates for applying fertilizers, pesticides, watering, and mulching. Developed using PHP, JavaScript, CSS, and HTML, GrowGuide ensures an intuitive and responsive user experience. The system is structured with three key user roles: administrators, employees, and farmers. Administrators oversee system operations, ensuring smooth functionality and data accuracy. Employees handle data entry and verification, ensuring reliable recommendations. Farmers, the primary users, input soil and environmental data and retrieve actionable insights to enhance their farming practices. By combining scientific analysis with user-friendly interfaces, GrowGuide bridges the gap between traditional farming practices and modern agricultural technologies, enabling sustainable and efficient cardamom cultivation.

