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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



**A MINI PROJECT REPORT ON
FARM MANAGEMENT APP**

Submitted By

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Under the Guidance of

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOODBIDRI-574225, KARNATAKA**

2023-2024

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MIJAR, MOODBIDRI D.K. -574225

KARNATAKA



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that, the Mini Project entitled “**FARM MANAGEMENT APP**” for the subject **Mini Project** with subject code **21CSMP67** has been successfully completed and report submitted by **Ankitha Anand Joshi (4AL21CS022)** during the academic year 2023–2024. It is certified that all corrections/suggestions indicated presentation session have been incorporated in the report and scored

79

____ Marks out of

100 and deposited in the departmental library.

A handwritten signature in black ink, appearing to read "Deeksha M", is written over a horizontal line.

Mrs. Deeksha M

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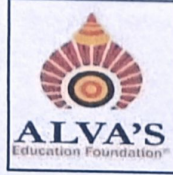
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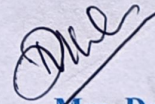
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This is to certify that, the Mini Project entitled “**FARM MANAGEMENT APP**” for the subject **Mini Project** with subject code **21CSMP67** has been successfully completed and report submitted by **Archana G Hublikar (4AL22CS401)** during the academic year 2023–2024. It is certified that all corrections/suggestions indicated presentation session have been incorporated in the report and scored

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ABSTRACT

This Farm Management System is designed to streamline and optimize agricultural operations through a comprehensive digital platform. The system features three distinct login roles: User, Employee, and Admin, each tailored to meet the specific needs and responsibilities within the farming ecosystem. Users, typically farmers, can access detailed information about their plants, including plant species, growth stages, required medications, and soil quality. This enables them to make informed decisions to enhance crop health and yield. Employees have access to the same plant and soil information as users but with additional capabilities. They can add new plant species, document innovative farming methods, and contribute to the system's growing knowledge base. Furthermore, employees can view their salary details, fostering transparency and motivation within the workforce. Administrators hold the highest level of access and control within the system. They can add, delete, and update all aspects of the system, including plant details, medication protocols, soil quality data, employee records, and user information. This role ensures the system remains accurate, up-to-date, and fully functional. The Farm Management System is designed to enhance efficiency, improve decision-making, and foster collaboration among all stakeholders in the farming process. By centralizing critical agricultural data and providing role-specific functionalities, the system supports sustainable farming practices and boosts overall productivity.

The Farm Management System is designed to enhance efficiency, improve decision-making, and foster collaboration among all stakeholders in the farming process. By centralizing critical agricultural data and providing role-specific functionalities, the system supports sustainable farming practices and boosts overall productivity. Additionally, the system includes advanced features such as real-time monitoring of soil and plant conditions, automated reminders for medication schedules, and analytical tools to predict crop performance based on historical data. The integration of these features helps in anticipating and mitigating potential issues, ensuring a proactive approach to farm management. Overall, this digital platform not only simplifies the management of farm operations but also contributes significantly to the sustainability and profitability of agricultural practices.