

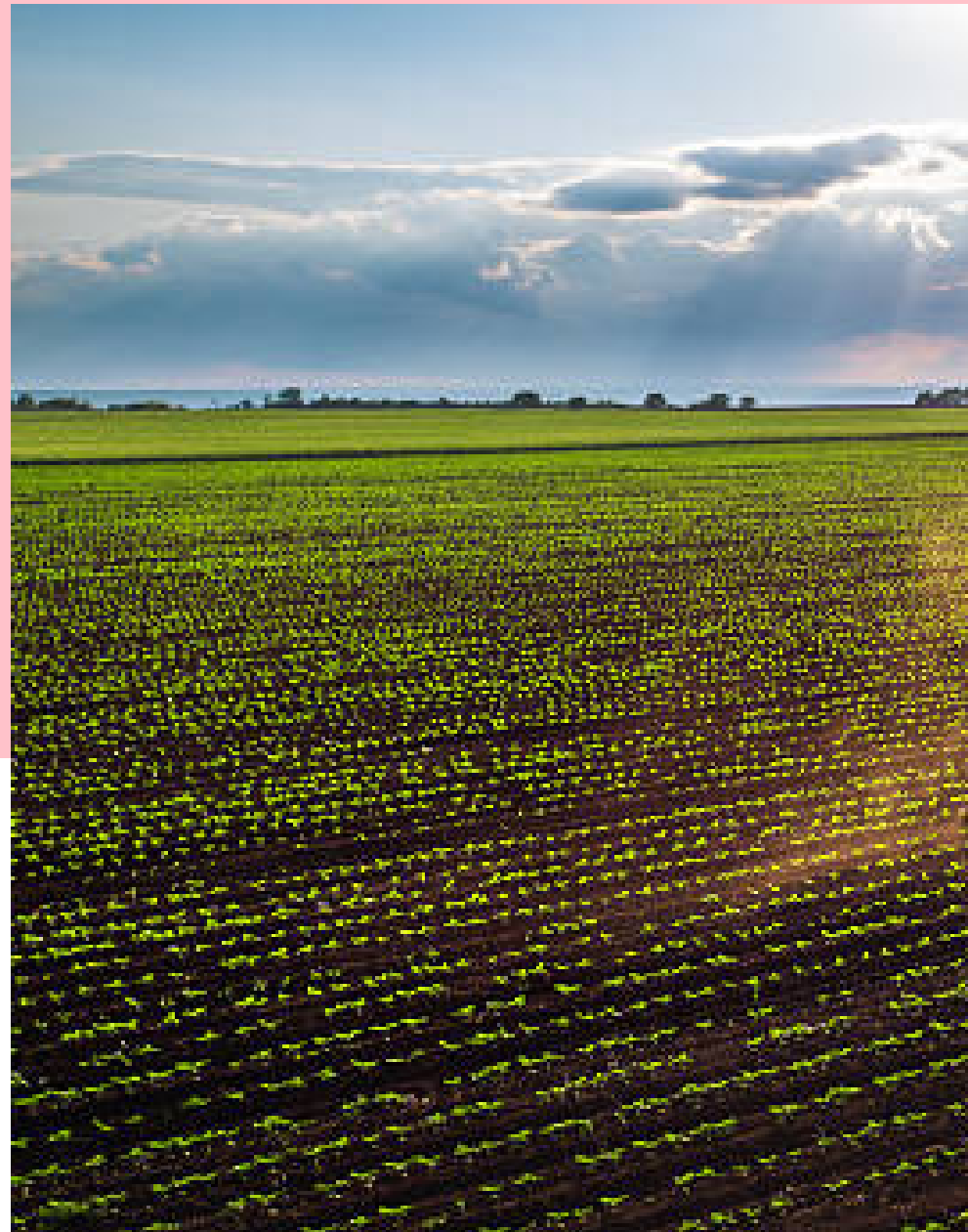
FARM MANAGEMENT SYSTEM

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28 October 2024

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WHY NEEDED?



The agriculture sector plays a crucial role in the economy and sustains the livelihoods of millions globally. However, modern challenges such as climate variability, resource scarcity, and market fluctuations require innovative solutions to manage farm operations effectively.

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Problem Statement

Farmers face various challenges in managing day-to-day farm operations efficiently. Manual management methods can lead to errors, inefficiency, and a lack of visibility over key farm metrics. Additionally, farms need a centralized platform to handle operational data, track resource usage, and streamline processes. The lack of a digital solution often limits farmers' ability to make informed decisions, affecting crop yield, financial planning, and sustainability.

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AGENDA

Farm Management System (FMS) is designed to address these challenges by providing digital tools for better decision-making and optimizing resource allocation. By leveraging technology, such systems support farm operations in areas like crop planning, inventory management, resource tracking, and financial management, which can lead to increased productivity and profitability.

IMPLEMENTATION

Frontend Development

- HTML, CSS, and JavaScript frameworks to provide a user-friendly experience.

Backend Development


- Using a server-side language (e.g., Python with Flask), CRUD operations on livestock, and farmer data.

Database Setup

- Using MySQL database for various entities, including Farmers, Farms, and Farm Operations.

Farmers Management System

[Home](#)[Farmer Register](#)[Farmer Details](#)[Sell Agro Products](#)[Agro Products](#)[Records](#)




Empowering Farmers with Technology

About Our System


The Farm Management System helps streamline farming activities by connecting farmers, managing farm products, and selling agricultural products. Our system provides a seamless solution for managing farm data, making it easier for farmers to grow their business.

Our Services



Farmer Registration

Easily register and manage farmer information with our intuitive registration system.



Sell Agro Products

Farmers can list and sell their agricultural products through our marketplace with ease.

FARMER REGISTRATION AND DETAILS

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Farm Management System

[Home](#)[Farmer Register](#)[Farmer Details](#)[Sell Agro Products](#)[Agro Products](#)[Records](#)

Farmer Registration

Farmer Name:

Aadhaar Number:

Phone Number:

Type of Farming:

Address:

Register

Farm Management System

[Home](#)[Farmer Register](#)[Farmer Details](#)[Sell Agro Products](#)[Agro Products](#)[Records](#)

Registered Farmers

<div>sathya1</div> <div>Aadhaar: 76356563768</div> <div>Type: seeding</div> <div>Address: tirupati</div> <div>phone: 898878733</div> <div>UpdateDelete</div>
<div>kushi</div> <div>Aadhaar: 238489374346</div> <div>Type: seeding</div> <div>Address: coimbatore</div> <div>phone: 98457586</div> <div>UpdateDelete</div>

SELLING AGRO PRODUCTS AND DISPLAY

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Farm Management System

[Home](#)[Farmer Register](#)[Farmer Details](#)[Sell Agro Products](#)[Agro Products](#)[Records](#)

Sell Agro Products

Product Name:

Description:

Price:

Your Email:

Sell Product

Farm Management System

[Home](#)[Farmer Register](#)[Farmer Details](#)[Sell Agro Products](#)[Agro Products](#)[Records](#)

Available Agro Products

<div><div>cotton</div><div>quality</div><div>Price: ₹938587.00</div><div>Contact: test@gmail.com</div></div>	<div><div>cotton</div><div>rthfbhfgb</div><div>Price: ₹45.00</div><div>Contact: sathya@gmail.com</div></div>
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TIGGERS FOR FARMERS REGISTRATION, UPDATION AND DELETE

Farmers Management System				
Home	Farmer Register	Farmer Details	Sell Agro Products	Agro Products
Records				
Records of Farmer Registrations and Deletions				
Name	Aadhaar	Phone	Action	Timestamp
sathya1	76356563768	898878733	Updated	2024-10-26 21:43:24
sathya	238489374346	03746734636	Registered	2024-10-26 21:42:26
jay	8766554399	98978767	Registered	2024-10-23 13:09:30
sathya	938458784	4985847657	Updated	2024-10-23 11:02:21
tsathya	8748327543	2837583475	Updated	2024-10-23 11:01:09
prathika	989786767	877867565	Deleted	2024-10-23 10:09:56
prathika	989786767	877867565	Registered	2024-10-23 10:06:46
kushi	238489374346	98457586	Registered	2024-10-23 10:03:26
kushi	9897856476	98457586	Registered	2024-10-23 08:42:06

MYSQL DATABASE

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15 • `select * from farmer;`

Result Grid | Filter Rows: | Edit: | Export/Import:

	id	name	aadhaar	phone	farming_type	address
▶	2	sathya1	76356563768	898878733	seeding	tirupati
	4	kushi	238489374346	98457586	seeding	coimbatore
	6	jay	8766554399	98978767	horticulture	chennai
	7	sathya	238489374346	03746734636	cotton	tirupati
*	NULL	NULL	NULL	NULL	NULL	NULL

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48 • `select * from farmer_records;`

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Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

	id	name	aadhaar	phone	farming_type	address	action	timestamp
▶	1	kushi	9897856476	98457586	NULL	NULL	Registered	2024-10-23 08:42:06
	2	kushi	238489374346	98457586	NULL	NULL	Registered	2024-10-23 10:03:26
	3	prathika	989786767	877867565	NULL	NULL	Registered	2024-10-23 10:06:46
	4	prathika	989786767	877867565	NULL	NULL	Deleted	2024-10-23 10:09:56
	5	tsathya	8748327543	2837583475	NULL	NULL	Updated	2024-10-23 11:01:09
	6	sathya	938458784	4985847657	NULL	NULL	Updated	2024-10-23 11:02:21
	7	jay	8766554399	98978767	NULL	NULL	Registered	2024-10-23 13:09:30
	8	sathya	238489374346	03746734636	NULL	NULL	Registered	2024-10-26 21:42:26
	9	sathya1	76356563768	898878733	NULL	NULL	Updated	2024-10-26 21:43:24
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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31 • `select * from produc;`

Result Grid | Filter Rows: | Edit: | Export/Import: | Ex

	id	product_name	description	price	email
▶	1	cotton	quality	938587.00	test@gmail.com
	2	cotton	rthfbhfgb	45.00	sathya@gmail.com
*	NULL	NULL	NULL	NULL	NULL

CONCLUSION

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The Farm Management System (FMS) project was developed to streamline and digitize various farming operations, making it easier for farmers and farm administrators to monitor resources, manage data, and make informed decisions. Utilizing a web-based interface and the FMS provides crop and livestock management, and data visualization, creating a comprehensive solution tailored to modern agricultural needs.