Project Title	**FARMER's MARKET**
Technologies	MERN
Domain	Agriculture
Project Level	Difficult

Table

1. Contents

1. Problem Statement: Farmer's Market

Create a Farmer's Market application which will help a farmer to buy and sell their agriculturebased products on same platform.

1.1 What is MERN Stack and Farmer's Market:

With the MERN Stack, a JavaScript stack, full-stack online applications may be deployed more rapidly and simply. MongoDB, Express, React, and Node.js are the four technologies that make up the MERN Stack. The development process is supposed to be streamlined and made simpler.

Each of these four powerful technologies offers developers an end-to-end environment in which to work and contributes significantly to the development of web apps.

Basically, Farmer's Market is an online platform where farmers can buy all agriculture related machines, mechanical equipment's, seeds, pesticides, fertilizers, farm animals and also, they can sell their own products like cereals, fruits, vegetables, milk and milk products. On this application everyone will have proper record of each deal and transaction.

2. Structure:

Three types of roles are there for user.

- Farmer
- Dealer
- Shop-keeper

3. Scope:

3.1 Farmer:

Farmer can buy products from dealers and sell his own products to shop-keepers.

3.2 Dealer

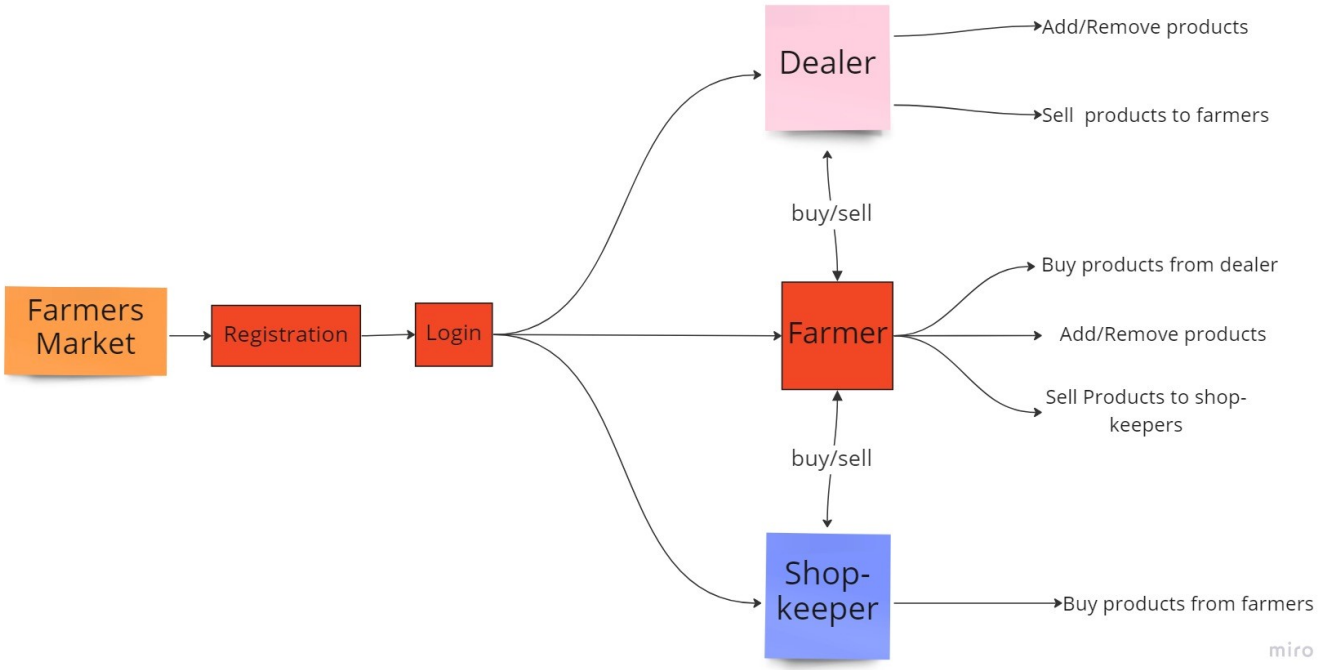
Dealer can only sell their products to farmers.

3.3 Shop-Keeper

Shop-keeper is only having access to buy products from farmers.

4. Functionality

- At very first time of registration user should get all three roles for selection.
- According to role user will get access of farmer market.
- Farmer and Dealer will have access to sell their products, and they can manage their inventory also.
- Farmer and Shop-keeper will have access to buy products.



5. Project Evaluation metrics:

5.1 **Code**:

- You are supposed to write code in a modular fashion ● Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works similarly in every environment (operating system).

- You have to maintain your code on GitHub.
- You must keep your GitHub repo public so anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include the basic workflow and execution of the entire project in the readme file on GitHub.
- Follow the coding standards.

5.2 Database:

MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas.

5.3 API Details or User Interface:

You have to expose your complete solution as an API or try to create a user interface for your model testing. Anything will be fine for us.

5.4 Deployment:

Deploy the application on your preferred service.

5.5 Solutions Design:

You have to submit complete solution design strategies in High-level Document (HLD), Lowlevel Document (LLD), and Wireframe documents**.**

5.6 System Architecture:

You have to submit a system architecture design in your wireframe document and architecture document.

5.7 Optimization of solutions:

Try to optimize your solution on the code level, and architecture level, and mention all of these things in your final submission.

Mention your test cases for your project.

6. Submission requirements:

6.1 High-level Document:

You have to create a high-level document design for your project. You can reference the HLD form below the link.

Sample link: HLD Document Link

6.2 Low-level document:

You have to create a Low-level document design for your project; you can refer to the LLD from the link below.

Sample link: LLD Document Link

6.3 Architecture:

You have to create an Architecture document design for your project; you can refer to the Architecture from the link below.

Sample link: Architecture sample link

6.4 Wireframe:

You have to create a Wireframe document design for your project; refer to the Wireframe from the link below.

Demo link: Wireframe Document Link

6.5 Project code:

You have to submit your code to the GitHub repo in your dashboard when the final submission of your project.

Demo link: Project code sample link

6.6 Detail project report:

You have to create a detailed project report and submit that document as per the given sample.

Demo link: DPR sample link

6.7 Project demo video:

You have to record a project demo video for at least 5 Minutes and submit that link.

The project LinkedIn a post:

You have to post your project details on LinkedIn and submit that post link in your dashboard in your respective field.