Capstone Project Board:

# 1. Epics

## Epic 1: Backend Development

## Epic 2: Frontend Development

## Epic 3: Advanced Features

## Epic 4: Microservices Architecture

## Epic 5: Testing Deployment and Documentation

# 2. Features

## Epic 1: Backend Development

* **Feature 1: Spring Boot Setup**
* **Feature 2: Database Management**
* **Feature 3: RESTful API Development**
* **Feature 4: User Authentication**
* **Feature 5: Payment Integration**

## Epic 2: Frontend Development

* **Feature 1: Angular Project Setup**
* **Feature 2: Product Management Components**
* **Feature 3: API Integration**

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## Epic 3: Advanced Features

* **Feature 1: Real-time Availability**
* **Feature 2: User Reviews and Ratings**
* **Feature 3: User Dashboard**
* **Feature 4: UI Enhancements**

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## Epic 4: Microservices Architecture

* **Feature 1: Microservices Design**
* **Feature 2: API Gateway Setup**
* **Feature 3: Docker Containerization**
* **Feature 4: Service Communication**
* **Feature 5: Monitoring and Logging**

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## Epic 5: Testing and Deployment

* **Feature 1: Application Testing**
* **Feature 2: Cloud Deployment**
* **Feature 3: Application Optimization**
* **Feature 4: Documentation Creation**

# 3. User Stories

#### **Epic 1: Backend Development**

* **User Story 1:** As a developer, I want to set up a Spring Boot project so that I can create a robust backend for the Organic Farms application.
* **User Story 2:** As a developer, I want to configure MySQL for data management, so I can store and retrieve information about farming partners and customers.

#### **Epic 2: Frontend Development**

* **User Story 1:** As a customer, I want to see a list of available fruits, vegetables, and pulses, so I can choose what to order.
* **User Story 2:** As an admin, I want to add or edit products easily, so I can manage the inventory effectively.

#### **Epic 3: Advanced Features**

* **User Story 1:** As a customer, I want to check the availability of products in real-time, so I can make informed decisions while ordering.
* **User Story 2:** As a user, I want to leave reviews for products, so I can share my experience with others.

#### **Epic 4: Microservices Architecture**

* **User Story 1:** As a developer, I want to design a microservices architecture to ensure scalability and maintainability of the application.
* **User Story 2:** As a developer, I want to set up an API Gateway to route requests to the appropriate services.

#### **Epic 5: Testing and Deployment**

* **User Story 1:** As a QA engineer, I want to test the application thoroughly, so I can ensure its reliability and performance.
* **User Story 2:** As a developer, I want to deploy the application to Azure Cloud, so users can access it online.

# 4. Tasks

#### **For Feature 1: Spring Boot Setup**

* **Task 1:** Create a new Spring Boot project.
* **Task 2:** Add dependencies for Spring Data JPA and MySQL.
* **Task 3:** Configure application properties for the database.

#### **For Feature 2: Angular Project Setup**

* **Task 1:** Initialize a new Angular project using the Angular CLI.
* **Task 2:** Set up the project structure with necessary modules and components.

#### **For Feature 1: Application Testing**

* **Task 1:** Write unit tests for backend RESTful APIs.
* **Task 2:** Write integration tests for frontend components.