



## **School of Computing**

**SRM IST, Kattankulathur – 603 203**

**Course Code: 21CSC303J**

**Course Name: Software Engineering and Project Management**

<b>Experiment No</b>	1
<b>Title of Experiment</b>	To identify the Software Project, Create Business Case, Arrive at a Problem Statement
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<b>Register Number</b>	RA2211032010051
<b>Date of Experiment</b>	10/01/2025

## **Mark Split Up**

<b>S.No</b>	<b>Description</b>	<b>Maximum Mark</b>	<b>Mark Obtained</b>
1	Exercise	5	
2	Viva	5	
<b>Total</b>		<b>10</b>	

**Staff Signature with date**

**# User Story 1 - As a existing customer, I want to search for Agriculture Produce using title, quality so that I can easily find the product I'm looking to buy.**

This user story targets existing customers.

The main benefit of this user story is that it saves customers time by allowing them to quickly locate specific agricultural items through a simple search by title, and their preferred quality. This allows an existing customer to identify their required products and allows them to check if their required product is available or not.

#### **# Linked Tasks**

Design and implement search algorithms

Develop filtering and sorting options

Optimize search for speed and accuracy

Test with large datasets for performance

#### **# Estimation of Effort**

- Normal

#### **# Acceptance Criteria**

- **Given that** the customer is on the homepage, **when** they enter a keyword in the search bar, **then** the system should display relevant items based on the title and preferred quality.

- **Given that** the customer performs a search, **when** there are no matches for the entered keyword, **then** the system should display a message saying, "No such items available, try searching for other products."

- **Given that** the search results are displayed, **when** the customer applies additional filters (e.g., price, quality), **then** the system should update the results accordingly.

#### **#User Story 2 - Registration for Consumers**

As a consumer, I want to register on the marketplace so that I can buy agricultural products.

This user story targets new consumers who want to join the platform.

The main benefit is that it allows consumers to create an account to start browsing, purchasing products, and managing orders on the marketplace.

**#Linked Tasks:**

Design registration form and user authentication

Implement email verification

Set up consumer profile management

Test registration flow for usability

**#Estimation of Effort:**

Medium

**#Acceptance Criteria:**

Given that the user is on the registration page, when they provide their details (name, email, password), then the system should create an account and redirect to marketplace.

Given that the user has verified their email, when they log in, then the system should allow access to the consumer dashboard.

**#User Story 3 - Registration for Farmers**

As a farmer, I want to register on the marketplace so that I can sell agricultural products.

This user story targets new farmer users who want to sell their products.

The main benefit is that it allows farmers to create an account and start listing their agricultural products for sale.

**#Linked Tasks:**

Design registration form specific for farmers

Implement farm/business verification process

Set up seller profile and inventory management

Test registration and seller verification

**# Estimation of Effort:**

Medium

### **#Acceptance Criteria:**

Given that the farmer is on the registration page, when they provide farm details (farm name, contact, location, products), then the system should create a seller account and verify the farm/business.

Given that the farmer is registered, when they log in, they should be able to manage their product listings.

### **#User Story 4 - Admin Dashboard for Managing Products**

As an admin, I want to manage product listings so that I can approve or remove listings from the marketplace.

This user story targets admins who are responsible for overseeing the marketplace.

The main benefit is that admins can monitor products listed by farmers and ensure they meet marketplace guidelines.

### **#Linked Tasks:**

Design and implement admin dashboard interface

Implement product approval and removal workflow

Set up notification system for listing changes

Test functionality with sample product data

### **#Estimation of Effort:**

High

### **#Acceptance Criteria:**

Given that the admin is logged in, when they view the product listing, then they should see options to approve, reject, or remove products.

Given that a product is removed, when a customer tries to view it, then they should see a message saying, "This product is no longer available."

### **#User Story 5 - Admin Support for Farmers**

As an admin, I want to provide support to farmers who are having trouble navigating the marketplace so that they can list and manage their products effectively.

This user story targets admins who help farmers who are unfamiliar with the website.

The main benefit is that it ensures farmers receive assistance with account and product management.

**#Linked Tasks:**

Implement admin support ticket system  
Create tutorial guides and FAQs for farmers  
Set up a support dashboard for admins to track queries  
Test support workflows and user interactions

**#Estimation of Effort:**

Medium

**#Acceptance Criteria:**

Given that a farmer needs support, when they submit a support ticket, then the admin should receive a notification and be able to respond with instructions or guidance.

Given that the admin has responded to a support ticket, when the farmer views the ticket, then they should see the provided solution or advice.

**#User Story 6 - Product Listing by Farmers**

As a farmer, I want to list my agricultural products with details like price, quality, and description so that consumers can easily find and buy my products.

This user story targets farmers who want to sell their products on the marketplace.

The main benefit is that it gives farmers control over their product listings, allowing them to present products with the necessary details to attract consumers.

**#Linked Tasks:**

Design and implement product listing form  
Set up product image upload feature  
Allow for product price, quality, and description input  
Test product listing and viewing process

**#Estimation of Effort:**

Medium

**#Acceptance Criteria:**

Given that the farmer is logged in, when they add a product, then the system should allow them to provide the product title, price, description, and upload images.

Given that a product has been listed, when a consumer views the product, then they should see all the details including price, quality, and description.

#### **#User Story 7 - Cart Functionality for Consumers**

As a consumer, I want to add products to my cart so that I can purchase multiple items at once.

This user story targets consumers who want to buy multiple products in one transaction.

The main benefit is that it provides a streamlined shopping experience for consumers by allowing them to manage and purchase multiple items together.

#### **#Linked Tasks:**

Implement shopping cart system

Enable product quantity selection in the cart

Integrate with checkout system

Test with multiple product types in cart

#### **#Estimation of Effort:**

High

#### **#Acceptance Criteria:**

Given that the consumer has added items to their cart, when they view the cart, then they should see all selected items, quantities, and the total price.

Given that the consumer is ready to check out, when they proceed to checkout, then the system should allow payment and delivery details to be entered.

#### **#User Story 8 - Admin Access to Sales Analytics**

As an admin, I want to view sales analytics so that I can monitor the performance of products and identify trends.

This user story targets admins who need to track sales data for decision-making.

The main benefit is that it provides admins with insights into the marketplace's performance, allowing them to optimize for better customer experiences.

#### **#Linked Tasks:**

Design and implement analytics dashboard

Collect data on sales, products, and customer activity

Display analytics with filters and date ranges

Test with sample data and reports

**#Estimation of Effort:**

High

**#Acceptance Criteria:**

Given that the admin is logged in, when they view the analytics dashboard, then they should see key metrics such as total sales, most popular products, and active customers.

Given that the admin selects a date range, when they view the report, then the system should show data for that specific time period.

**#User Story 9 - Admin Management of User Accounts**

As an admin, I want to manage user accounts (both consumers and farmers) so that I can ensure proper registration, account status, and resolve any issues that arise.

This user story targets admins responsible for overseeing the user accounts on the marketplace, ensuring that users are properly registered, managing account statuses, and handling any issues related to account access or verification.

**#Linked Tasks:**

Design and implement user account management dashboard

Enable account activation, deactivation, and suspension

Allow admins to review and resolve user issues (e.g., forgotten passwords, account disputes)

Implement search and filter options to manage users easily

Test with various user account scenarios

**#Estimation of Effort:**

Medium

### **#Acceptance Criteria:**

Given that the admin is logged in, when they view the user account management section, then they should see a list of all registered users (both consumers and farmers).

Given that the admin selects a user account, when they choose to activate, deactivate, or suspend the account, then the system should update the account status accordingly.

Given that a user has an issue (e.g., forgotten password), when the admin reviews the request, then the system should allow the admin to assist with the resolution (e.g., reset password or send a verification email).

Given that there are many user accounts, when the admin uses filters (e.g., account type, active/inactive), then the system should display the relevant results accordingly.