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MILESTONE #01

Problem analysis

Problem - Insufficient income gained by farmers in agriculture produce.

TQM - Middle men gains excessive profit - lack of knowledge in farmers about chemical fertilizer and their proportion– farmers have Low access to local market

Problem – Absence of sound marketing facilities and bad yield of crops.

Problem statement

The problem of.... Dependency of farmer on middle man and lack of knowledge about fertilizer

Affects…., Average yield of produce, satisfaction level of farmer

And results in…. decreased profitability of farmer

Benefits of a solution…. That creates a new system to address the problem include:

1. Ease in communication for dissemination of information about price, volume and others.

2. Post-harvest loss can be minimized

3. Transparency in activities

4. Bargaining power improved

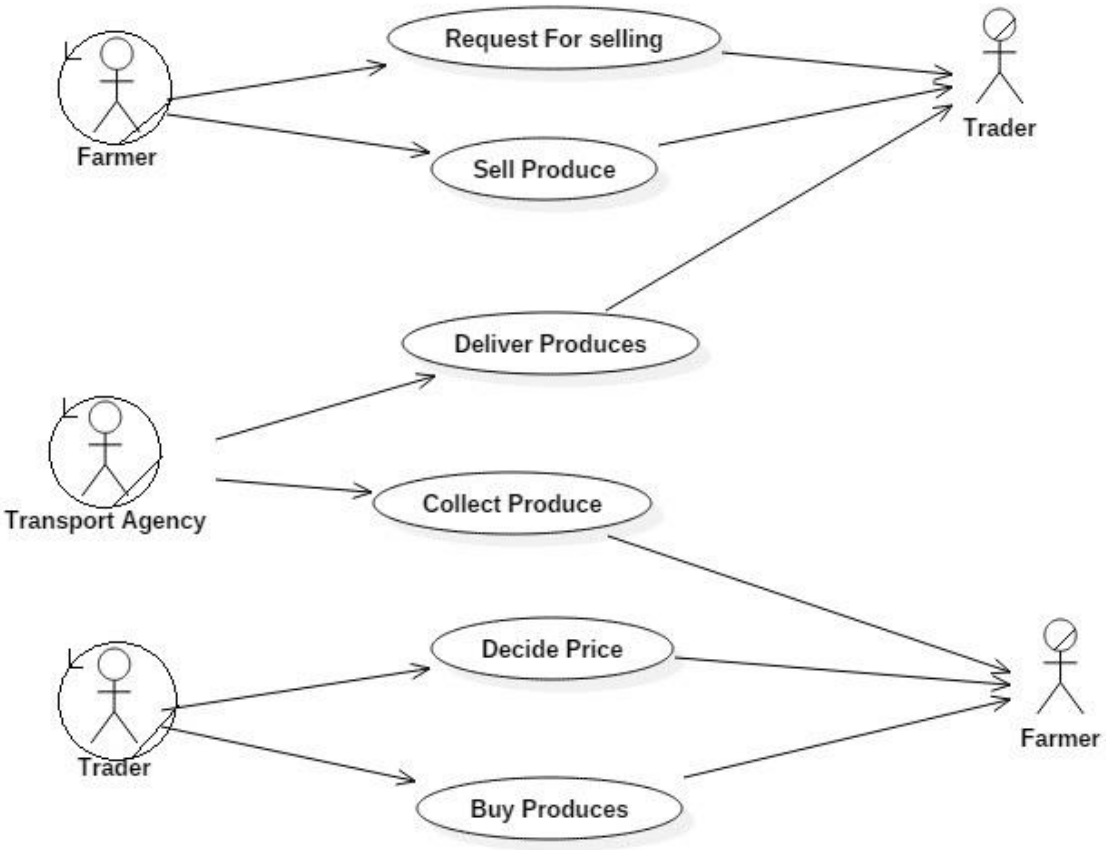
Users of the new system – Farmer, Trader

Other stakeholders – Labourers of farmers, other public

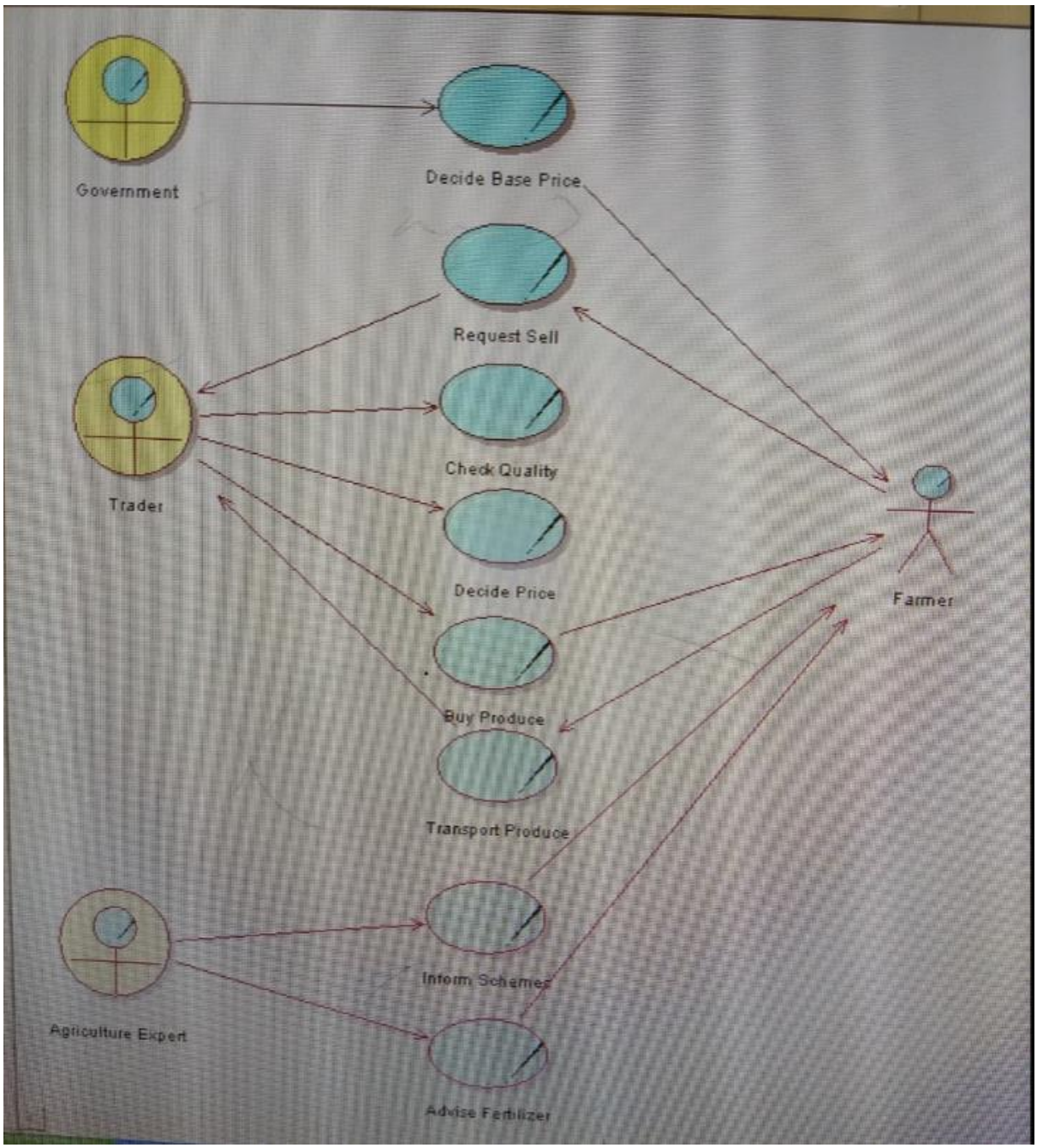
System perspective – Farmer, Trader, Other public

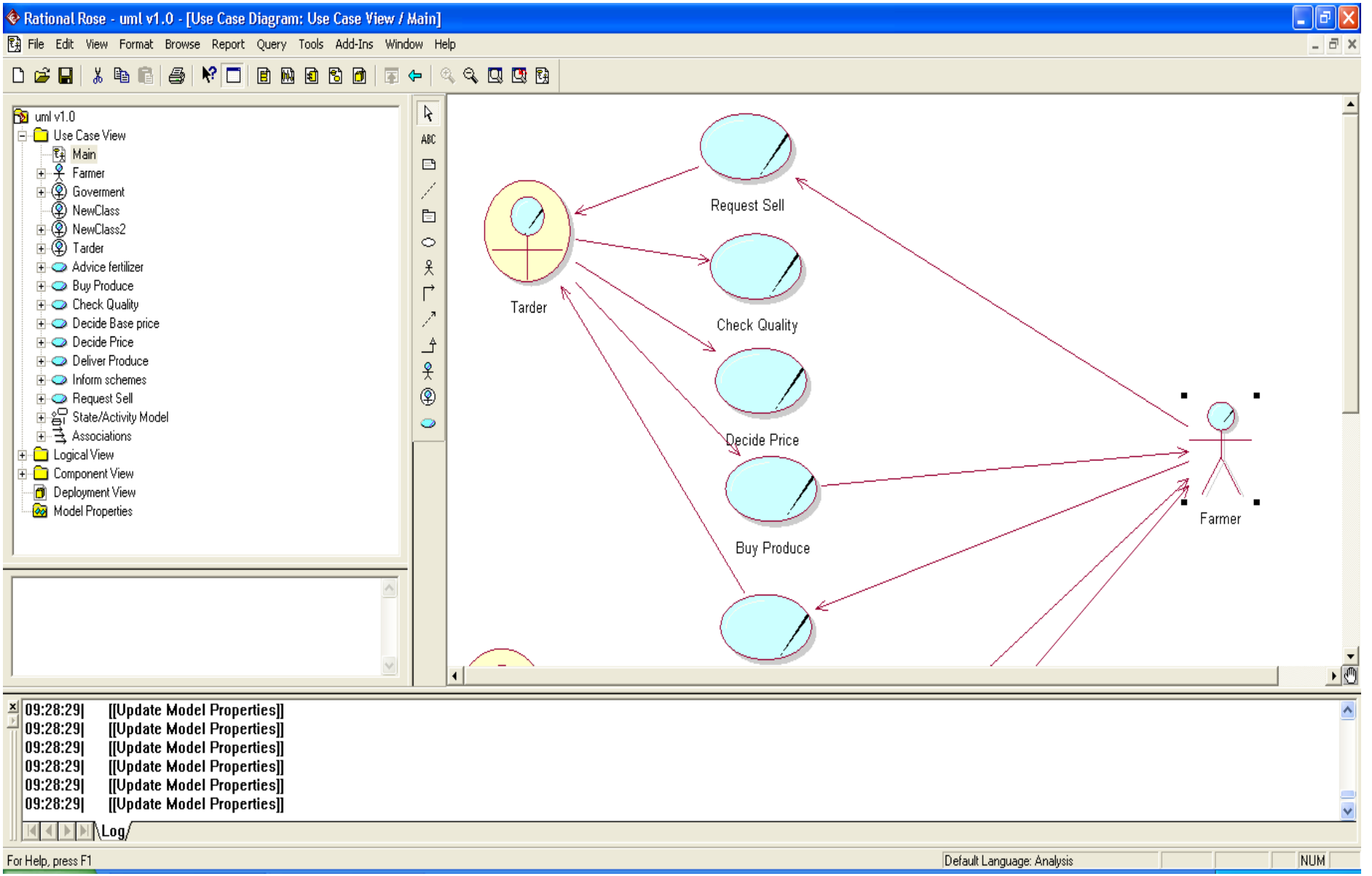
Constraints – Self-fetching price operations, Inconsistency in Soil Health Card which is Input in process of calculating proportions of different fertilizer required in the soil as per crop, Lack of Literacy in farmer and trader community in using Web application.

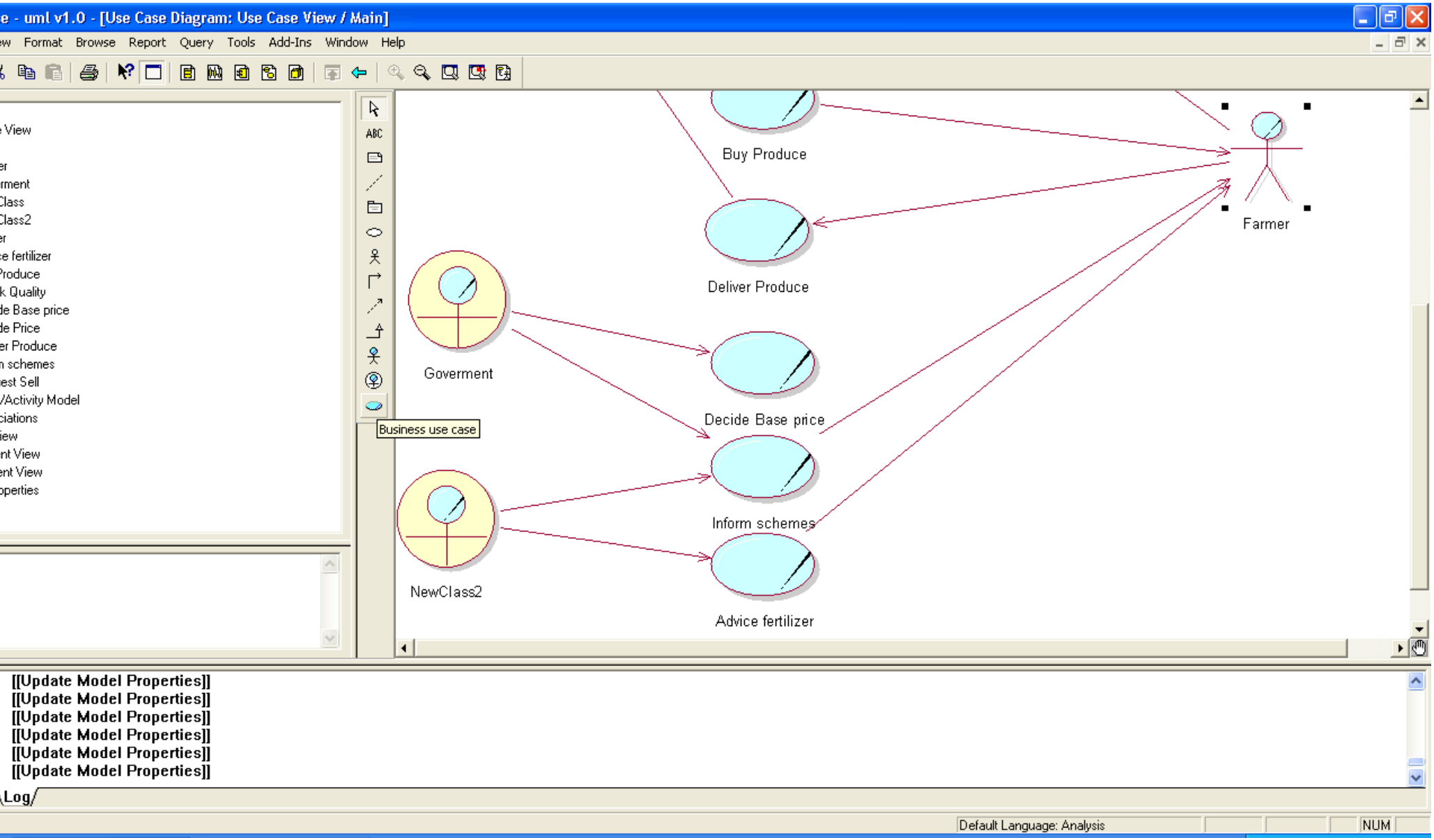
BUSINESS USE CASE DIAGRAM v1.0



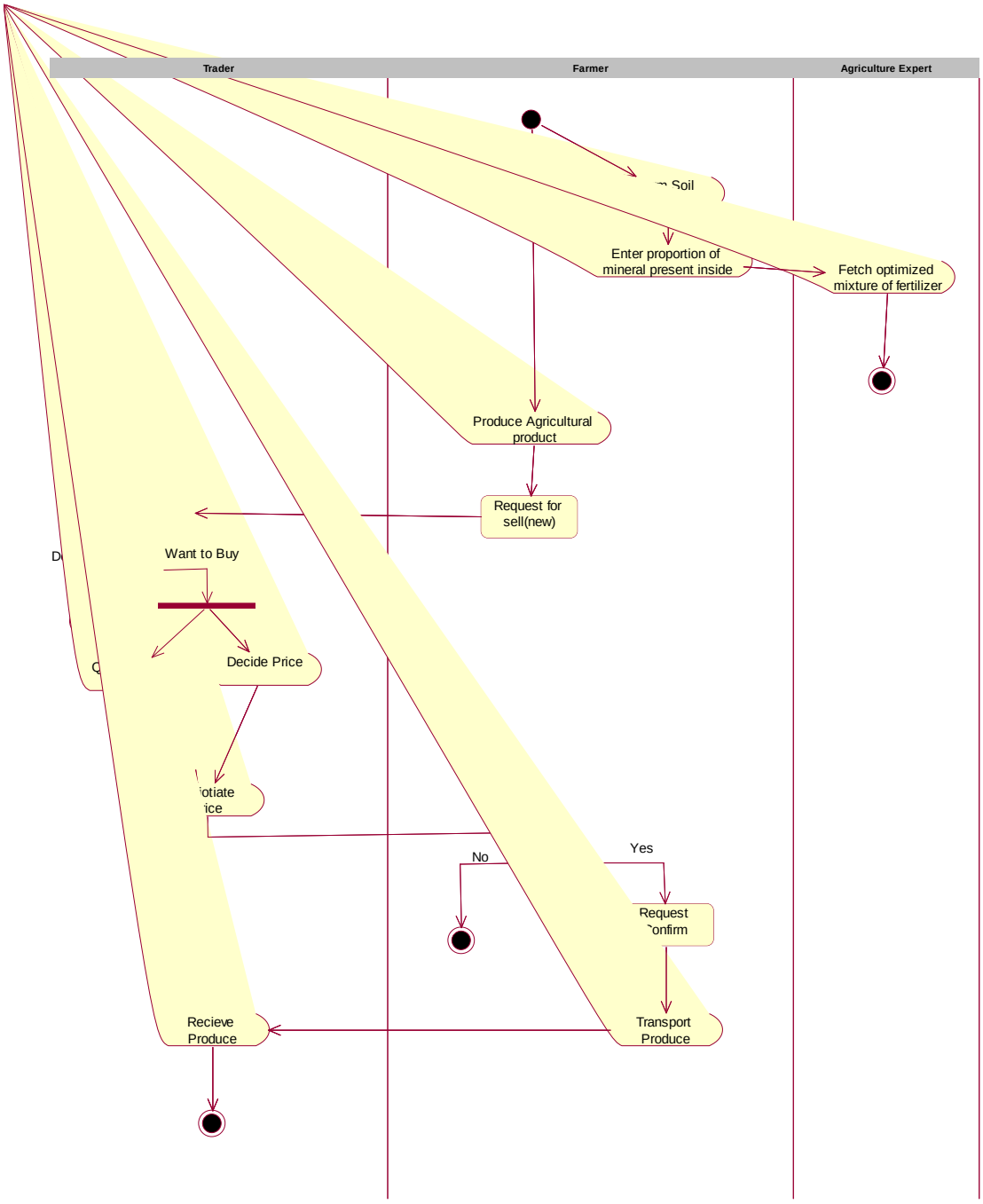
BUSINESS USE CASE DIAGRAM v2.0




Rational Rose - uml v1.0 - [Use Case Diagram: Use Case View / Main]
File Edit View Format Browse Report Query Tools Add-Ins Window Help
uml v1.0
Use Case View
Main
Farmer
Goverment
NewClass
NewClass2
Tarder
Advice fertilizer
Buy Produce
Check Quality
Decide Base price
Decide Price
Deliver Produce
Inform schemes
Request Sell
State/Activity Model
Associations
Logical View
Component View
Deployment View
Model Properties
Request Sell
Tarder
Check Quality
Decide Price
Buy Produce
Farmer
09:28:29| [[Update Model Properties]]
09:28:29| [[Update Model Properties]]
09:28:29| [[Update Model Properties]]
09:28:29| [[Update Model Properties]]
09:28:29| [[Update Model Properties]]
09:28:29| [[Update Model Properties]]
Log
For Help, press F1
Default Language: Analysis
NUM


e - uml v1.0 - [Use Case Diagram: Use Case View / Main]
Format Browse Report Query Tools Add-Ins Window Help
Business use case
Buy Produce
Deliver Produce
Farmer
Goverment
Decide Base price
Inform schemes
NewClass2
Advice fertilizer
[[Update Model Properties]]
[[Update Model Properties]]
[[Update Model Properties]]
[[Update Model Properties]]
[[Update Model Properties]]
[[Update Model Properties]]
Log
Default Language: Analysis
NUM

ACTIVITY DIAGRAM



SYSTEM REQUIREMENTS

PROBLEM STATEMENT:

Insufficient income gained by farmers in agriculture produce.

FUNCTIONS PROVIDED:

1. Easy communication for dissemination of information about price, volume and others.

2. Post-harvest loss can be minimized by selling their produce by this platform.

3. Transparency in activities will be provided by the system.

4. Bargaining power improved of farmers.

PROCESSING ENVIORNMENT:

SOFTWARE:

1. Sublime Text Editor
2. ReactJS (Facebook framework)
3. Wamp server
4. Mysql Database
5. Web Browser

USER CHARACTERISTICS:

FARMER:

1. REQUEST THE TRADER FOR SELLING THE AGRICULTURE PRODUCE.
2. NEGOTIATE WITH TRADER FOR POR SELLING PRODUCE.
3. GET INFORMATION OF THE PROPORTIONS OF THE FERTILIZERS REQUIRED FOR THE SOIL AS PER THE CROP.
4. GET INFORMATION ABOUT GOVERNMENT SCHEMES

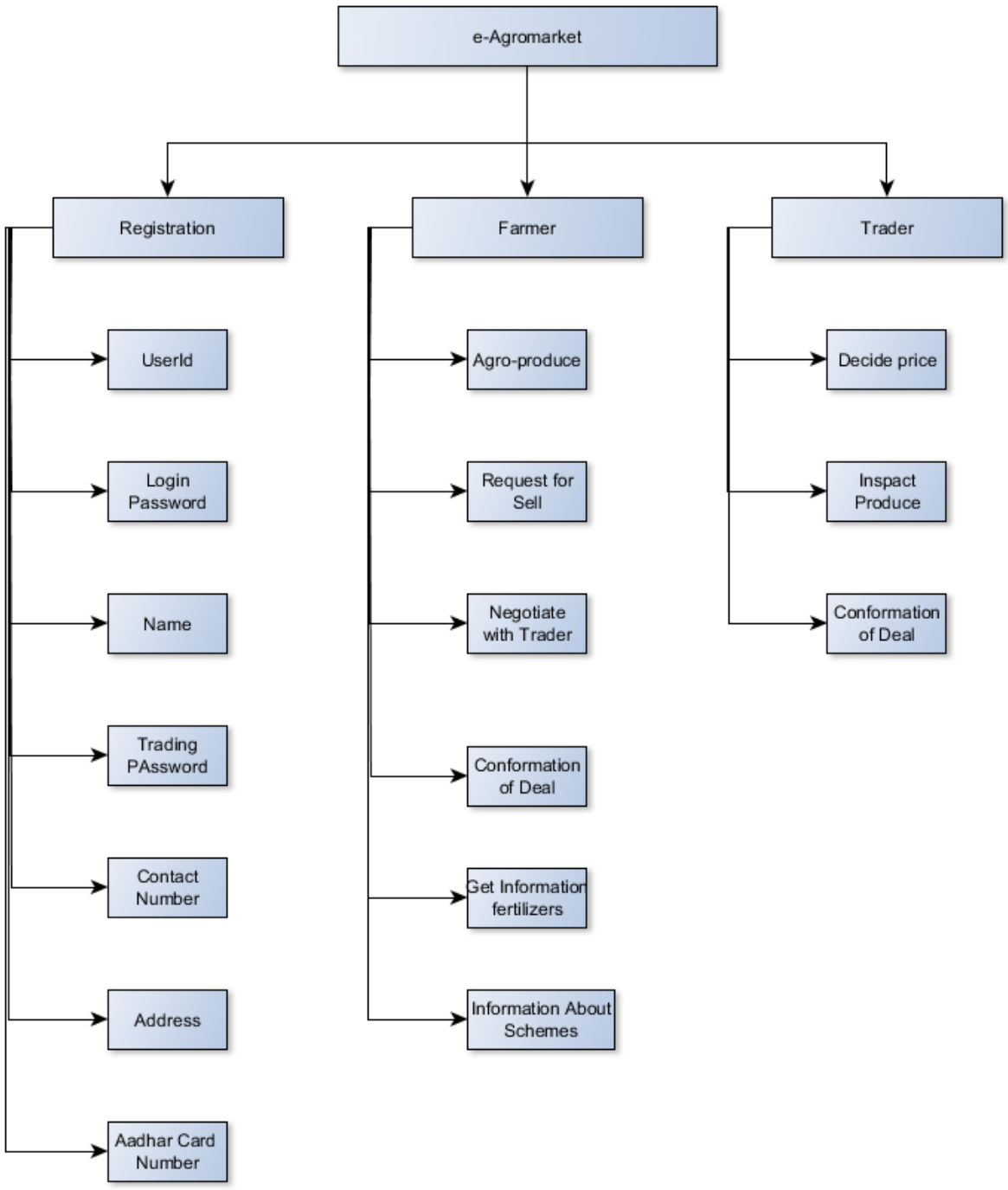
TRADER:

1. DIRECTLY COMMUNICATE WITH THE FARMER.
2. GET AGRICULTURE PRODUCE OF THE DESIRED QUALITY.

SOLUTION STRATEGY

By making this Business Application Software, traders and farmers will get a platform for selling produce.

PRODUCT FEATURES (WBS):



PROTOTYPE:

This will contains registration module and platform for online trading and will function for just one district.

MODEST:

This will have bug fixes of previous versions and will be implemented in one state.

ENHANCED VERSION:

Will be further enhanced and function for whole India.

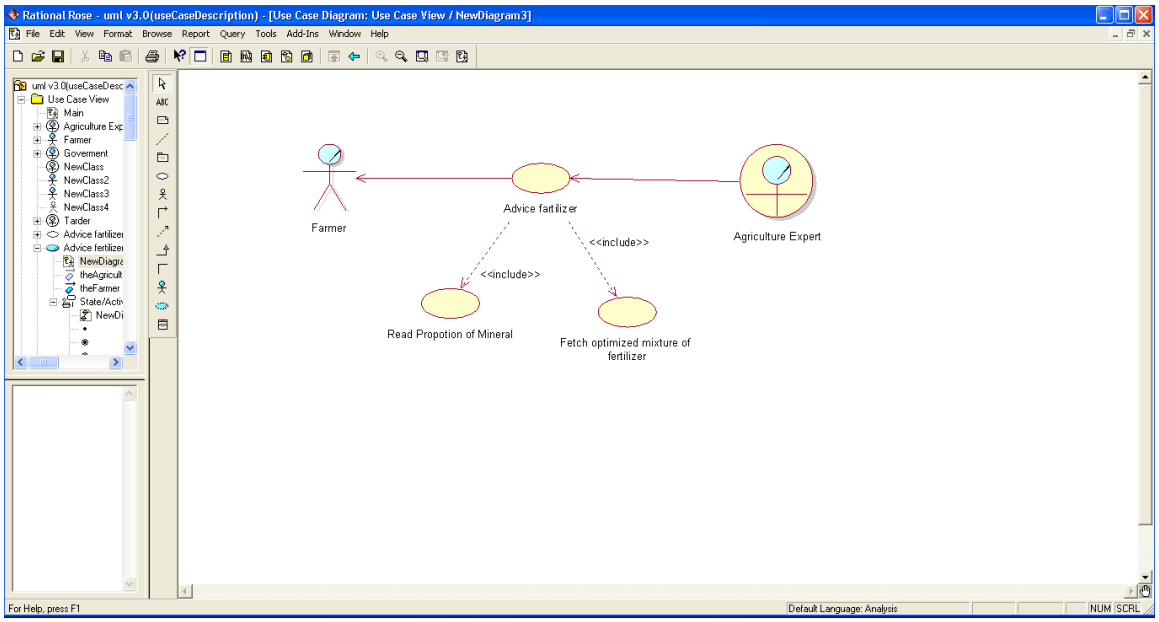
SOURCES OF INFORMATION:

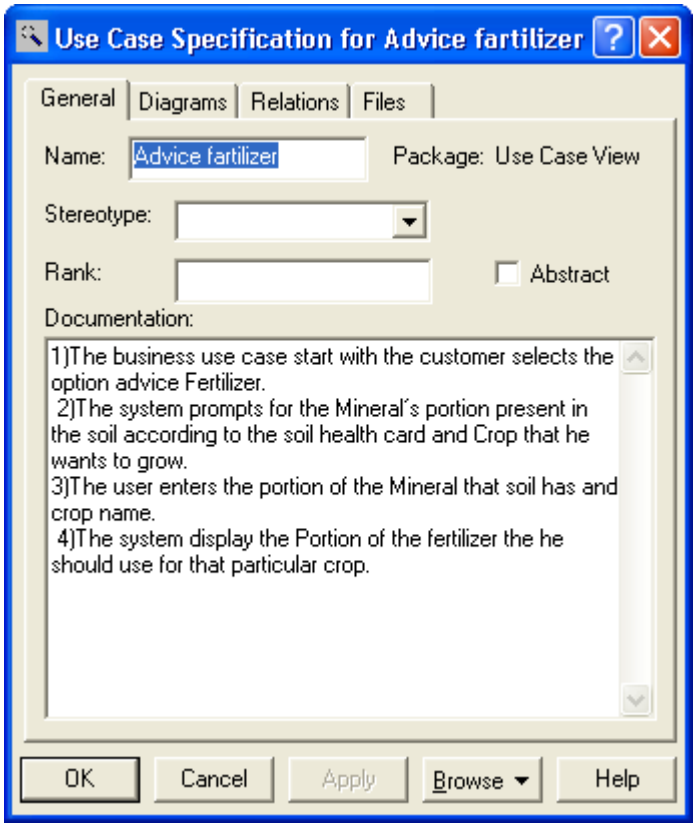
Various farmer organization of their states' API will be integrated in our application.

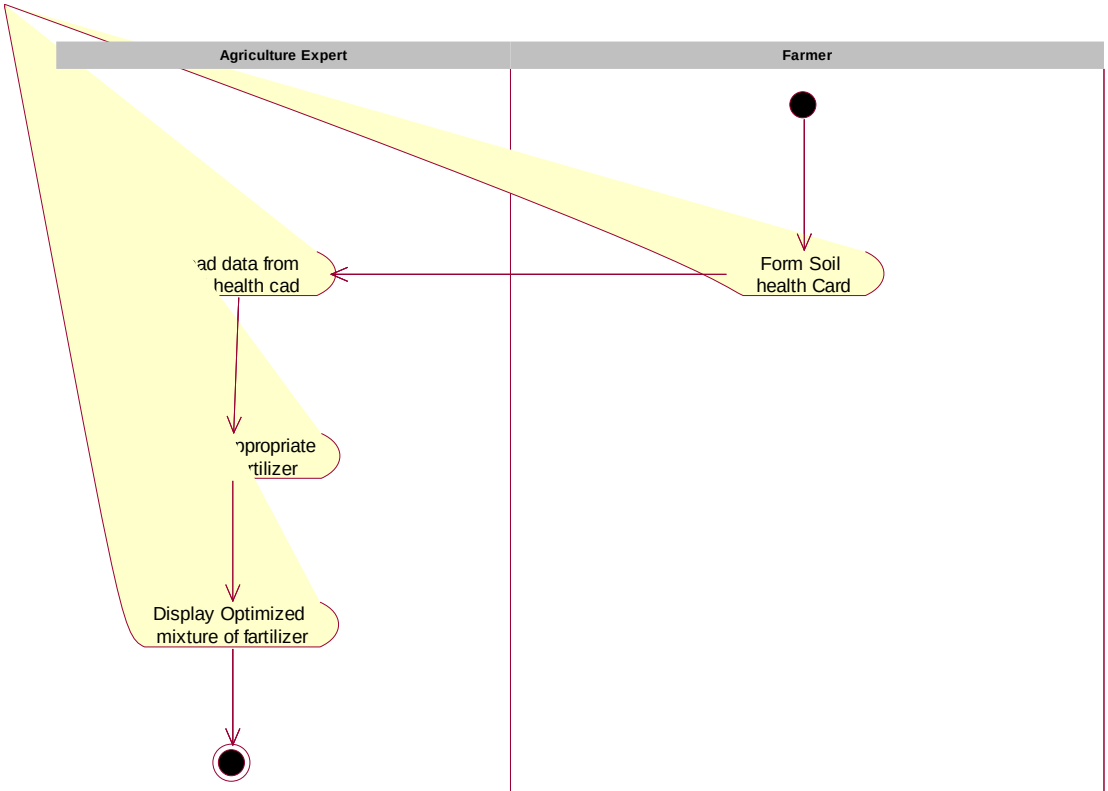
Governments Sites like Agmarknet.gov.in , Khudut Mitra, APMC will be source of Govt. Schemes.

SYSTEM USE CASE WITH DESCRIPTION AND ACTIVITY FLOW:

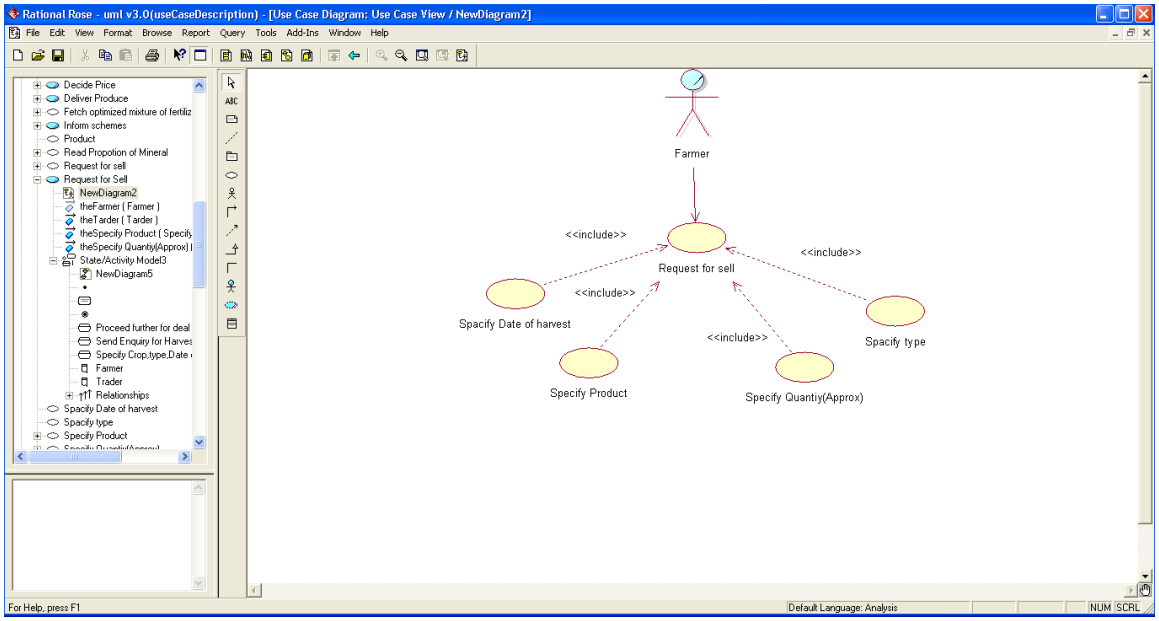
System use case 1:

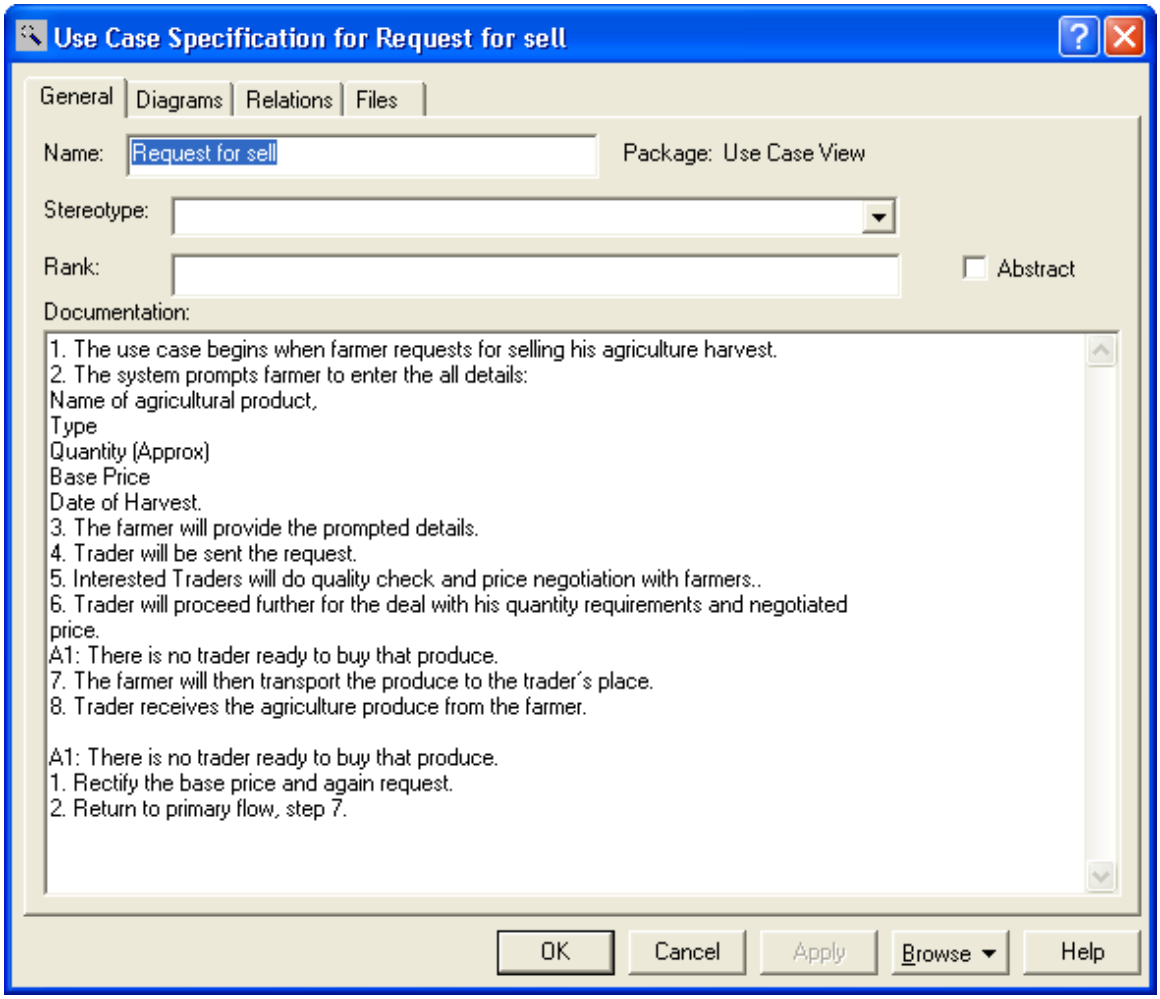


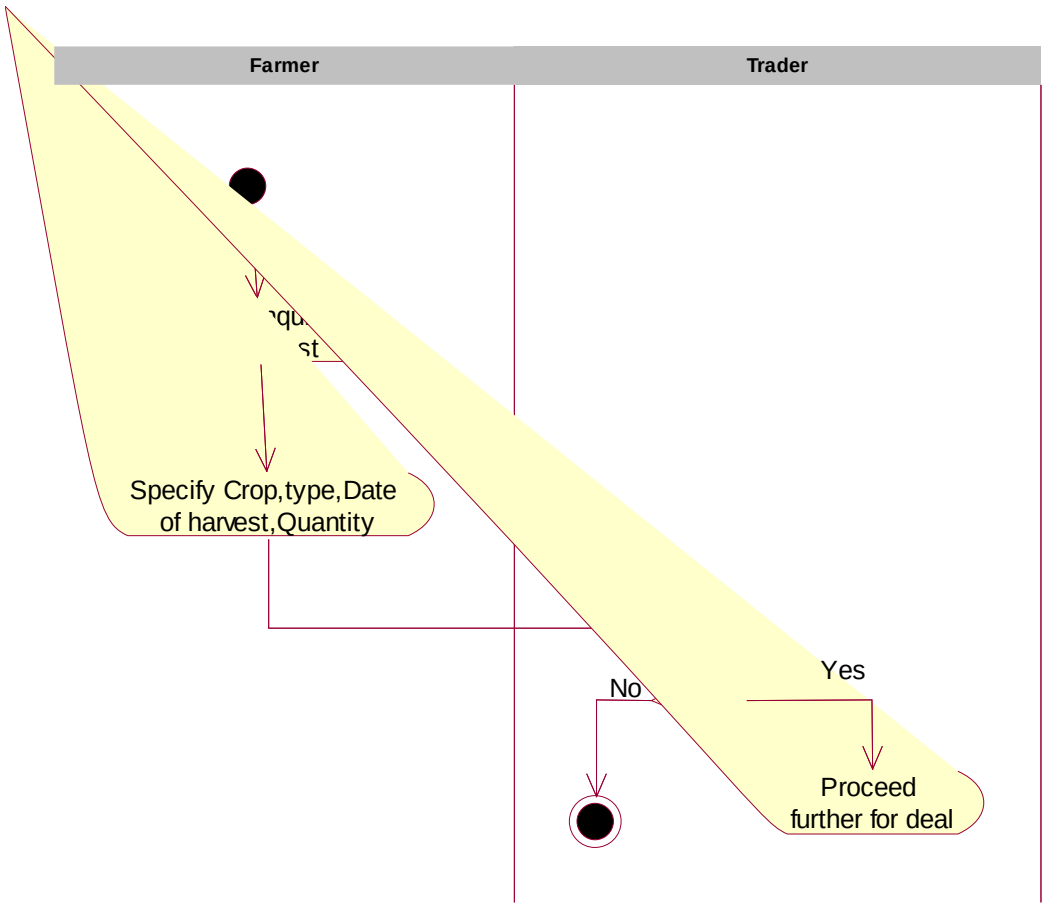




System use case 2:




Use Case Specification for Request for sell
General
Diagrams
Relations
Files
Name:
Request for sell
Package: Use Case View
Stereotype:
Rank:
Abstract
Documentation:
1. The use case begins when farmer requests for selling his agriculture harvest.
2. The system prompts farmer to enter the all details:
Name of agricultural product,
Type
Quantity (Approx)
Base Price
Date of Harvest.
3. The farmer will provide the prompted details.
4. Trader will be sent the request.
5. Interested Traders will do quality check and price negotiation with farmers..
6. Trader will proceed further for the deal with his quantity requirements and negotiated
price.
A1: There is no trader ready to buy that produce.
7. The farmer will then transport the produce to the trader´s place.
8. Trader receives the agriculture produce from the farmer.
A1: There is no trader ready to buy that produce.
1. Rectify the base price and again request.
2. Return to primary flow, step 7.
OK
Cancel
Apply
Browse
Help



MILESTONE #01 COMPLETED