USE CASE DIAGRAM
"MARKET YARD MANAGEMENT SYSTEM"

COURSE:
IT 314 : Software Engineering

GROUP: 5.13

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USE CASE DESCRIPTION

1 Sign Up

Identifier	SU
Use Case Name	Sign Up
Actor/s	Farmers,Traders,Customers
Description	The user registers on the website by providing preliminary details like username, name, mobile number, state, district, village, category for registration (farmer,trader or customer), preferences and bank details. He/She also sets a new password for the system.
Basic Flow	A. The User clicks on the Sign Up button. B. The registration form is displayed. C. The User fills the registration form with relevant details. D. The User clicks on submit.[A1][A2] E. The details are submitted. F. Sign Up process is completed. G. User is logged into the system.
Pre-Condition	The user is new and decided to register on the portal
Post-Condition	Signed Up Successfully
Alternate Flow	[A1] The User may have entered incorrect details. The system shows the registration form again with a message to correct the incorrect information. [A2] The User fails to enter data into any mandatory field. The system shows the registration form again with a message to enter information in the required fields.
Exception	● The server of the portal may be down which may cause a failure in the registration process. ● The User selects Cancel option. The User is returned to the home page of the portal and the information entered by the User is

	removed.

2 Log In

Identifier	LI
Use Case Name	Log In
Actor/s	Farmers,Traders,Customers,Mandi Admin
Description	The User enters the system by providing his username and password.
Basic Flow	A. The User clicks on the Sign In button. B. Log In details are asked from the user. C. The User enters the username and password. D. The credentials are validated by the system.[A1][A2] E. The User is signed in and is shown the dashboard.
Pre-Condition	User should be signed up on the portal
Post-Condition	The user is able to see his dashboard which shows the necessary details for him/her.
Alternate Flow	[A1] The User may have entered incorrect details. The system shows the log in again with a message to input the correct login credentials. [A2] The User may not have been previously registered on the portal. The system would take him to the sign up page and the registration form is displayed. The entered details by the Users are already filled in the required fields of the registration form.
Exception	● The server of the portal may be down which may cause a failure in the login process. ● The User clicks Cancel instead of Login. In that case he is taken to the homepage again and all the details entered by him are removed.

3 Update Profile

Identifier	UP
Use Case Name	Update Profile
Actor/s	Farmers,Traders,Customers
Description	The User updates his profile by changing any of the fields mentioned above.
Basic Flow	A. The User selects Update Profile from the Menu. B. User is shown his current details. C. User selects and edits the fields he wants to update. D. User submits the updated profile.[A1][A2] E. System updates the information and the User is displayed his profile page.
Pre-Condition	User should be logged in
Post-Condition	Details of the User are successfully updated
Alternate Flow	[A1] The User may have entered incorrect details. The system shows the profile page again with a message to correct the incorrect information. [A2] The User removes the data from any mandatory field. The system shows the profile page again with a message to enter information in the required fields.
Exception	● The server of the portal may be down which may cause a failure in the process. ● User selects the Cancel option. He is taken back to his profile page and all the data entered is removed.

4 Stock Entry for Mandi

Identifier	SE
Use Case Name	Stock Entry for Mandi
Actor/s	Mandi Admin
Description	When a farmer brings in his goods to the market, the Mandi head will take stock of the goods and enter it into the system. Details about the stock i.e. commodity name, quantity, farmer who brought it, price quotation by the farmer and payment details.
Basic Flow	A. The User selects the option to add stock to the Mandi. B. He is shown the Stock entry form with fields like, commodity name, selling type, quantity, farmer's name, price quote and payment details. C. The User saves the form.[A1] D. The User would submit the form.[A2] E. The goods brought in the Mandi are successfully added to the system. F. User is taken to his dashboard.
Pre-Condition	User (with privileges to enter this data) should be logged in to the portal
Post-Condition	Details of the new arrival are successfully added
Alternate Flow	[A1] The User selects cancel in which case all the details about the item are erased and he is taken back to his dashboard. [A2] The User enters any data incorrectly or forgets to enter data in any mandatory field. He is taken back to the form with a message to enter the data correctly.
Exception	● The User may try to enter data for a farmer who isn't registered

	on the system. The User is notified of this and is taken back to the form. ● User selects the Cancel option. He is taken back to the form and the data entered is saved and shown on the form itself.

5 Bargaining

Identifier	B
Use Case Name	Bargaining
Actor/s	Trader, Customer
Description	The trader is allowed to enter his price quote after the Mandi admin enters his goods. This is a bargain type of sale between the trader and customer. So we can have continuous updation of current bargain price on that particular goods for those two entities engaged in the transaction.
Basic Flow	A. The Customer selects the commodity that he/she wants to buy. B. The trader selling the commodity will be notified about the sale. C. Customer enters the price that he/she wants to buy and and the trader enters the selling price.[A1] D. Both the entities continue this until a fixed price is decided between them.[A2][A3] E. The Customer is taken to the checkout page.
Pre-Condition	Both the Users (trader and customer) should be logged into the system
Post-Condition	Customer is taken to the checkout page
Alternate Flow	[A1] The Customer or the Seller may enter a negative price, thus they are notified of such a mistake and transaction is put on hold. [A2] The Customer or the Trader isn't satisfied with the final price and calls off the deal. Customer is returned to the online marketplace whereas the Trader is returned to his dashboard. [A3] The Customer continues shopping after the sale and doesn't

	proceed to the checkout page.
Exception	- There may be connectivity issues on either side of the bargain thus nullifying any of the bargaining that happened. - The Customer cancels the transaction in which case the exchange ends and the user is taken to the marketplace.

6 Invoice Generation

Identifier	IG
Use Case Name	Invoice Generation
Actor/s	Backend System
Description	After a successful transaction is completed, the backend system would generate an invoice for the selling as well as buying party. For the former, it would be called the invoice whereas for the latter it would be called the bill.
Basic Flow	A. Customer is taken to the Payment Page B. Customer chooses Online method.[A1] C. He is taken to the bill generation page and the invoice is generated. D. The customer pays the money through online transaction E. The money is transferred to the seller's account after a certain percentage cut by the Mandi.[A2]
Pre-Condition	Check-Out of goods has been done
Post-Condition	Receipt is generated
Alternate Flow	[A1] If the person chooses Cash on Delivery, he is directly taken to the final bill generation page and invoice is generated. [A2] The Money doesn't get transferred because the bank portal may not have supported the transaction due to internal error.
Exception	Due to insufficient funds in the User's bank account he isn't able to pay the bill. The transaction is cancelled and the User is taken to the

	checkout page.

7 Price Fluctuation Graph

Identifier	PFG
Use Case Name	Price Fluctuation Graph
Actor/s	Mandi Admin, System
Description	The prices of the goods are updated twice during the day. The Mandi Admin would update these prices in the system and a graph would be generated. The interested people of those particular goods would be notified of the price fluctuations.
Basic Flow	A. The User updates the price of the commodities. B. System takes the price as an input and generates the graph for the commodities.
Pre-Condition	Mandi Admin should be logged in
Post-Condition	Graph is generated
Alternate Flow	NA
Exception	The Graph won't get published because there is some internal error in the system

8 Buying of Goods From the online Marketplace

Identifier	BG
Use Case Name	Buying Goods
Actor/s	Customers, Traders
Description	The customer if interested in buying of a particular commodity would start the transaction process for the buying of that particular goods
Basic Flow	A. The User decided to buy a particular commodity. B. He clicks on buy option.[A1][A2] C. He is taken to the checkout page
Pre-Condition	User should be logged in
Post-Condition	User is taken to the checkout page
Alternate Flow	[A1] If the User chooses to bargain, he/she is asked to wait until seller comes online. After the Seller is available he/she is taken to the bargaining page. [A2] If the User chooses, Add goods to cart, the goods are added to shopping cart and he/she continues shopping.
Exception	There may be connectivity issues that may cause the process to be terminated.

9 Check-out of Goods

Identifier	CO
Use Case Name	Check-Out
Actor/s	Customers, Backend System
Description	The customer if interested in buying of a particular commodity would start the transaction process for the buying of that particular goods
Basic Flow	A. Details of the transaction are already filled by the backend system. B. Customer confirms his transaction and chooses to move forward to payment. [A1] C. The Goods are deducted from the stock D. Customer is taken to the Payment Page
Pre-Condition	Successful Transaction should have taken place.
Post-Condition	User is taken to the payment page
Alternate Flow	[A1] If the User chooses the option to continue shopping his goods are saved in cart and he is taken to the shopping marketplace.
Exception	● There may be connectivity issues that may cause the process to be terminated. ● If the User cancels, the goods are added to the Mandi, transaction

	cancelled and the User is taken back to the online marketplace.

10 Delivery

Identifier	D
Use Case Name	Delivery
Actor/s	Mandi Staff
Description	After the payment is done from the customer's side the mandi staff is notified of the purchase and the goods are dispatched for delivery.
Basic Flow	A. Mandi Staff is notified about the delivery to be made. B. Dispatch Entry made in the System.[A1] C. Mandi staff delivers the goods.
Pre-Condition	Successful payment done by the Customer
Post-Condition	Delivery Dispatch from the Mandi
Alternate Flow	NA
Exception	There may be connectivity issues that may cause the process to be terminated.

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