

Use Case and Description of

VAT ENSURING **SYSTEM**

Presented by,

Md. Wahiduzzaman Nayem; I'D: 201-35-2979;

Dewan Lamia Sathi, I'D: 201-35-3069;

Section: A;

Dept. of Software Engineering, DIU.

Presented to,

Md. Shohel Arman,

Lecturer (Senior Scale),

Dept. of Software Engineering, DIU.

Use Case Diagram

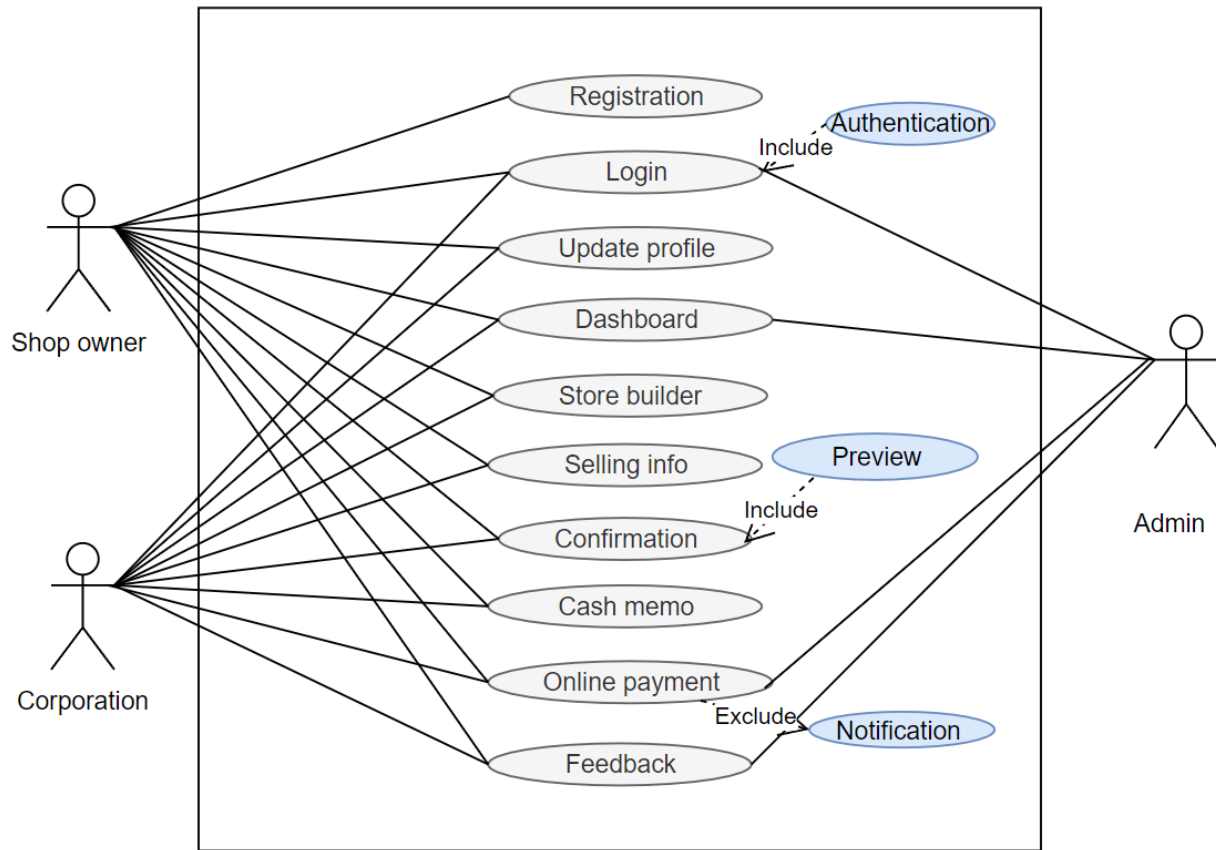


Figure 3.1: Use case Diagram for VAT Ensuring System

3.2. Use Case Description

Use case -01	Registration													
Goal	It is very important for a shop owner to register on this site because it allows him to know how many goods are in his store, how many products have been sold and how much vat comes in at the end of the year and pay it without any hassle.													
Precondition	N/A													
Success End Condition	Registered successfully and accessed the system.													
Failed End Condition	Can't enter into the system.													
Actors	Shop Owner													
Trigger	Registration to the system.													
Description	<table><tr><th>Step</th><th>Action</th></tr><tr><td>1</td><td>Push Sign Up Button</td></tr><tr><td>1.1</td><td>Enter shop ID</td></tr><tr><td>1.2</td><td>Enter user phone number</td></tr><tr><td>1.3</td><td>Create a Password</td></tr><tr><td>2</td><td>Push registration button</td></tr></table>		Step	Action	1	Push Sign Up Button	1.1	Enter shop ID	1.2	Enter user phone number	1.3	Create a Password	2	Push registration button
Step	Action													
1	Push Sign Up Button													
1.1	Enter shop ID													
1.2	Enter user phone number													
1.3	Create a Password													
2	Push registration button													
Alternative Flows	N/A													
Quality Requirements	Don't provide wrong shop Id and invalid phone number of user.													

Use case -02	Authentication											
Goal	Shop owners, Corporations and Admin are able to login in this system and Access the necessary modules which are required for them.											
Precondition	Need to register and put the shop ID and phone number.											
Success End Condition	Come into the system and access the system all features.											
Failed End Condition	Shop owners, corporations and admin are not accessing any module of this system.											
Actors	Shop owners Corporations Admin											
Trigger	Get all access to the system for the required actors.											
Description	<table><tr><td>step</td><td>Action</td></tr><tr><td>1</td><td>Press OTP required field</td></tr><tr><td>1.1</td><td>Get OTP number through SMS by using phone number</td></tr><tr><td>1.2</td><td>Provide OTP number</td></tr><tr><td>2</td><td>Push confirm button</td></tr></table>		step	Action	1	Press OTP required field	1.1	Get OTP number through SMS by using phone number	1.2	Provide OTP number	2	Push confirm button
	step	Action										
	1	Press OTP required field										
	1.1	Get OTP number through SMS by using phone number										
	1.2	Provide OTP number										
2	Push confirm button											
Alternative Flows	N/A											
Quality Requirements	Do not provide any number without OTP											

Use case -03	login												
Goal	It is very important for a shop owner and Corporation to login on this site because it allows them to know how many goods are in store, how many products have been sold and how much vat comes in at the end of the year and pay it without any hassle. Admin can also login to control this module.												
Precondition	Registration												
Success End Condition	Login successfully and accessed the system.												
Failed End Condition	Shop owners and corporations cannot store their goods, cannot find selling info and cannot calculate estimated vat. Admin cannot get access to control this module.												
Actors	Shop owners Corporations Admin												
Trigger	Login to the system												
Description	<table border="1"> <thead> <tr> <th>step</th><th>Action</th></tr> </thead> <tbody> <tr> <td>1</td><td>Sign Up to the system</td></tr> <tr> <td>1.1</td><td>Enter shop ID</td></tr> <tr> <td>1.2</td><td>User name</td></tr> <tr> <td>1.3</td><td>password</td></tr> <tr> <td>2</td><td>Push confirm button</td></tr> </tbody> </table>	step	Action	1	Sign Up to the system	1.1	Enter shop ID	1.2	User name	1.3	password	2	Push confirm button
step	Action												
1	Sign Up to the system												
1.1	Enter shop ID												
1.2	User name												
1.3	password												
2	Push confirm button												
Alternative Flows	N/A												

Quality Requirements	Don't provide the shop ID and password to others.
-----------------------------	---

Use case -04	Update profile																							
Goal	It is very important for the shop owner to save all his information when his profile is updated. Such as username, picture, phone number, email, Address, shop ID, registered number etc. are included in the update profile module.																							
Precondition	login																							
Success End Condition	Profile update successfully and show in his profile module.																							
Failed End Condition	If a user fails to update his profile, then he cannot view the dashboard.																							
Actors	Shop owner																							
Trigger	Update profile successfully																							
Description	<table><tr><th>Step</th><th>Action</th></tr><tr><td>1</td><td>Open update profile page</td></tr><tr><td>1.2</td><td>Push update button</td></tr><tr><td>2</td><td>Open update profile from</td></tr><tr><td>2.1</td><td>Enter user name</td></tr><tr><td>2.2</td><td>Enter shop Id</td></tr><tr><td>2.3</td><td>Enter phone number</td></tr><tr><td>2.4</td><td>Enter profile picture</td></tr><tr><td>2.5</td><td>Enter present address</td></tr><tr><td>2.6</td><td>Enter e-mail</td></tr><tr><td>3</td><td>Press confirm button</td></tr></table>		Step	Action	1	Open update profile page	1.2	Push update button	2	Open update profile from	2.1	Enter user name	2.2	Enter shop Id	2.3	Enter phone number	2.4	Enter profile picture	2.5	Enter present address	2.6	Enter e-mail	3	Press confirm button
Step	Action																							
1	Open update profile page																							
1.2	Push update button																							
2	Open update profile from																							
2.1	Enter user name																							
2.2	Enter shop Id																							
2.3	Enter phone number																							
2.4	Enter profile picture																							
2.5	Enter present address																							
2.6	Enter e-mail																							
3	Press confirm button																							

Alternative Flows	N/A
Quality Requirements	provide all of your valid information to make your profile more efficient

Use case -05	Dashboard							
Goal	Shop owners and corporations can know daily revenue, selling history and total vat at the end of a year. Admin can also view and control this.							
Precondition	Update profile							
Success End Condition	Successfully login to dashboard, known about selling statement and his/her actual vat.							
Failed End Condition	Users can not acknowledge accurate vat information and go through a lot of hassle.							
Actors	Shop owners Corporations Admin							
Trigger	View revenue, selling info and estimated vat properly							
Description	<table><tr><td>step</td><td>Action</td></tr><tr><td>1</td><td>Login to dashboard</td></tr><tr><td>2</td><td>View revenue, selling info and estimated vat</td></tr></table>		step	Action	1	Login to dashboard	2	View revenue, selling info and estimated vat
step	Action							
1	Login to dashboard							
2	View revenue, selling info and estimated vat							
Alternative Flows	N/A							
Quality Requirements	Check the dashboard every day to keep in touch with history and revenue sales							

Use case -06	Store builder															
Goal	Store owners and corporations can update how many products they have in stock, product types and how many.															
Precondition	N/A															
Success End Condition	Successfully input the goods types, goods name and their quantity.															
Failed End Condition	Shop owners and corporations cannot sell their products. Although there are plenty of stocks															
Actors	Shop owner corporation															
Trigger	Successfully store all kind of product info in store builder															
Description	<table><tr><td>step</td><td>Action</td></tr><tr><td>1</td><td>Open store builder page</td></tr><tr><td>2</td><td>Select product category</td></tr><tr><td>2.1</td><td>Product name</td></tr><tr><td>2.2</td><td>Product quantity</td></tr><tr><td>2.3</td><td>Product expiry date</td></tr><tr><td>3</td><td>Push update button.</td></tr></table>		step	Action	1	Open store builder page	2	Select product category	2.1	Product name	2.2	Product quantity	2.3	Product expiry date	3	Push update button.
step	Action															
1	Open store builder page															
2	Select product category															
2.1	Product name															
2.2	Product quantity															
2.3	Product expiry date															
3	Push update button.															
Alternative Flows	Include scanning method to update store builder															
Quality Requirements	Carefully inter all the product info in store builder															

Use case -07	Selling Info														
Goal	To sell a product, the owner has to select the products, then select the quantity of this product as well. As a result, in the selling info module, it will be seen how many types of goods the buyer has taken, how much the price and how much his total bill will come.														
Precondition	N/A														
Success End Condition	Successfully choose the goods types, goods name and their quantity.														
Failed End Condition	Shop owners and corporations cannot sell their products. Although there are plenty of stocks														
Actors	Shop owner, corporation														
Trigger	Successfully added all the products from store builder														
Description	<table border="1"> <thead> <tr> <th>step</th><th>Action</th></tr> </thead> <tbody> <tr> <td>1</td><td>Open store builder page</td></tr> <tr> <td>2</td><td>Select product category</td></tr> <tr> <td>2.1</td><td>Product name</td></tr> <tr> <td>2.2</td><td>Product quantity</td></tr> <tr> <td>2.3</td><td>Product expiry date</td></tr> <tr> <td>3</td><td>Push Select button.</td></tr> </tbody> </table>	step	Action	1	Open store builder page	2	Select product category	2.1	Product name	2.2	Product quantity	2.3	Product expiry date	3	Push Select button.
step	Action														
1	Open store builder page														
2	Select product category														
2.1	Product name														
2.2	Product quantity														
2.3	Product expiry date														
3	Push Select button.														
Alternative Flows	Include scanning method to add into the cart														
Quality Requirements	Carefully scan/choose all the product info from the store builder														

Use case -08	Preview														
Goal	Before confirming a bill, the owner must preview the bill. If it does not match the transaction, he may also edit the bill.														
Precondition	Select the products from selling info														
Success End Condition	Successfully check the goods customer will buy.														
Failed End Condition	Shop owners and corporations cannot have the right amount of products into the cart. Then end up with failure or loss.														
Actors	Shop owner, corporation														
Trigger	Successfully checked the goods customer will buy.														
Description	<table border="1"> <thead> <tr> <th>step</th><th>Action</th></tr> </thead> <tbody> <tr> <td>1</td><td>Open selling info</td></tr> <tr> <td>2</td><td>Select product category</td></tr> <tr> <td>2.1</td><td>Product name</td></tr> <tr> <td>2.2</td><td>Product quantity</td></tr> <tr> <td>2.3</td><td>Product expiry date</td></tr> <tr> <td>3</td><td>Push Preview button.</td></tr> </tbody> </table>	step	Action	1	Open selling info	2	Select product category	2.1	Product name	2.2	Product quantity	2.3	Product expiry date	3	Push Preview button.
step	Action														
1	Open selling info														
2	Select product category														
2.1	Product name														
2.2	Product quantity														
2.3	Product expiry date														
3	Push Preview button.														
Alternative Flows	N/A														
Quality Requirements	Carefully check all the product info from the store builder														

Use case -09	Confirmation														
Goal	To avoid erroneous calculation, owners can confirm the bill by previewing. This information will be updated on the dashboard as soon as the bill is confirmed.														
Precondition	Select the products and preview goods from selling info														
Success End Condition	Successfully confirmed the goods customer will buy.														
Failed End Condition	Shop owners and corporations cannot sell the products or goods.														
Actors	Shop owner, corporation														
Trigger	Successfully checked the goods customer will buy.														
Description	<table border="1"> <thead> <tr> <th>step</th><th>Action</th></tr> </thead> <tbody> <tr> <td>1</td><td>Open selling info</td></tr> <tr> <td>2</td><td>Select product category</td></tr> <tr> <td>2.1</td><td>Product name</td></tr> <tr> <td>2.2</td><td>Product quantity</td></tr> <tr> <td>2.3</td><td>Product expiry date</td></tr> <tr> <td>3</td><td>Push Preview button And press confirm.</td></tr> </tbody> </table>	step	Action	1	Open selling info	2	Select product category	2.1	Product name	2.2	Product quantity	2.3	Product expiry date	3	Push Preview button And press confirm.
step	Action														
1	Open selling info														
2	Select product category														
2.1	Product name														
2.2	Product quantity														
2.3	Product expiry date														
3	Push Preview button And press confirm.														
Alternative Flows	N/A														
Quality Requirements	Carefully check all the product info from the store builder														

Use case -10	Cash Memo																
Goal	When a bill is already confirmed this system automatically provides a cash memo which is also saved in this application.																
Precondition	Confirm the products at selling info.																
Success End Condition	Successfully give a cash memo to the customer.																
Failed End Condition	N/A																
Actors	Shop owner, corporation																
Trigger	Successfully print the bill.																
Description	<table border="1"> <thead> <tr> <th>step</th><th>Action</th></tr> </thead> <tbody> <tr> <td>1</td><td>Open selling info</td></tr> <tr> <td>2</td><td>Select product category</td></tr> <tr> <td>2.1</td><td>Product name</td></tr> <tr> <td>2.2</td><td>Product quantity</td></tr> <tr> <td>2.3</td><td>Product expiry date</td></tr> <tr> <td>3</td><td>Push Preview button And press confirm.</td></tr> <tr> <td>4.</td><td>Press cash memo</td></tr> </tbody> </table>	step	Action	1	Open selling info	2	Select product category	2.1	Product name	2.2	Product quantity	2.3	Product expiry date	3	Push Preview button And press confirm.	4.	Press cash memo
step	Action																
1	Open selling info																
2	Select product category																
2.1	Product name																
2.2	Product quantity																
2.3	Product expiry date																
3	Push Preview button And press confirm.																
4.	Press cash memo																
Alternative Flows	Let the customer to take a picture of the cash memo which include a barcode.																
Quality Requirements	Carefully check all the product info from the selling info.																

Use case -11	Online Payment																	
Goal	At the end of the year, total estimated VAT will show on the dashboard which can be paid through any online banking payment system. Online banking will include Bkash, Rocket Visa and Nagad etc. which will give the customer 10% cashback. Admin can track these transaction.																	
Precondition	Confirm the products at selling info.																	
Success End Condition	Successfully give the Tax to the Govt.																	
Failed End Condition	Retry																	
Actors	Shop owner, corporation																	
Trigger	Successfully Vat Given to the Govt.																	
Description	<table><tr><td>step</td><td>Action</td></tr><tr><td>1</td><td>Open Payment</td></tr><tr><td>2</td><td>Select Year</td></tr><tr><td>2.1</td><td>Select Bank name</td></tr><tr><td>2.2</td><td>Enter Bank Account/others Number.</td></tr><tr><td>2.3</td><td>Enter the phone number you gave during registration</td></tr><tr><td>3</td><td>Enter the pin code received from the phone.</td></tr><tr><td>4</td><td>Press confirm.</td></tr></table>		step	Action	1	Open Payment	2	Select Year	2.1	Select Bank name	2.2	Enter Bank Account/others Number.	2.3	Enter the phone number you gave during registration	3	Enter the pin code received from the phone.	4	Press confirm.
	step	Action																
	1	Open Payment																
	2	Select Year																
	2.1	Select Bank name																
	2.2	Enter Bank Account/others Number.																
	2.3	Enter the phone number you gave during registration																
	3	Enter the pin code received from the phone.																
4	Press confirm.																	

Alternative Flows	Let the shop-owner or corporation can go to the bank and pay their tax.
Quality Requirements	Carefully enter bank account number and pin number.

Use case -12	Notification
Goal	After making the online payment, the shop owner/corporation will receive a notification message. This will let you know if you paid properly. If there is any problem in the transaction, it will also be known through notification. Admin can also view this.
Precondition	Pay the tax
Success End Condition	Successfully received a message for giving tax.
Failed End Condition	N/A
Actors	Shop owner, corporation
Trigger	N/A
Description	N/A
Alternative Flows	N/A
Quality Requirements	N/A

Use case -13	Feedback					
Goal	Shop owners/ Internal Corporation workers will be able to report any problems related to this system through feedback, which can only be seen by the admin.					
Precondition	N/A					
Success End Condition	Successfully Submitted the issue.					
Failed End Condition	Try again					
Actors	Shop owner, corporation. Admin					
Trigger	Admin will received a notification in his account.					
Description	<table><tr><td>Action</td></tr><tr><td>Open Feedback</td></tr><tr><td>Select Complain Type</td></tr><tr><td>Complain Tittle Description Attributes</td></tr><tr><td>Press submit button</td></tr></table>	Action	Open Feedback	Select Complain Type	Complain Tittle Description Attributes	Press submit button
Action						
Open Feedback						
Select Complain Type						
Complain Tittle Description Attributes						
Press submit button						
Alternative Flows	Directly call the head office to solve the problem they are facing.					
Quality Requirements	N/A					