

SYSTEM REQUIREMENTS

Prepared for :

Land Commission

Prepared by :

Witcore Group
University of Ghana

TABLE OF CONTENTS

OVERVIEW

2

USE-CASE DIAGRAM

3

USER STORIES

4

PRE- AND POST- CONDITIONS

5

NON-FUNCTION REQUIREMENTS

6

GLOSSARY

7

OVERVIEW

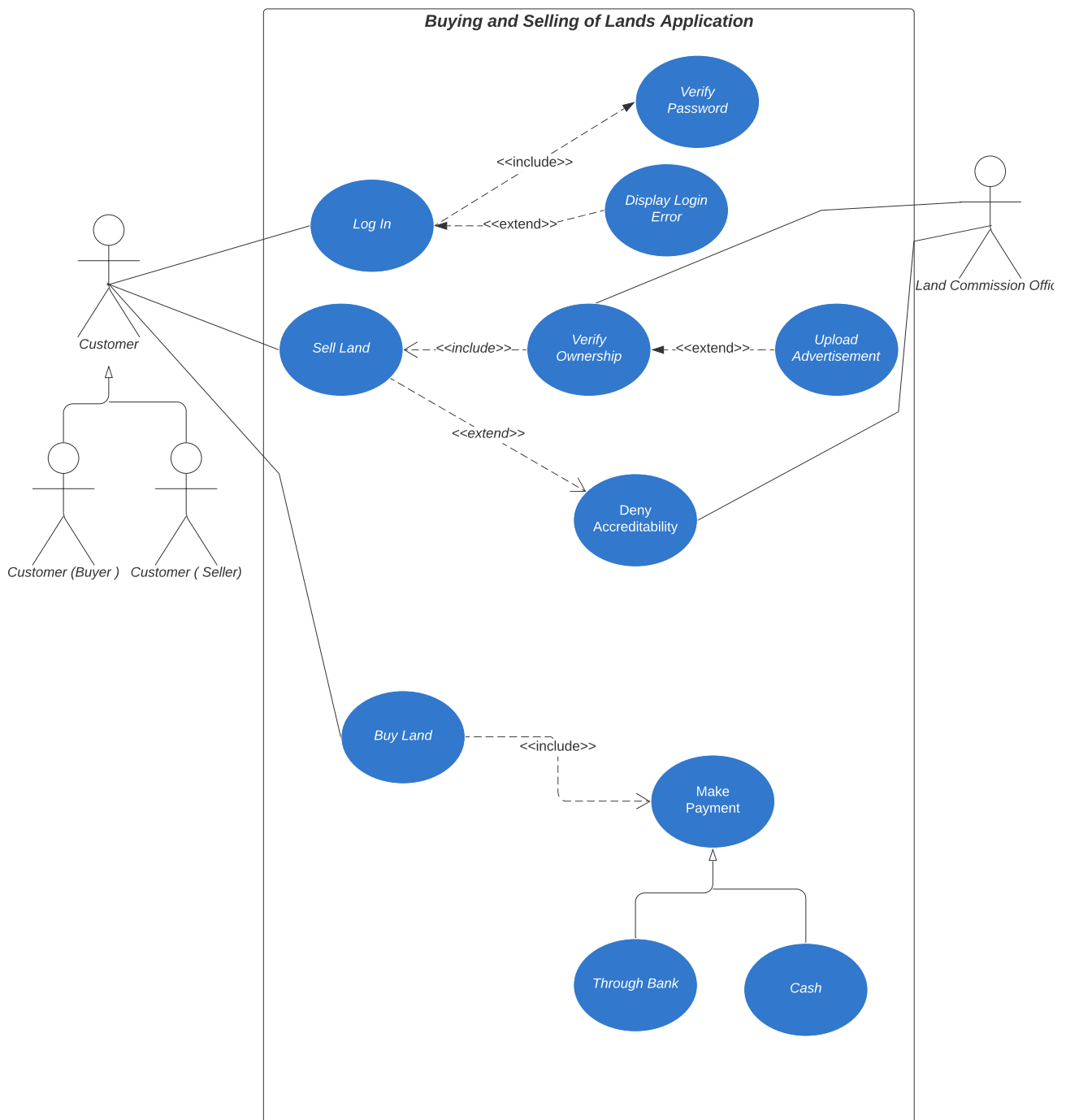
There are three kinds of customers rendered under the buying and selling of land transaction with the land commission; the buyer, the seller, the buyer who uses bank transactions.

Firstly, the customer is to create an account with a viable user-name and password that allows them to login and gain access to the needed information and the land commission packages. If login details are not corresponding then access to the information is denied and an error is generated.

For the customers who are interested in selling lands, the lands ownership is verified by the Land Commission Office after the account is created logged into and the option to sell is put in use. Any complications and no verified documents to support ownership leads to the Land Commission Office denying accreditability.

Once a customer pursuing to make a purchase from the land commission is successfully logged into the account, packages are made available and a request to view site plan and site details is made available based on preferences and available packages and services. Various forms of payments are made available after approval of the site. Payments are made to the land commission office by physical means of cash or bank transactions before there are proceedings of documents of ownership.

USE-CASE DIAGRAM



USER STORIES

1. Login – As customer (Buyer or Seller), I want to be able to access the platform via email address and password so that I can access my account.

2. Verify Password – As a customer (Buyer or Seller), I want my login details to be authenticated, this will prove my identity so that the system is aware of who I am.

3. Display Login Error – As a customer (Buyer or Seller) I want to be denied access once my details aren't matching with what is in the Systems database.

4. Sell Land – As a Seller, I want to sell land my uploading my indenture provided by my land surveyor as well as information pertaining to the land, including images of the land, Placeholder and vegetation. *(To be developed further)*

5. Upload Advertisement – As a seller, once my verification has been approved, I want my land to be uploaded for sale. This will allow buyers to see and also make purchases.

6. Verify Ownership – As a seller, I want my land details to be verified by the lands commission office to prove that the land is indeed mine. This is to prevent false ads from being posted. Unless I own a vested land *(To be developed further)*

7. Deny credibility – As a seller, if my land details don't match what is at the lands commission, I want to be denied being able to post my Ad. This will also prevent false Ads from being posted.

8. Buy Land – As a buyer, I want to be able to see the land available as well as details about them so that I can make a decision as to whether to buy it or not. This will save me travel cost. *(To be developed further)*

9. Make Payment – As a buyer, I want to make payments as well. Either using Bank Transfer or Cash Payment and have receipts sent to my account. Making transactions easier and more secure for both parties (Buyer and Seller).

PRE- AND POST- CONDITIONS

PRE-CONDCTIONS

1. A precondition for the use case Login (**User Story 1**): Before a customer can login, the customer would already have signed up for the platform before they can have access to it
2. A precondition for the use case Verify Password (**User Story 2**): Before a password can be verified, the customer would already have signed up for the platform, in the process of signing up they would have provided a password for verification purposes every time they login in
3. A precondition for the use case Display Login Error (**User Story 3**): Our database would have to be linked to the application in order to properly know when to display login error
4. A precondition for the use case Sell Land (**User Story 4**): Before this use case can take place, seller must first have a land indenture to start this process
5. A precondition for the use case Verify Ownership (**User Story 5**): Before this action takes place, a surveyor who has been verified by the land commission would have to had physically been to the sellers land first to produce an indenture
6. A precondition for the use case Deny Credibility (**User Story 6**): Seller would have had to provide information about themselves along side indenture produced by verified surveyor to the land commission office
7. A precondition for the use case Buy Land (**User Story 7**): Buyer must have an account on our platform before this use case can be executed
8. A precondition for the use case Make Payment (**User Story 8**): User would have to select which medium they would prefer to use to make payment

POST-CONDCTIONS

1. A postcondition for the use case Login (**User Story 1**): The customer would have access to the platform if their username and password match our user information database, otherwise access would be denied
2. A postcondition for the use case Verify Password (**User Story 2**): If password matches our database of that specific customers username, access shall be granted to use platform or else access shall be denied
3. A postcondition for the use case Display Login Error (**User Story 3**): If this error appears customer does not have access to the use of application
4. A postcondition for the use case Sell Land (**User Story 4**): If no land indenture is provided, seller can't take this action
5. A postcondition for the use case Verify Ownership (**User Story 5**): If verified land surveyor provides indenture, land commission office would start the process of performing background checks on the land and its owner
6. A postcondition for the use case Deny Credibility (**User Story 6**): If credibility is not approved by land commission office, seller cannot proceed to advertise land on platform
7. A postcondition for the use case Buy Land (**User Story 7**): GPS mapping would be provided to all interested customers who want to buy a land, so that they can also physically view what they are about to buy
8. A postcondition for the use case Make Payment (**User Story 8**): Both parties would be given a receipt to prove that a transaction has taken place between them

NON - FUNCTIONAL REQUIREMENTS

1. Consistency
2. Security
3. Reliability
4. Configuration managements
5. Support
6. Portability

GLOSSARY

Vested land : This is a land the government lays hold on and manages it because of a conflict between individuals/ parties claiming ownership of the land.

Indenture : According to the context of the app, it refers to the details of the land with a barcode including the key number and an approved stamp of the surveyor.

Placeholder : Holds the coordinates of the land.