



# AQUASPACE

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## SOFTWARE REQUIREMENT SPECIFICATION

Version 1.0

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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to give a detailed description of the requirements for our web application. It will illustrate the purpose and complete declaration for the development of system. This SRS document will provide a brief understanding of the study's background, the definition of the project problem statement, its objectives, scope, project justifications, risks, system's functional and non-functional requirements, system's architecture, and system's design.

This document contains the data related to analysis, design, and development of the system throughout its development cycle.

## 1.2 Document Conventions

SRS – Software Requirement Specification

User – The end user of the system, can be a buyer, seller or a store registered with the system

Expert – A user who has expertise regarding aquatic life

Admin – A user who administrates the system

## 1.3 Domain Description

Sri Lanka offers no one stop solution for prospective fish owners in obtaining all the necessary equipment and information needed to raise a fish. The current systems utilized have separated and scattered these necessities across multiple platforms.

1. Marketplaces/ Pet stores are used when obtaining pet fish. In most cases the equipment sold may not be the correct equipment needed for the specific type of fish or the fitting equipment may not be available from the same store. Multiple stores need to be visited to fulfill this need properly.
2. Social media is used as the main source of information exchange as there are multiple Facebook groups in Sri Lanka with a member base of 20 000 - 50 000. Often users do not receive answers for their questions as they get either pushed back due to the constant influx of messages.
3. Contacting an expert in fish rearing is often hard to achieve as it is done through word of mouth and is usually hard to contact.

This makes the process of raising a fish a time and cost inefficient process in Sri Lanka as all the activities are disjoint from each other. This inability of obtaining necessary guidance for fish rearing has resulted in many of these ornamental fish being abandoned in the Sri Lankan freshwater ecosystem and destruction of the habitats of our endemic fish species.

#### 1.4 Current System

The current system in place consists of marketplaces and various social media groups.

Marketplaces, both online and offline (e.g., Ikman.lk, newspaper ads), only provide a medium for buying and selling fish. Unless a buyer has previous knowledge of raising a fish, they cannot outright predict the necessary equipment the fish might need and sometimes might not even know basic care information needed. This leads to a waste of time and money and oftentimes discourages owners from raising fish.

Social media platforms (e.g., Facebook, WhatsApp) on the other hand only provide a way of connecting with other fish owners. Even though users join expecting a place for information sharing, oftentimes questions about basic fish care go unanswered for long periods of time or ignored. It is not a reliable way of obtaining necessary information.

## 1.5 Goal

To centralize the existing market of ornamental fish and related aquarium products onto one platform to make the process of obtaining and raising a fish a easier process for both beginners and hobbyists.

## 1.6 Objectives

The main objective of this project is to create a location based online platform where users can obtain fish, along with the necessary basic care instructions and equipment needed for that specific type of fish all in one place.

To promote adoption among the community instead of abandonment to water bodies by giving them a platform that will connect them with willing adoptees nearby efficiently.

To connect store owners with potential clients and to help build a consumer base with owners near them.

## 1.7 Assumptions

- All users will have access to the internet and own an email address.
- All users will have basic English literacy skills.
- User will provide truthful information when adding a post.

## 1.8 Constraints and Limitations

1. The system will only be cross-checking the name entered for the type of fish a seller will be selling to ensure its legality.
2. If a seller/ store account is automatically blocked after receiving more than the maximum number of reports they will still have access to their current ongoing orders.
3. A buyer can only enter one delivery address per checkout. If a buyer wants to ship items to multiple locations, they will have to check out twice.
4. The system will not be viable to how a fish is treated after adoption as it will only act as an intermediary for the adoption to take place. A user can place a report in the case of misconduct to have that individual removed from the site if required.
5. In the case of a refunds for order cancellations and returns, the buyer will be subjected to the systems refund policy,
  - a. The buyer will be fully refunded if the order has yet to be delivered
  - b. A store/ seller has the right to deny the refund for a return if the item is not in the same conditions, it was when delivering.
  - c. Live fish cannot be returned or refunded

## 2. Feasibility Study

The feasibility study carried out to determine the viability of the proposed project consists of five parts. Namely,

### 1. Technical Feasibility

Evaluation of the hardware, software, and other technical requirements of the system

### 2. Economic Feasibility

The costs that must be undertaken and the net benefit of the proposed system.

### 3. Legal and ethical Feasibility

Analysis of the legal and ethical requirements to be carried out by the system

### 4. Operational Feasibility

Analysis on how well the intended problem is solved by the proposed project.

### 5. Schedule Feasibility

Evaluation of the project timeline

### 2.1 Technical Feasibility

The project will be a complete web-based application and our team will be utilizing HTML, CSS, JavaScript for the front end and SQL, PHP services for the backend implementation. Visual Studio Code will be used as the primary IDE.

Other software tools to be used,

- XAMPP localhost software will be used to simulate the server and database.
- Google maps API
- GitHub Organizations will be used for task management as well as version control of the source code.

For diagramming,

- Adobe XD
- Adobe Illustrator
- Draw.io

For documentation and reports,

- Microsoft Office 365

Each of the above-mentioned programs are free or are available freely for the use of students.

The technical skills required are not too demanding and within the capabilities of the team

members.

From the above-mentioned points, the project is technically feasible.

## 2.2 Economic Feasibility

The development costs for the platform are expected to be at a minimum and all expenditures will be listed below.

- The platform being a web-based application will require a hosting fee, but for the initial deployment and development a free hosting service like AWS, which offers a 1-year free service will be used.
- The payment gateway will require a payment to be used for deployment.
- The agreement with third party delivery services will require a payment as determined by the service.
- There will be no software cost as mentioned under technical feasibility, all software tools and programs that will be used are free or available freely for students and require no expenses.
- There will be no additional hardware costs as personal computers will be used for the development of the project.

At the initial stage we are expecting to give users a maximum number of free posts before they get charged for using the service while the store owners will be charged based on a subscription method for using AquaSpace store functionalities for stores.

Initially volunteers who step in to be verified users will not be compensated but after a certain time period, we hope to pay them per their contribution to the platform from the revenue generated from the subscription to the Help Center.

Therefore, the system hosting expenditures can be covered using the generated revenue after a period of time and we conclude that the project is economically feasible in the long run.

## 2.3 Legal and Ethical Feasibility

### Legal Feasibility

As the proposed system is an e-commerce web application, under section 11-17 of the Electronic Transactions Act, No. 19 of 2006, electronic contracts used for business transactions will not be denied legal validity.

As such, A store is bound to the terms and conditions signed when registering to the system inclusive of the refund policy. When a buyer purchases items from the system the seller will be held responsible by the contracts they had agreed to.

The terms and conditions will clearly state that a store that agrees to it is only using the website acts as a conduit for their sales and the website is not assuming liability or responsibility for the

contract of sale. The separate contract of sale will ensure that the customer rights will be respected. This will clearly indicate the availability of the products, when the contract is formed, responsibility for delivery, product liability and refund policy.

All sellers will not be able to sell any fish listed under the restricted for sales section of the Fisheries and Aquatic Resources Act, 1996 and the Fauna and Flaura Protection Act, 2009. The sale of these fish is prohibited through the system and all sellers will be contractually bound to adhere this.

### Ethical Feasibility

User data used for logic including, name, email and passwords will not be sold or given access to for any third parties under any circumstances.

User data will not be revealed to other users of the system.

The administrator has the rights to remove any user or any post that contains harmful misinformation.

Payment data will only be provided to trusted payment providers.

### 2.4 Operational Feasibility

The target audience intended to be the end users of the system are the community of fish owners, hobbyists, and the aquarium stores in Sri Lanka

#### **For a guest user registering to the system,**

The system shall provide a centralized marketplace and a guided process for selecting and raising a fish so the user will benefit by saving the cost and time browsing the otherwise inaccessible and scattered market.

#### **For a store registered as a business vendor in the system,**

The stores will benefit from the system as it shall allow them to maintain their digital storefront and to manage their content, inventory and sales done through the system. The aquatic supply vendors will have an easy and hassle-free method of creating and upholding a digital store.

#### **When using the system,**

Users will be required to have basic English literacy skills and as majority of the community is currently spread across Facebook it can be assumed that this will not pose a problem.

Store owners will require only basic knowledge in IT to use the offered functionalities and can refer to the FAQ to understand the system,

A personal digital device and an internet connection is needed to access the system.

## 2.5 Schedule Feasibility

The timeframe provided for the project is from the start to the end of the academic year. We have opted to follow the waterfall methodology when developing the system as the requirements gathered have been satisfactory and are noticeably clear. The number of features to be implemented as decided will be possible within the given timeline.

Accordingly, we can guarantee that this project will be completed before the expected deadlines.

The following chart depicts the projected timeline,

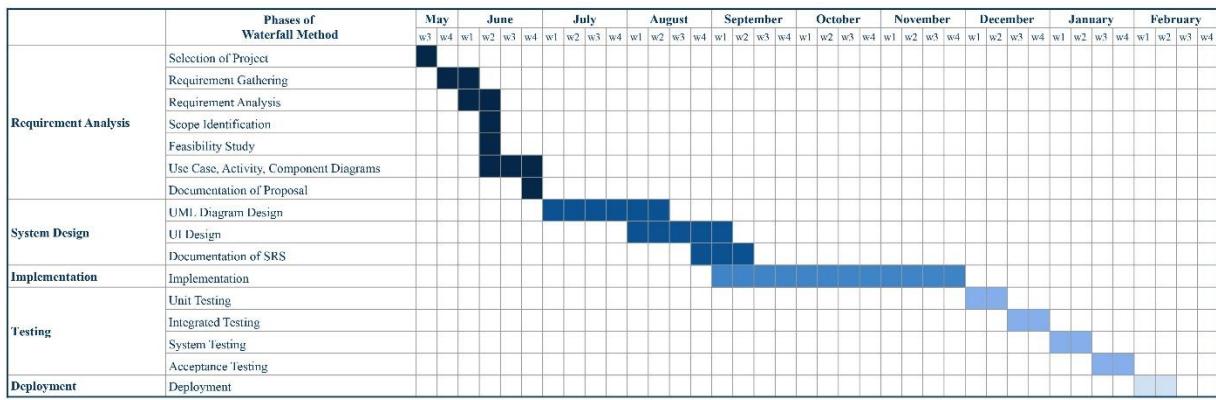


Figure 2.5.1 Gantt Chart

### 3. Requirements

#### 3.1 Stakeholders

The system consists of five identified user roles namely,

- Guest User
- Registered User
- Store
- Administrator
- Verified Expert

The stakeholder Registered User will have three specialized roles,

- Buyer
- Seller
- Adoptee

### 3.2 Use Cases

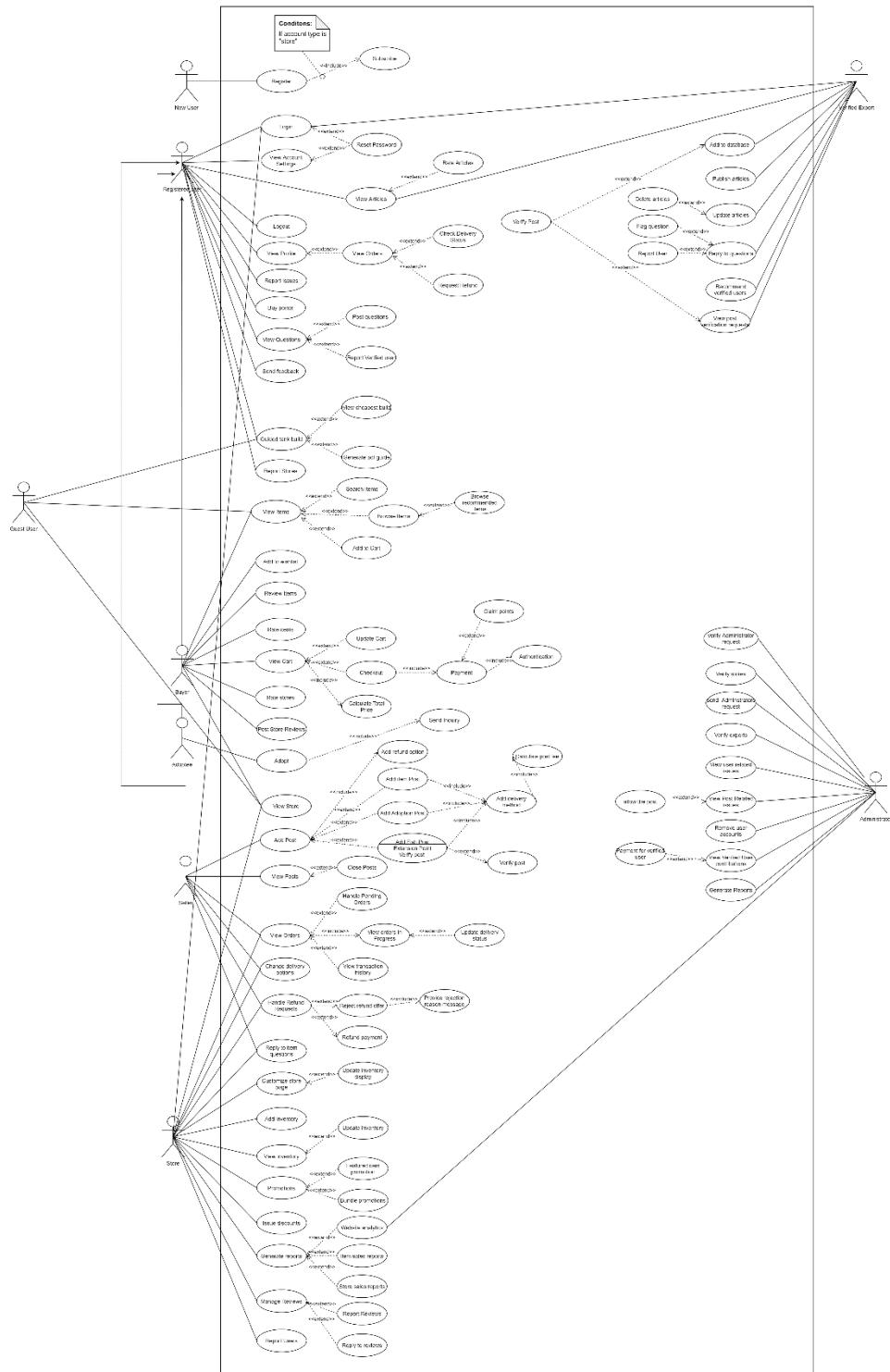


Figure 3.2.1 Use Case Diagram

([https://drive.google.com/file/d/1UdsVstrRwXpvQ3EaU5lsxt9t\\_Z9AY8\\_v/view?usp=sharing](https://drive.google.com/file/d/1UdsVstrRwXpvQ3EaU5lsxt9t_Z9AY8_v/view?usp=sharing))

*Table 3.2.1 Narrative for Register*

Use case	Register
Summary	A new user can register to the website and create their profile
Actors	Registered User
Pre-conditions	None
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Regular Account’ in the signup page</li> <li>2. The user enters first name last name, profile picture, email address and password</li> <li>3. The system will prompt the user to re-enter the password</li> <li>4. The user shall agree to the terms and conditions of the website.</li> <li>5. The user will receive an e-mail verification to authenticate login.</li> <li>6. The user will then be asked to select tags of products the user is interested in.</li> </ol>
Alternate Flows	None
Post-conditions	A new Registered User account is created.

*Table 3.2.2 Narrative for Login*

Use case	Login
Summary	A user can login to an existing account.
Actors	Registered User
Pre-conditions	The user has a pre-existing account in the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Sign In’ from the landing page</li> <li>2. The user enters their email and password</li> <li>3. The user confirms ‘Login’</li> </ol>
Alternate Flows	If the user has forgotten their password, 2. The user selects ‘Forgot Password’ 3. The system redirects the user to the Reset Password page.
Post-conditions	The user has logged in to the system.

*Table 3.2.3 Narrative for View Account Settings*

Use case	View Account Settings
Summary	The user can update account details entered to the system.
Actors	Registered User
Pre-conditions	Logged into the system.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Account Settings’ from the user profile page.</li> <li>2. The user selects the fields that need to be changed.</li> <li>3. For select fields such as email and shipping address user will be prompted to re-confirm password and will be sent an email with the changes.</li> <li>4. The user submits the changes</li> </ol>
Alternate Flows	None
Post-conditions	The user will be redirected to the updated profile page

*Table 3.2.4 Narrative for Reset Password*

Use case	Reset Password
Summary	The user can change the account password
Actors	Registered User
Pre-conditions	Have a pre-existing account
Description / Main flow	<ol style="list-style-type: none"> <li>1. Go to account settings and select ‘Reset Password’</li> <li>2. Enter e-mail address, the system will send an e-mail containing a link to reset the password</li> <li>3. The user will be prompted to enter new password from the link received</li> <li>4. The user confirms the new password</li> </ol>
Alternate Flows	None
Post-conditions	The user has changed their password

*Table 3.2.5 Narrative for Logout*

Use case	Logout
Summary	The user logs out of the system

Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Logout’ from the navigation bar</li> <li>2. The system redirects the user to the landing page</li> </ol>
Alternate Flows	None
Post-conditions	The user is logged out and redirected to the landing page.

*Table 3.2.6 Narrative for View Profile*

Use case	View Profile
Summary	The user can view their profile details saved in the system.
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects the profile icon from the navigation bar.</li> <li>2. The system displays user details, cart, wishlist and active posts of the user.</li> </ol>
Alternate Flows	None
Post-conditions	The user is redirected to their profile page.

*Table 3.2.7 Narrative for Send Feedback*

Use case	Send Feedback
Summary	The user can send issues and feedback to the system administration
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Contact Us’ from the site footer</li> <li>2. The user selects the categories they are providing feedback for.</li> <li>3. The user submits the form.</li> </ol>
Alternate Flows	None
Post-conditions	The system administration receives the feedback.

*Table 3.2.8 Narrative for Buy Coins*

Use case	Buy Coins
Summary	The user can obtain points to ask questions from a Verified Expert
Actors	Registered User
Pre-conditions	Logged into the system and
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Buy Points’ under Coin interface</li> <li>2. The system displays the prices and points the user can obtain.</li> <li>3. The user selects the relevant number of points</li> <li>4. The user enters the payment details</li> <li>5. An email and an onsite notification will be sent to the user once the payment has been processed.</li> </ol>
Alternate Flows	None
Post-conditions	The user has obtained a number of points.

*Table 3.2.9 Narrative for Guided Tank Build*

Use case	Guided tank build
Summary	The system provides a checklist of instructions and items needed to build a tank for a specific fish and cost approximation.
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Build a Tank’ from the landing page</li> <li>2. The user selects the type of fish</li> <li>3. The system generates a checklist of instructions needed for the selected fish and the items that are necessary to raise it.</li> <li>4. The system displays all items from all stores that match with the requirements.</li> </ol>
Alternate Flows	<ol style="list-style-type: none"> <li>5. The user can select ‘Generate Best Deal’ and the system will filter and present the cheapest combination of items that are needed to build the tank.</li> </ol>
Post-conditions	The system generates a tank build with the cost approximation for a select type of fish.

*Table 3.2.10 Narrative for Report Store*

Use case	Report Store
Summary	The user can report a store for misconduct
Actors	Registered User
Pre-conditions	The user must have placed an order with the store being reported.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Report’ under the relevant store page</li> <li>2. The user selects the reason for reporting the store.</li> <li>3. The user fills in the form with further clarification.</li> <li>4. The report is submitted, and a copy of the report will be sent to the users email.</li> </ol>
Alternate Flows	None
Post-conditions	The system administration receives a report regarding a store.

*Table 3.2.11 Narrative for View Items*

Use case	View Items
Summary	The user can view all details, reviews and descriptions of an item or a fish for sale
Actors	Registered User
Pre-conditions	None
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects the item, and the system will redirect the user to the relevant product page</li> <li>2. The user can view product images, price, description, reviews for the item</li> <li>3. The user can select ‘Post Question’ under questions to ask for more information.</li> <li>4. The system will display articles from the blog related to the item under ‘Learn more about the product’ section.</li> </ol>
Alternate Flows	None
Post-conditions	The system shall give users full details on a product.

*Table 3.2.12 Narrative for Search Items*

Use case	Search Items
Summary	The user can enter a keyword or use filters to search for a product
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user enters the keyword in the search bar</li> <li>2. The user can select 'More Options' next to the search bar for all filters available.</li> <li>3. The user can search and sort from location, price range and category.</li> <li>4. The user selects 'Search'</li> <li>5. The system will display the relevant results.</li> </ol>
Alternate Flows	If the search keyword is invalid, <ol style="list-style-type: none"> <li>5. The user will be shown an error message in the search bar.</li> </ol>
Post-conditions	The items that match the search are displayed by the system.

*Table 3.2.13 Narrative for Add to Cart*

Use case	Add to Cart
Summary	The user can add an item or a fish to their cart to purchase it
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user opens the relevant product page</li> <li>2. The user selects the quantity (if listed), delivery option and selects 'Add to Cart'</li> <li>3. The system will prompt the user to enter their current location.</li> <li>4. If the user is within the delivery radius the item will be added to their cart.</li> </ol>
Alternate Flows	None
Post-conditions	The user can continue browsing or proceed to checkout

*Table 3.2.14 Narrative for Add to Wishlist*

Use case	Add to Wishlist
Summary	The user can add an item to their wishlist
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	If the item is out of stock, or out of delivery range the user can add the item to their wishlist to be notified if made available. 1. The user selects 'Add to Wishlist' 2. The item will be added to the users wishlist.
Alternate Flows	To add to cart after the item is made available, 1. Select 'Add to Cart' under the item in the wishlist page. 2. The item will be removed from the wishlist and added to the users cart
Post-conditions	The item will be added to the users wishlist.

*Table 3.2.15 Narrative for Review Item*

Use case	Review Item
Summary	The user can leave a written review for a product they have purchased.
Actors	Registered User
Pre-conditions	The user has purchased the product
Description / Main flow	1. The user selects 'Post Review' under the review section of the relevant product page 2. The user can enter the review and post a maximum of two images of the product received. 3. The system will prompt the user to rate the item if they have not rated it before. 4. The user posts the review.
Alternate Flows	None
Post-conditions	A new review is posted under the relevant product page.

*Table 3.2.16 Narrative for Rate Item*

Use case	Rate Item
Summary	The user can leave a rating from one to five on a product they have purchased.
Actors	Registered User
Pre-conditions	The user has purchased the product
Description / Main flow	<ol style="list-style-type: none"> <li>1. After the user updates their order as ‘Received’ the system will prompt the user to enter a rating from one to five stars.</li> <li>2. The user can select the relevant number of stars.</li> <li>3. The rating will be added to the item ratings and the new average rating will be calculated.</li> </ol>
Alternate Flows	The user can post a rating for the item from its relevant product page instead.
Post-conditions	The new average rating for the item will be displayed for the users.

*Table 3.2.17 Narrative for View Cart*

Use case	View Cart
Summary	The user can view all the items and current total currently in their cart.
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Cart’ from the navigation bar</li> <li>2. The user is redirected to their cart which includes all the items added to cart.</li> <li>3. The total excluding shipping costs will be displayed by the system.</li> </ol>
Alternate Flows	None
Post-conditions	The user can update or checkout the items in their cart.

*Table 3.2.18 Narrative for Update Cart*

Use case	Update Cart
Summary	The user can change, remove items in the cart

Actors	Registered User
Pre-conditions	Logged into the system and has at least one item in the cart.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects the relevant item from the cart</li> <li>2. The user will be redirected to the product page of the item</li> <li>3. The user can select 'Remove from Cart' under the product description</li> <li>4. The item will be removed from the cart.</li> </ol>
Alternate Flows	If the user wants to increase the number of quantities of the item, <ol style="list-style-type: none"> <li>3. The user can increase the number of items and the system will display 'Add to Cart' option when the quantity is changed.</li> </ol>
Post-conditions	The items in the cart will be updated.

Table 3.2.19 Narrative for Checkout

Use case	Checkout
Summary	The user can purchase all items present in the cart.
Actors	Registered User
Pre-conditions	Logged into the system and has at least one item in the cart.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects 'Checkout' from the cart.</li> <li>2. The user enters billing their select shipping address.</li> <li>3. The total price including shipping will be calculated by the system.</li> <li>4. The system will display an order summary for the user.</li> <li>5. The user enters billing details including payment details and billing address.</li> <li>6. The system will display all non-refundable items for the user before confirmation.</li> <li>7. The user confirms the order.</li> <li>8. The payment will be processed once the order is confirmed by the relevant sellers and stores.</li> <li>9. The user will receive an invoice via email once the payment is processed.</li> </ol>
Alternate Flows	If the items the user has selected are not available for delivery for the selected shipping address, <ol style="list-style-type: none"> <li>3. The system will display unavailable items to user and ask the user to continue with the order without these items or to cancel the order.</li> </ol>

	If the user wants to cancel the order, 6. The user will be redirected to the cart page without checking out the items.
Post-conditions	Orders will be placed for the items in the user's cart upon checkout.

*Table 3.2.20 Narrative for Calculate Total Price*

Use case	Calculate total price
Summary	The total price excluding shipping prices will be displayed on the cart
Actors	Registered User
Pre-conditions	Logged in and has at least one item in the cart.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects the 'Cart' option from the navigation bar</li> <li>2. The system calculates the current total for the items added to the cart including discounts</li> </ol>
Alternate Flows	None
Post-conditions	The total price for the items present in the cart can be viewed at all times.

*Table 3.2.21 Narrative for Adopt*

Use case	Adopt
Summary	The user can adopt a fish categorized as 'Up For Adoption'
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects a post that has been displayed under 'Adoptions'</li> <li>2. The user selects 'Adopt' under the post</li> </ol>
Alternate Flows	None
Post-conditions	The user can send an inquiry to adopt the fish.

*Table 3.2.22 Narrative for Send Inquiry*

Use case	Send Inquiry
Summary	The user can send inquiry to adopt a fish
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ul style="list-style-type: none"> <li>1. The system will prompt the user to enter the current items they can provide for the fish.</li> <li>2. An inquiry will be sent to the owner of the post.</li> </ul> <p>The user will be notified when the owner of the post accepts or rejects an inquiry.</p>
Alternate Flows	None
Post-conditions	The post owner will notify the user if the fish can be adopted.

*Table 3.2.23 Narrative for Rate Store*

Use case	Rate Store
Summary	The user can leave a rating from one to five for a store
Actors	Registered User
Pre-conditions	Logged into the system and has made an order from the store.
Description / Main flow	<ul style="list-style-type: none"> <li>1. The user selects the relevant star from one to five on the top of the reviews section of a store page.</li> <li>2. The rating is submitted, and the new average rating is displayed on the store page.</li> </ul>
Alternate Flows	<ul style="list-style-type: none"> <li>3. If the user has not ordered through the relevant store an error message will be displayed.</li> </ul>
Post-conditions	The store page will display the new average rating.

*Table 3.2.24 Narrative for Review Store*

Use case	Review Store
Summary	The user can leave a written review for a store

Actors	Registered User
Pre-conditions	Logged into the system.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Review’ under the relevant store page.</li> <li>2. The user enters review message within the given limits.</li> <li>3. The system prompts the user to enter a rating if the user has not given the store a rating beforehand.</li> <li>4. The user submits the review.</li> </ol>
Alternate Flows	None
Post-conditions	A new review is posted on the store page.

Table 3.2.25 Narrative for View Store

	View Store
Summary	The user can view and sort through the digital storefront of a store registered to the system.
Actors	Registered User
Pre-conditions	Logged into the system.
Description / Main flow	None
Alternate Flows	None
Post-conditions	The user is redirected to the relevant store page.

Table 3.2.26 Narrative for Add Item Post

Use case	Add Item Post
Summary	Create a new post to sell an item
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Item’ from the ‘Add Post’ page</li> <li>2. The user selects the relevant category for the item.</li> <li>3. The user inputs name, price, delivery options, payment options and images of the item.</li> </ol>

	<ol style="list-style-type: none"> <li>4. The user selects the life span of the post.</li> <li>5. The system calculates the amount needed to be paid for the creation of the post.</li> <li>6. The user enters their payment details, and the payment is processed.</li> <li>7. The user will be notified of the payment onsite and via email</li> </ol>
Alternate Flows	None
Post-conditions	A new post is created under the relevant 'Item' category and can be viewed from the user's active post sections as well.

*Table 3.2.27 Narrative for Add Adoption Post*

Use case	Add adoption post
Summary	Create an adoption post for a fish
Actors	Registered User
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects 'Fish' from the 'Add Post' page</li> <li>2. The user selects the type of fish from the list of names provided by the system.</li> <li>3. The system fills in the care detail and basic items needed sections.</li> <li>4. The user selects the option 'For Adoption'</li> <li>5. The user inputs delivery options and images of the fish.</li> <li>6. The user confirms the creation of the post.</li> </ol>
Alternate Flows	None
Post-conditions	A new adoption post is created under the 'Fish' Category and can be viewed from the user's active post sections as well.

*Table 3.2.28 Narrative for Add Fish Post*

Use case	Add Fish Post
Summary	Create a post to sell a fish
Actors	Registered User
Pre-conditions	Logged in

Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Fish’ from the ‘Add Post’ page</li> <li>2. The user selects the type of fish from the list of names provided by the system.</li> <li>3. The system fills in the care detail and basic items needed sections.</li> <li>4. The user selects the option ‘To sell’</li> <li>5. The user inputs the price, delivery options, payment options and images of the fish being sold.</li> <li>6. The user selects the life span of the post.</li> <li>7. The system calculates the amount needed to be paid for the creation of the post.</li> <li>8. The user enters their payment details, and the payment is processed.</li> <li>9. The user will be notified of the payment onsite and via email</li> </ol>
Alternate Flows	<ol style="list-style-type: none"> <li>5. The fish is not listed in the database and the user will be prompted to verify the post before creation.</li> </ol>
Post-conditions	A new post will be created under the ‘Fish’ category and can be viewed from the user’s active post sections as well.

Table 3.2.29 Narrative for Verify Post

Use case	Verify Post
Summary	The user could request for their post to be verified if the fish listed is not in the database
Actors	Registered User
Pre-conditions	Create a post for a fish not listed in the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user confirms the message ‘Request New Addition’ that will be shown by the system when the fish is not in the database.</li> <li>2. The user will be requested to fill in basic details for the request.</li> <li>3. The system will forward the request to a Verified Expert and the system administration.</li> <li>4. The user will be notified within 3 – 4 days of the update of the post.</li> </ol>
Alternate Flows	None
Post-conditions	The request will be handled by the system administration.

*Table 3.2.30 Narrative for Register (store)*

Use case	Register
Summary	A new store can register to the system
Actors	Store
Pre-conditions	None
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘store account’ on sign up page</li> <li>2. The user enters store details including company name, Registration number, telephone number, store address and the name, ID number and telephone number of store manager</li> <li>3. The user selects the delivery modes they wish to use</li> <li>4. Agree to the terms and conditions and refund policy</li> </ol>
Alternate Flows	<p>If the store has an in-house delivery system,</p> <ol style="list-style-type: none"> <li>5. Enter shipping rates charged as prompted by the system.</li> <li>6. The user confirms the entered details.</li> <li>7. Agree to the terms and conditions and refund policy.</li> </ol>
Post-conditions	The store is directed to the store dashboard

*Table 3.2.31 Narrative for View Orders*

Use case	View Orders
Summary	A store can view all pending, current, and past orders they have received
Actors	Store, Seller
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Orders’ from the dashboard</li> <li>2. System displays three options, ‘Pending Orders’, ‘Current Orders’ and ‘Past Orders’</li> <li>3. The user selects the order list they wish to view.</li> </ol>
Alternate Flows	None
Post-conditions	The user is directed to the relevant order page

*Table 3.2.32 Narrative for View Pending Orders*

Use case	View Pending Orders
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Summary	The user can accept orders and update shipping status
Actors	Store, Seller
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The system displays all pending orders from newest to oldest.</li> <li>2. The user selects an order and clicks on 'Confirm Order'</li> <li>3. The system notifies the buyer that the order has been confirmed.</li> <li>4. The user selects then clicks on 'Update Shipping Status'</li> <li>5. The user changes the status to 'shipping in progress'</li> </ol> <p>If the delivery mode is a third-party service,</p> <ol style="list-style-type: none"> <li>6. The user adds the tracking ID to the order</li> </ol>
Alternate Flows	<p>If the order is cancelled by the seller,</p> <ol style="list-style-type: none"> <li>2. The user selects 'Cancel Order'</li> <li>3. The user is redirected to the 'Pending orders' page</li> </ol>
Post-conditions	The system updates the order to the 'Current Orders' section and removes it from pending orders

Table 3.2.33 Narrative for View Current Orders

Use case	View Current Orders
Summary	The user can view all orders that are in the process of being shipped out.
Actors	Store, Seller
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The system displays all orders that have their status as 'Shipping in progress' with late shipments on the top and then from newest to oldest dates shipped.</li> <li>2. The user selects an order that has been delivered and clicks on 'Update Shipping Status'</li> <li>3. The user changes the status to 'Delivered'</li> </ol>
Alternate Flows	None
Post-conditions	The system transfers the order to the 'Past Orders' section from the 'Current Orders' section.

*Table 3.2.34 Narrative for Change Delivery Option*

Use case	Change delivery option
Summary	The store can change the delivery options offered to a buyer
Actors	Store
Pre-conditions	Logged into the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Settings’ from the dashboard</li> <li>2. The user selects ‘Delivery methods’</li> <li>3. The user selects the relevant modes of delivery that can be offered.</li> <li>4. The system prompts the user to enter the necessary details required.</li> </ol>
Alternate Flows	None
Post-conditions	The user has changed the modes of delivery available that can be listed with their products.

*Table 3.2.35 Narrative for Handle Refund Requests*

Use case	Handle Refund requests
Summary	The store can either accept refunds and refund the user or reject the refund request.
Actors	Store
Pre-conditions	The store has received a refund request.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Refunds and Returns’ from the dashboard</li> <li>2. The system lists the refund requests received from newest to oldest.</li> <li>3. The user selects a request, and the system displays the message and item being requested for a refund.</li> </ol> <p>If the store accepts the request,</p> <ol style="list-style-type: none"> <li>4. The user selects ‘Accept Request’</li> <li>5. The system then generates the refund value to be paid.</li> <li>6. The user confirms the refund.</li> </ol>
Alternate Flows	<p>If the store rejects the request,</p> <ol style="list-style-type: none"> <li>4. The user selects ‘Reject Request’</li> <li>5. The system prompts the store to enter the reason for rejecting the request.</li> </ol>

	6. The reason is stored in the system.
Post-conditions	A refund request is transferred to 'Past Requests'

*Table 3.2.36 Narrative for Reply to Item Questions*

Use case	Reply to item questions
Summary	The user can reply to questions posted on product pages.
Actors	Store
Pre-conditions	Logged into the system and product has been posted.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects 'Reviews and Questions' from the dashboard</li> <li>2. The system displays the questions from latest to oldest.</li> <li>3. The user selects a question.</li> <li>4. The user is redirected to the product page with the question.</li> <li>5. The user selects 'Reply to message' and enters the reply.</li> <li>6. The user confirms the reply.</li> <li>7. The system notifies the original poster of the reply.</li> </ol>
Alternate Flows	None
Post-conditions	A reply has been posted to the question.

*Table 3.2.37 Narrative for Customize Storefront*

Use case	Customize storefront
Summary	The user can change the display page of the store.
Actors	Store
Pre-conditions	Logged into the system.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects 'Storefront' from the dashboard</li> <li>2. The user selects 'Edit Storefront'</li> <li>3. The user can change the display picture and the store description</li> <li>4. The user can activate or disable product listing sections such as featured items, new arrivals, and best sellers.</li> <li>5. The user can add, delete items shown in the featured items section.</li> </ol>
Alternate Flows	None

Post-conditions	The user has customized the storefront.
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*Table 3.2.38 Narrative for Add Inventory*

Use case	Add inventory
Summary	The user can add items to the inventory.
Actors	Store
Pre-conditions	Logged into the system
Description / Main flow	<p>1. The user selects ‘Inventory’ from the store dashboard.  To add new item,</p> <ol style="list-style-type: none"> <li>2. The user selects ‘Add New Item’</li> <li>3. The user enters the name, display images, the number of items available, price, delivery options and an item description.</li> <li>4. The system prompts the user to select the necessary tags for the item.</li> <li>5. The system displays a preview of the product page.</li> <li>6. The user confirms the new item addition.</li> </ol>
Alternate Flows	None
Post-conditions	The inventory is updated as specified by the user.

*Table 3.2.39 Narrative for View Inventory*

Use case	View inventory
Summary	The user can view, update the inventory listed for their store.
Actors	Store
Pre-conditions	Logged into the system
Description / Main flow	<p>1. The system displays all items the user has added to their inventory.</p> <p>2. The user can filter the results for number of items available from product and alphabetically.</p>
Alternate Flows	<p>To activate an existing item,</p> <ol style="list-style-type: none"> <li>1. The user selects the item from the list of disabled items.</li> <li>2. The user selects ‘Activate’</li> <li>3. The user enters the number of items available for restock.</li> <li>4. The system updates the item status and makes it visible in product</li> </ol>

	<p>listings.</p> <p>To disable an existing item,</p> <ol style="list-style-type: none"> <li>1. The user selects the item from the list of available items.</li> </ol> <p>The user selects ‘Disable’ and the product is hidden from all product listings.</p>
Post-conditions	The user can view, select and sort all products in their inventory.

*Table 3.2.40 Narrative for Issue Promotions and Discounts*

Use case	Issue Promotions and Discounts
Summary	The user can create discount codes and create promotions.
Actors	Store
Pre-conditions	Logged into the system
Description / Main flow	<p>1. The user selects ‘Promotions and Discounts’ from the store dashboard.</p> <p>To issue a discount code,</p> <ol style="list-style-type: none"> <li>2. The user selects ‘Discounts’</li> <li>3. The user can select generate a discount code for all items or select items.</li> <li>4. The user can select the discount percentage and the system will calculate the relevant discount.</li> <li>5. The system shall display the discount with the relevant product page.</li> </ol>
Alternate Flows	<p>For promotions,</p> <ol style="list-style-type: none"> <li>1. The user selects ‘Promotions’</li> <li>2. The user selects the relevant promotion type.</li> <li>3. The user is redirected to the promotion page.</li> </ol>
Post-conditions	The user issues a discount.

*Table 3.2.41 Narrative for Featured Item Promotions*

Use case	Featured Item promotions
Summary	The user can feature their products on the search page.
Actors	Store
Pre-conditions	Logged into the system and has items in the inventory.

Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Feature Items’</li> <li>2. The system displays all categories the user is eligible to feature their items in.</li> <li>3. The user selects the relevant category.</li> <li>4. The user selects the item and the length of time of the feature.</li> <li>5. The system calculates the amount necessary to feature the item.</li> </ol>
Alternate Flows	None
Post-conditions	The user lists an item as a featured item.

*Table 3.2.42 Narrative for Bundle Promotions*

Use case	Bundle Promotions
Summary	The user can create a bundle promotion.
Actors	Store
Pre-conditions	Logged into the system and has more than one item in the inventory.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Bundle Promotions’</li> <li>2. The system will auto-generate and display items that will be beneficial as bundles.</li> <li>3. The user selects a system generated bundle or manually selects the relevant items from their inventory.</li> <li>4. The user can issue the necessary price reduction percentage.</li> <li>5. The system will calculate the new prices.</li> </ol>
Alternate Flows	None
Post-conditions	The system will update a new bundle promotion for the store.

*Table 3.2.43 Narrative for Generate Reports*

Use case	Generate Reports
Summary	The user can generate reports regarding store activities.
Actors	Store
Pre-conditions	Logged into the system.
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Reports’ from the dashboard.</li> <li>2. The user can select to generate reports for sales store-wide or item sales.</li> </ol>

	3. The user will be able to see a periodically updated site-wide analytics report.
Alternate Flows	None
Post-conditions	The system generates the relevant report.

*Table 3.2.44 Narrative for Manage Reviews*

Use case	Manage Reviews
Summary	The user can handle the reviews received for the store and its products.
Actors	Store
Pre-conditions	Logged into the system and receive a review.
Description / Main flow	<ol style="list-style-type: none"> <li>1. Select ‘Reviews and Questions’ from the store dashboard.</li> <li>2. The system displays the reviews received for the store in chronological order.</li> <li>3. The user can select filters to view reviews item-wise, store-wise or reported reviews.</li> <li>4. The user can select a review to view it on the storefront or the product page.</li> </ol>
Alternate Flows	None
Post-conditions	The user is redirected to the relevant review.

*Table 3.2.45 Narrative for Report Reviews*

Use case	Report Reviews
Summary	The user can report reviews left on products and their store.
Actors	Store
Pre-conditions	Receive a report
Description / Main flow	<ol style="list-style-type: none"> <li>1. Click on ‘Report’ on the review</li> <li>2. Enter reason for report when the system prompts it.</li> <li>3. The user submits the report.</li> <li>4. The report is sent to the administrator.</li> </ol> <p>If the report is approved,</p> <ol style="list-style-type: none"> <li>5. The user is notified via email and in site on the dashboard.</li> <li>6. The system deletes the review from the relevant page.</li> </ol>

Alternate Flows	If the report is rejected, 1. The user is notified via email and in site on the dashboard.
Post-conditions	An untruthful review is reported.

*Table 3.2.46 Narrative for Report User*

Use case	Report User
Summary	A store can report a Registered User account.
Actors	Store
Pre-conditions	Logged into the system.
Description / Main flow	<ol style="list-style-type: none"> <li>1. Select the relevant user account.</li> <li>2. Select ‘Report’ under the user account</li> <li>3. Enter reason for report when the system prompts it.</li> <li>4. Submit the report.</li> </ol>
Alternate Flows	None
Post-conditions	The user has reported a Registered User account.

*Table 3.2.47 Narrative for Register (Verified Expert)*

Use case	Register
Summary	A new Verified Expert can register to the system
Actors	Verified Expert
Pre-conditions	None
Description / Main flow	<ol style="list-style-type: none"> <li>1. The user selects ‘Verified Expert’ on sign up page</li> <li>2. The user enters details including first name, last name, qualifications, email address and phone number.</li> <li>3. The user selects categories under area of expertise.</li> <li>4. Agree to the terms and conditions and refund policy</li> <li>5. The account will be created once an administrator verifies the account.</li> </ol>
Alternate Flows	None
Post-conditions	The registration request is sent to an administrator for approval.

*Table 3.2.48 Narrative for Publish Articles*

Use case	Publish articles
Summary	Verified Experts can write and add articles to the system
Actors	Verified Expert
Pre-conditions	The user has to be logged into the system as a verified expert
Description / Main flow	<ol style="list-style-type: none"> <li>1. Log in to the system</li> <li>2. Go to the “Articles” in the dashboard</li> <li>3. Press “Add” button</li> <li>4. Select the type of article</li> <li>5. Write the article</li> <li>6. Publish the article</li> </ol>
Alternate Flows	None
Post-conditions	A new article is added to the system and the user gets directed to the “Article” page

*Table 3.2.49 Narrative for Add to Database*

Use case	Add to database
Summary	Verified experts can add new fish types to the system along with all the details about that fish
Actors	Verified expert
Pre-conditions	The user must be logged into the system as a verified expert
Description / Main flow	<ol style="list-style-type: none"> <li>1. Log in to the system</li> <li>2. Go to the “Articles” in the dashboard</li> <li>3. Press “Add” button</li> <li>4. Select the type of the article as “Fish”</li> <li>5. Add data to the form</li> <li>6. Press “submit” button</li> <li>7. Add to the database</li> </ol>
Alternate Flows	None
Post-conditions	New fish type is added to the database and the user gets redirected the “Articles” page

*Table 3.2.50 Narrative for Update Articles*

Use case	Update articles
Summary	Verified Experts can edit and delete articles they added
Actors	Verified Expert
Pre-conditions	The user has to be logged in as a Verified Expert
Description / Main flow	If the user wants to edit an article, 1. Go to “Articles” in the dashboard 2. Select an article 3. Press “edit” button 4. Make necessary changes 5. Save
Alternate Flows	If the user wants to delete an article, 1. Select an article 2. Press “delete” button 3. Confirm
Post-conditions	Article updated or deleted, and the user gets redirected to the articles page.

*Table 3.2.51 Narrative for Reply to Questions*

Use case	Reply to questions
Summary	Verified Experts can reply to questions asked by the users.
Actors	Verified expert
Pre-conditions	The user must be logged in as a Verified Expert
Description / Main flow	1. Log in to the system 2. View the notifications 3. Select the question 4. Reply to the user’s question
Alternate Flows	1. Go to View the notifications 2. Select the question 3. Go to user’s profile 4. Report user

Post-conditions	<ol style="list-style-type: none"> <li>1. Reply sent to the user</li> <li>2. User account reported</li> </ol>
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*Table 3.2.52 Narrative for View Post Verification Requests*

Use case	View post verification requests
Summary	If a user tries to create a post using a name of a fish that is not recorded in the database, such posts should be verified by a verified expert before adding to the system. The verification requests will be sent to every verified expert in the system, and once one of them claims the post, it will be marked as ‘claimed’.
Actors	Verified expert
Pre-conditions	User must be logged into the system as a Verified Expert
Description / Main flow	<ol style="list-style-type: none"> <li>1. View the verification requests received</li> <li>2. Claim the post</li> <li>3. Review the post</li> <li>4. If the fish already exists in the database, update the post details accordingly and verify the post</li> <li>5. If it's a new fish type, add the fish type to the database and verify the post</li> <li>6. (Need admin verification?)</li> <li>7. Add post to the system</li> </ol>
Alternate Flows	None
Post-conditions	<ol style="list-style-type: none"> <li>1. Post added to the system</li> <li>2. New fish type added to the system</li> </ol>

*Table 3.2.53 Narrative for Administrator*

Use case	Verify store
Summary	If a user needs to register as a store, user needs to send a request and admin must give permission for the request
Actors	Admin
Pre-conditions	<ol style="list-style-type: none"> <li>1. Admin has to login to the system</li> <li>2. User needs to send a request for registration</li> </ol>

Description / Main flow	<ol style="list-style-type: none"> <li>1. View store request</li> <li>2. Check whether form details are correct and complete</li> <li>3. If user details are complete, then accept the request and send a notification through system and as well email</li> </ol>
Alternate Flows	<ol style="list-style-type: none"> <li>1. If user details are not complete, then cancel the request and send a notification through system and as well email</li> </ol>
Post-conditions	<ol style="list-style-type: none"> <li>1. Clear the notification about verify request</li> <li>2. Save relevant data in the database</li> </ol>

*Table 3.2.54 Narrative for Send Admin Request*

Use case	Send Admin Request
Summary	System administrators can add new administrator accounts
Actors	Admin
Pre-conditions	<ol style="list-style-type: none"> <li>1. Admin needs to login to the system</li> </ol>
Description / Main flow	<ol style="list-style-type: none"> <li>1. Click add admin button in the admin pages</li> <li>2. Enter relevant data</li> <li>3. Grant Privileges</li> <li>4. Submit the form</li> </ol>
Alternate Flows	None
Post-conditions	<ol style="list-style-type: none"> <li>1. Save the data in the database.</li> <li>2. Send a notification to the new admin about his privileges through email.</li> </ol>
Assumptions	Admin knows the person from outside the system and has the required persons email address

*Table 3.2.55 Narrative for Confirm Admin Request*

Use case	Confirm Admin Request
Summary	To have an administrator account, user has to register with the link provided by a current admin and get approved.
Actors	Admin
Pre-conditions	<ol style="list-style-type: none"> <li>1. Admin has to login to the system</li> </ol>

	2. A new Admin Registration request should be received.
Description / Main flow	<ol style="list-style-type: none"> <li>1. Go to confirm requests.</li> <li>2. Validate the information which is provided by the user.</li> <li>3. If user provided valid information admin will accept and new admin will be notified through email</li> </ol>
Alternate Flows	<ol style="list-style-type: none"> <li>1. If user provided invalid information admin will reject the request.</li> <li>2. User will be notified through email</li> </ol>
Post-conditions	New Administrator data will be saved in the database

*Table 3.2.56 Narrative for Verify Expert*

Use case	Verify Expert
Summary	To have verified expert privileges, admin must verify the user.
Actors	Admin
Pre-conditions	<ol style="list-style-type: none"> <li>1. Admin needs to login to the system</li> <li>2. Person who needs to be a verified expert must register.</li> </ol>
Description / Main flow	<ol style="list-style-type: none"> <li>1. View Verified Expert registration details</li> <li>2. If the qualifications are satisfactory, confirm request.</li> <li>3. Assign the new user to a category.</li> <li>4. Grant Privileges.</li> </ol>
Alternate Flows	None
Post-conditions	A new verified expert account is created, and the user will be notified via email.

*Table 3.2.57 Narrative for View User Related Issues*

Use case	View user related issues
Summary	Admin can view and handle reports on users for misbehavior and misconduct.
Actors	Admin
Pre-conditions	<ol style="list-style-type: none"> <li>1. Admin has to login to the system</li> <li>2. A reappeal report must be submitted by a user.</li> </ol>
Description / Main	<ol style="list-style-type: none"> <li>1. Go to View User Related Issues page.</li> </ol>

flow	<ol style="list-style-type: none"> <li>2. Select Issue.</li> <li>3. If the users reply is satisfactory, select 'Unblock'</li> <li>4. The user will be notified via email.</li> </ol>
Alternate Flows	<ol style="list-style-type: none"> <li>1. If a buyer has 5 reports, seller has 10 reports, store has 20 reports system will automatically block the user.</li> <li>2. The relevant user will be notified via email.</li> </ol>
Post-conditions	If action is taken against the report, relevant users will be notified.

*Table 3.2.58 Narrative for Remove User Account*

Use case	Remove user account
Summary	If a blocked user account has not been recovered for 3 months admin will remove the account
Actors	Admin
Pre-conditions	<ol style="list-style-type: none"> <li>1. Admin needs to login to the system</li> <li>2. User account needs to blocked for 1 year</li> </ol>
Description / Main flow	<ol style="list-style-type: none"> <li>1. Go to View User Related Issues page.</li> <li>2. Select Issue</li> <li>3. Select 'Delete Account'</li> <li>4. Delete the user account.</li> </ol>
Alternate Flows	None
Post-conditions	Notify the user about deletion

Use case	View contribution
Summary	Admin can view the contribution of Verified Expert for the system
Actors	Admin
Pre-conditions	Admin needs to login to the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. Go to the view contribution page</li> <li>2. View the contribution details</li> <li>3. The admin can sort the contribution according to highest percentage and according to category.</li> </ol>
Alternate Flows	None

Post-conditions	The administrator can view the contributions of verified experts to the system.
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*Table 3.2.59 Payment for Contribution*

Use case	Payment for Contribution
Summary	Admin can pay the Verified Expert for their contributions
Actors	Admin
Pre-conditions	Admin needs to go to view contribution page
Description / Main flow	<ol style="list-style-type: none"> <li>1. Select ‘Proceed to Payments’</li> <li>2. The system will autofill the payment details of the verified experts as provided when registering.</li> <li>3. The system will generate separate payments for each user individually.</li> <li>4. Admin selects ‘Confirm Payment’</li> </ol>
Alternate Flows	None
Post-conditions	Verified Users will be sent the invoice via email and onsite of their contribution payment.

*Table 3.2.60 Narrative for Generate Reports*

Use case	Generate Reports
Summary	Admin can get reports about what are the most selling items, revenue, most searched item, most selling items, most searched but not found items.
Actors	Admin
Pre-conditions	Admin needs to login to the system
Description / Main flow	<ol style="list-style-type: none"> <li>1. Go to generate report page.</li> <li>2. Select Relevant category.</li> <li>3. Select Generate Report.</li> </ol>
Alternate Flows	None
Post-conditions	A report will be generated for the administrator by the system.

*Table 3.2.61 Narrative for View Post Related Issues*

Use case	View post related issues
Summary	A post that has received 5 or more reports will be deactivated automatically and to reactivate the post the seller must file a relevant excuse and the admin evaluates the excuse.
Actors	Admin
Pre-conditions	<ol style="list-style-type: none"> <li>1. Admin has to login to the system</li> <li>2. An update on an existing issue should be received.</li> </ol>
Description / Main flow	<ol style="list-style-type: none"> <li>1. Go to view post related issues.</li> <li>2. The system will display new issues in order of time received.</li> <li>3. Select relevant issue.</li> <li>4. If the excuse is sufficient then admin will reactivate the post and notify it to the seller via email and onsite.</li> </ol>
Alternate Flows	<ol style="list-style-type: none"> <li>5. If the excuse is insufficient, then admin will delete the post and notify the seller via email and onsite.</li> </ol>
Post-conditions	A post can be reactivated or deleted by the admin.

### 3.3 Functional requirements

The functional requirements of the system are organized according to the user roles identified in the system.

#### All User Requirements

##### 1. Sign up

###### 1.1 Sign up as a registered user

A new user shall be able to sign up to the system by providing their name, email, contact number and password.

The user shall be given a clickwrap agreement when registering to the system.

###### 1.2 Sign up as a business

I. A store shall be able to register to the system by providing a valid registration number, telephone number, store address, store email. Account will be created after it is verified by an administrator.

II. A store shall select the delivery options it will provide a buyer with. The options are,

- On site pick-up.
- The stores own delivery service.

Stores will be required to manually upload the shipping pricing chart when registering.

- Request to add pricing

The system will update the pricing on items according to the provided pricing table after verification.

- Third party delivery service.

Stores will be required to sign up for a third-party delivery service and provide the required packaging standards.

##### III. Select and pay for subscription

A store shall subscribe to the system on an annual subscription to access all services offered to a store account. The subscription can be terminated only by providing a 14-day notice period and the system will prompt the store for a cancellation reason.

2. Login

All system users shall login using the same login portal. Different users will have different levels of access.

3. Logout

4. View Account settings

A user shall be able to change account settings which include name, email and contact number.

5. Notification Settings

A user shall have the ability to turn off notifications for certain features depending on the user access level.

6. Reset Password

A user can reset the password after undergoing email authentication.

## Registered User Requirements

1. Browse blog section

The system shall show the latest and most rated articles in the blog interface. Care instructions for fish and blog posts will be under two separate categories.

1.1 Rate article

The system shall allow users registered to the system rate an article with an upvote or a downvote under a relevant article.

2. Post questions

The user can post a question to be answered by a verified expert in the questions section under the user's dashboard. The user can select a verified expert and then proceed to send their question.

When a user receives a reply to the questions posted the system will notify the user through the system and via email.

## Buyer

1. Browse product listings

1.1 Browse by category

- i. The system shall allow users to browse posts by categories (insert categories).  
The system will display recommendations based on the location.

- ii. If the user has purchased a fish through the system beforehand the system will display compatible fish posts.

### 1.2 Browse by keyword

The system shall allow users to browse all products using keywords and filters available including location, price range, shipping availability.

### 1.3 Personalized fish match

The system shall give a user a personalized match depending on the tags selected by the user which will be matched with the tags in the database for the relevant fish options.

### 1.4 Guided tank building

- i. Users can select an available fish and the system shall generate a list of all items that are needed for the type of fish with the approximate cost. Users can view the cheapest item combination or view all items that can be used.
- ii. The system shall generate a checklist in the form of a pdf if the user wishes to obtain only the specifications for the items needed.

## 2. View item postings

### 2.1 Rate and Review Item

A user can rate an item on a scale of one to five and leave a review only if the user has ordered the item. The system will display an average rating of all the user ratings on the post and the comments will be presented newest to oldest.

### 2.2 Post questions on items

For items that have more than one quantity listed the system shall allow users to leave questions on the item post. The user will be notified of the response via the website and email.

## 3. Wishlist

Users can add items they want to a wishlist that will be available for the user to view on each login. Items in the wishlist can be removed or added to cart.

### 3.1 Restock update

If an item that is out of stock that is in the wishlist gets restocked the system shall notify the user.

## 4. Cart

- i. Users can add and remove items from the cart.
- ii. The subtotal of all items in the cart shall be displayed by the system whenever the user views the cart.

5. Purchase items
  - i. To purchase an item the user shall be redirected to their cart.
  - ii. The user shall enter all relevant discount codes, if any, before checking out.
  - iii. The user shall enter the relevant payment details requested by the system. The user will be needed to verify the payment for it to be processed.
  - iv. The user will be notified via email of the payment details and the order confirmation.
  - v. If it is an item that delivery is provided for, the user shall be notified when the order has been shipped.

## 6. View transactions

### 6.1 Transaction history

The system shall display all transactions the user has made through the system.

### 6.2 Request Refunds

The user can request a refund if the item if it is within the terms stated by the seller in their refunds offered section.

## 7. Rate and Review Stores

A user can rate an item on a scale of one to five and leave a review on a store page. The system will display an average rating of all the user ratings and the reviews will be presented newest to oldest.

### Seller,

## 1. Add item posts

### 1.1 Fish

- 1.1.1 Selling a fish
  - ii. The system shall allow users to create a post to sell a fish.
  - iii. The system shall ask for the user agreement to the sales terms and agreements and refund policy for each post added.
  - iv. The user shall only need to enter the name of the fish, image, price and the delivery option when creating the post. The other care details of the fish will be auto filled by the system.
  - v. The user shall be required to pay a price that will be calculated by the system as duration of post \* daily rate \* commission. The commission is only applicable to items valued at Rs. 10 000 and above and is a 5% commission.

### 1.1.2 Adoption

The user shall fill all details as a selling post including but will not be charged for the creation of this post. An adoption post has a lifespan of two weeks and users in the selected area of drop off will be notified via the system.

## 1.2 Item

### 2. View active posts

A user shall be able to view all active posts from their profile page.

## Sellers and Stores,

### 1. Handle orders

#### 1.1 Pending order requests

The seller shall be able to see all orders placed and confirm the orders. Once the order has been shipped, they shall update the delivery status.

#### 1.2 Orders in progress

The seller shall be able to view all orders in progress and to update the delivery status as delivered or cancelled.

#### 1.3 Order history

The seller shall be able to see all orders they have undertaken through the system.

### 2. Handle refund requests

#### 2.1 Pay refund

If the store accepts to send a refund in the time stated in the product description they may do so through the payment gateway.

#### 2.2 Reject refund request

If the refund is unreasonable and outside of the sellers stated terms, they may reject the refund and the system will prompt them to provide a reason for rejecting the refund. This will be forwarded to the buyer.

## Store,

### 1. Customize Storefront

The store shall be able to change the display images of the storefront.

#### 1.1 Inventory display

The store shall be able to display their products under new arrivals, limited items and best seller items.

2. Manage inventory
  - i. The system shall allow stores to view, add, update, and delete the stock numbers in their inventory.
  - ii. The store shall be able to set system notifications for when the stock of an item falls below a select number.
  - iii. The stock will be decremented automatically in the event of a sale by the system.

3. Provide multiple shipping methods

- i. On site pickup

This method indicates that the store allows customers to visit the store premises and obtain the item or fish after making the payment through the system.

- ii. Third party shipping service

The store will need to follow the packing regulations required and update the delivery status of orders with the status as well as the tracking ID provided by the third-party service.

- iii. Store delivery service

If the store has its own delivery service, the system shall allow them to add the relevant pricing chart and add the price to an item. The store shall select the maximum distance from store location that delivery will be handled from.

4. Promotions

- 4.1 Feature items

The stores can promote their stores by boosting their items as Featured Products that will be displayed on the homepage of all users.

The store will be charged based on the duration and a fixed promotion rate.

- 4.2 Bundle offers

The stores can offer several items together and create a bundled offer. The price reduction can be arranged by the store owners.

- 4.3 Offer discounts

The system shall allow stores to create a discount code that can be used by buyers. The store shall be able to choose the eligible items and duration of the discount.

5. Dashboard Tools

- 5.1 Report Generation

The store shall be able to generate reports under sales for items, the store as a whole and to view their sales growth chart.

## 5.2 Manage Review

The system shall allow stores to report reviews. The system will prompt the user to enter a reason for reporting and the report will be sent to the administrator.

### 6. Reply to item questions

The system shall allow stores to reply to questions posted on item posts.

#### **Administrator,**

##### 1. Add administrator accounts

The administrator can add new administrator accounts to the system.

##### 2. Verify users

The system shall give the list of users requesting to be verified users to the admin sorted by years of experience and profession. The administrator shall be allowed to verify these users and give them the required privileges.

##### 3. Handle user related issues

User reports submitted will be reviewed by the administrator

###### 3.1 Remove user accounts

The system shall allow the administrator to remove a user from the system. The user being removed will be notified via email.

##### 4. Handle post removal issues

Posts that are requested to be removed by verified users will be removed by the administrator.

##### 5. Issue notifications for maintenance

The administrator can issue notifications for all users in the system 24 hours before maintenance.

##### 6. Report generation

##### 7. View Post verifications

All verifications on posts made by verified experts can be viewed.

##### 8. Approve payment for verified experts

The system shall calculate the amount needed to be paid to a verified expert based on the number of questions answered and articles posted, and the administrator can approve the payment to be sent to the experts.

#### **Verified Expert,**

1. Add articles to blog

The verified users can write and submit informative articles to be displayed in the system.

2. Handle blog content

- 2.1 Report articles

The system shall allow experts to report articles in the blog along with a reason to be reported.

- 2.2 Update, remove articles

Experts shall be allowed to update articles that they have submitted. Changes made will be displayed alongside the change in the article.

Experts shall be allowed to delete articles they have submitted 24 hours after posting the article.

3. Post replies to questions

Questions under the expert's area of expertise can be answered by the experts.

4. Handle post issues

- 4.1 Verify Post

Posts that contain a fish or plant not in the database shall be forwarded to the verified expert. The expert may enter the necessary details and forward it to the administrator to be verified.

5. Report users

### 3.4 Quality Attribute Requirements

#### Usability

- The system will maintain a simple user interface that will ensure that users unfamiliar with the system can easily familiarize themselves with it. The interface will also be responsive such that it will not affect a user's experience depending on the device they access the browser from.
- Icons, headings and text fields used will be modern and meaningful that will guide a user to use the webpage intuitively. Buttons will be clearly labelled to avoid confusions.
- Both Sinhala and English will be available for the user when searching through the website.

#### Availability

The website will be available for users 24 hours a day 365 days a year. To make sure the platform achieves this,

- We will maintain a good back-up system so that in the case of faults within the database no loss of data will occur.
- In the case of an update, users will be notified beforehand.

#### Security

The website will regularly deal with transactions and will store certain personal data of users. To ensure that the system remains safe and secure for the users,

- Registered users, moderators and the admin will have different access levels and privileges.
- Authentication will be carried out for every login.
- All passwords will be encrypted using a suitable method (MD5) to protect users' data.
- A secure and reliable payment gateway method will be used for money transactions.

#### Performance

- The system will use simple and effective algorithms for its functionalities.
- A good hosting service will be used to ensure that our website will always run smoothly.

#### Portability

- Standard programming languages such as HTML, CSS, JavaScript and PHP that can run on all browsers will be used in implementation.
- The system will be compatible with all hardware used to access the web application.

## Maintainability

To ensure that the code used for the system remains readable, understandable and modifiable over time for uses such as maintenances, we will commit to maintaining,

- A good documentation throughout the software development life cycle
- Use clear comments that follow a singular format across all code files.
- Coding standards will be utilized.
- The system will be designed as modules.

## 4. Proposed Systems Architecture

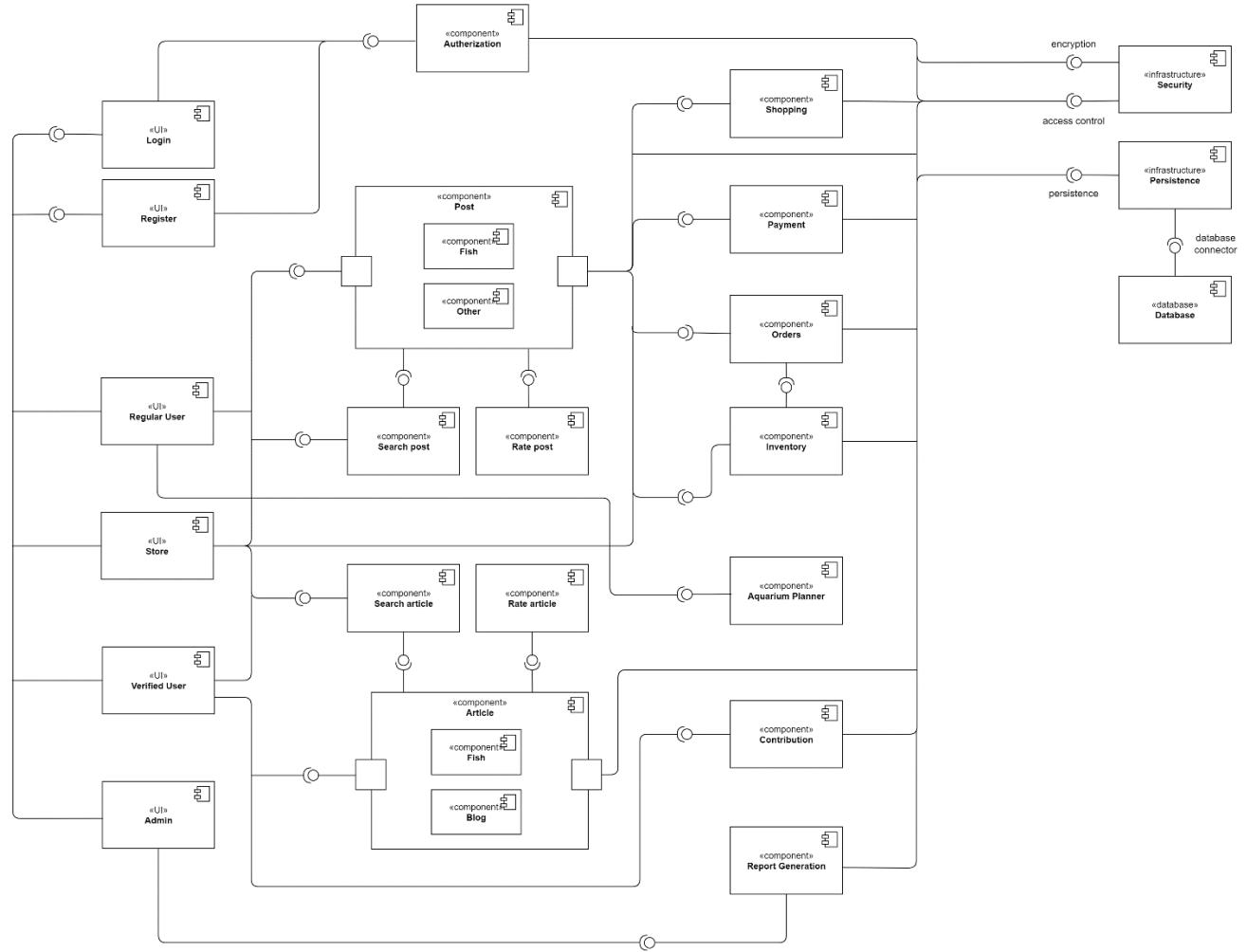


Figure 3.4.1 Component Diagram

## Components

1. Security  
This component will provide security elements such as encryption required for the authorization component and access control for the database component. Password encrypting will be done for every user and all users will only be allowed access to the information relevant to them.
2. Persistence  
The persistence component ensures that the data from the database survives after the process with which it was created has ended.
3. Database  
The database component is responsible for storing all the data in the system and all users have access to this component. Access to this component will be controlled and maintained by security component.
4. Authorization  
This authorization component ensures that each and every login and sign up will provide users access to only the information that is relevant to them.
5. Post  
The Post handles all functionalities with advertisements posted and contains two subcomponents' fish posts and other posts.
6. Search Post  
Search Post component provides search, filter and sort for all posts and can be accessed by any user.
7. Rate Post  
The rate post component allows users to provide a rating for a post.
8. Article  
The article component handles all functionalities regarding the blog and articles posted within the blog. It can be accessed by verified users to add, delete and edit blog related content.
9. Search Article  
Search Article component provides search, filter and sort for all articles and can be accessed by any user.
10. Rate Article  
The rate post component allows users to provide a rating for an article.

**11. Shopping**

This component is responsible for the cart functionalities and calculating the total and transferring unavailable items to the wishlist.

**12. Payment**

All transactions that occur within the system will be managed by the Payment component. Payments regarding adding posts, purchasing items and payments for experts will be done through a payment gateway. This component will be responsible for payment type handling, payment error notifications and sending confirmation emails.

**13. Orders**

This component handles allows users to view and update their current orders and to view their past orders.

**14. Inventory**

Users with access to the inventory component will have access to adding, deleting, and updating items listed in their inventory. This component will also provide users the facility to

**15. Aquarium Planner**

This component allows users to access the Build A Tank feature of the website.

**16. Contribution**

This component provides the admin with the facilities to view the contribution made by verified experts monthly. This component is responsible for generating the payment amounts based on contribution.

**17. Report Generation**

Report generation component is responsible for generating reports for admin and store users based on their relevant level of access.

## 5. System Design

### 5.1 Class Diagram

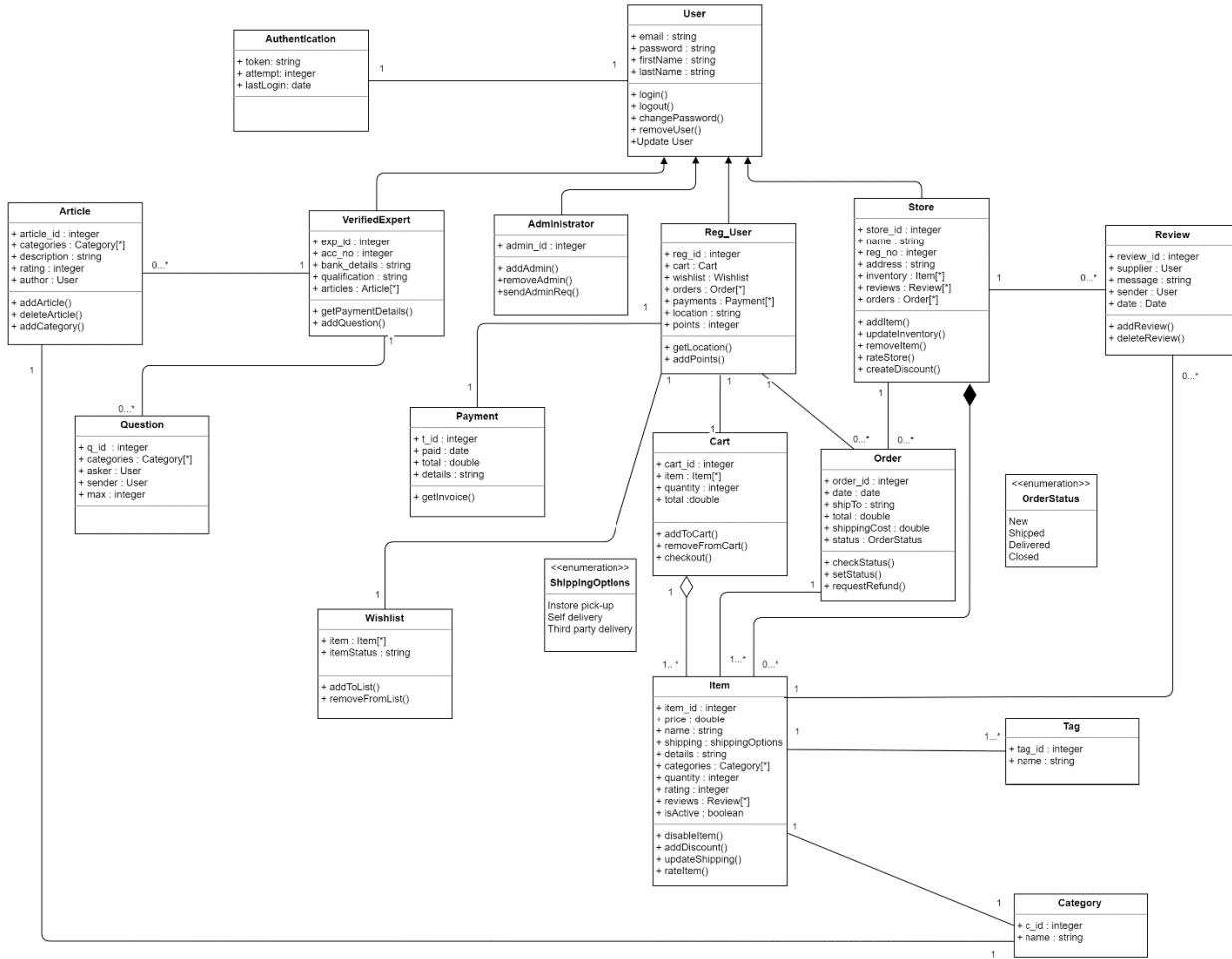


Figure 5.1.5.1.1 Class Diagram

## 5.2 ER Diagram

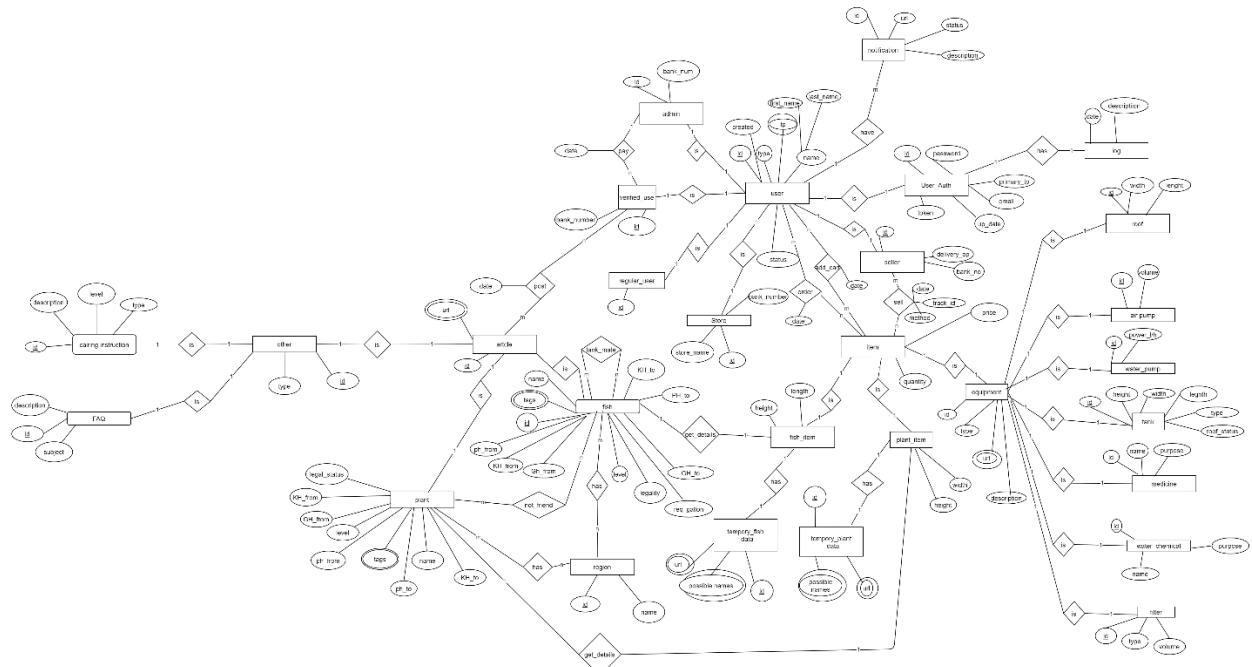


Figure 5.2.1 ER Diagram

(<https://drive.google.com/file/d/1Lp84mVPfz3SJwleiW7N4UrwOVi8uCpKJ/view?usp=sharing>)

### 5.3 Sequence Diagrams

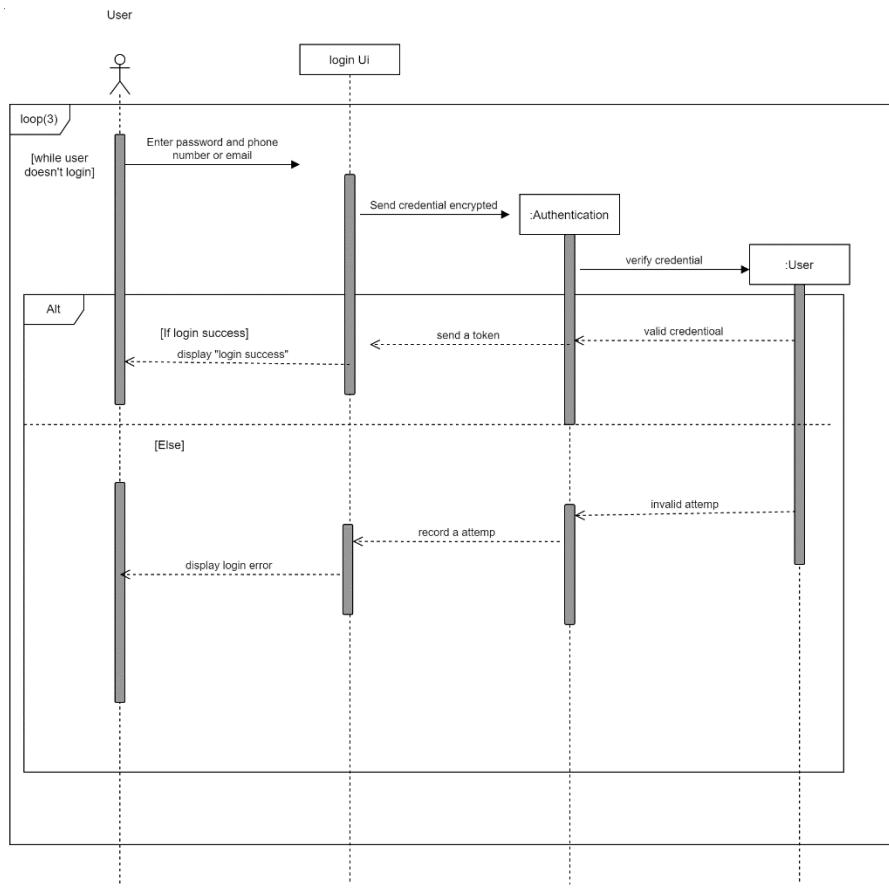


Figure 5.3.1 Login

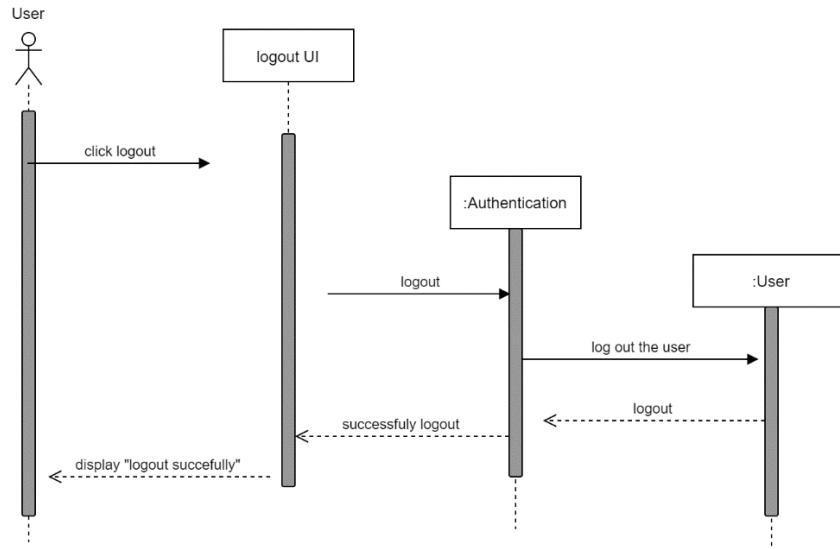


Figure 5.3.2 Logout

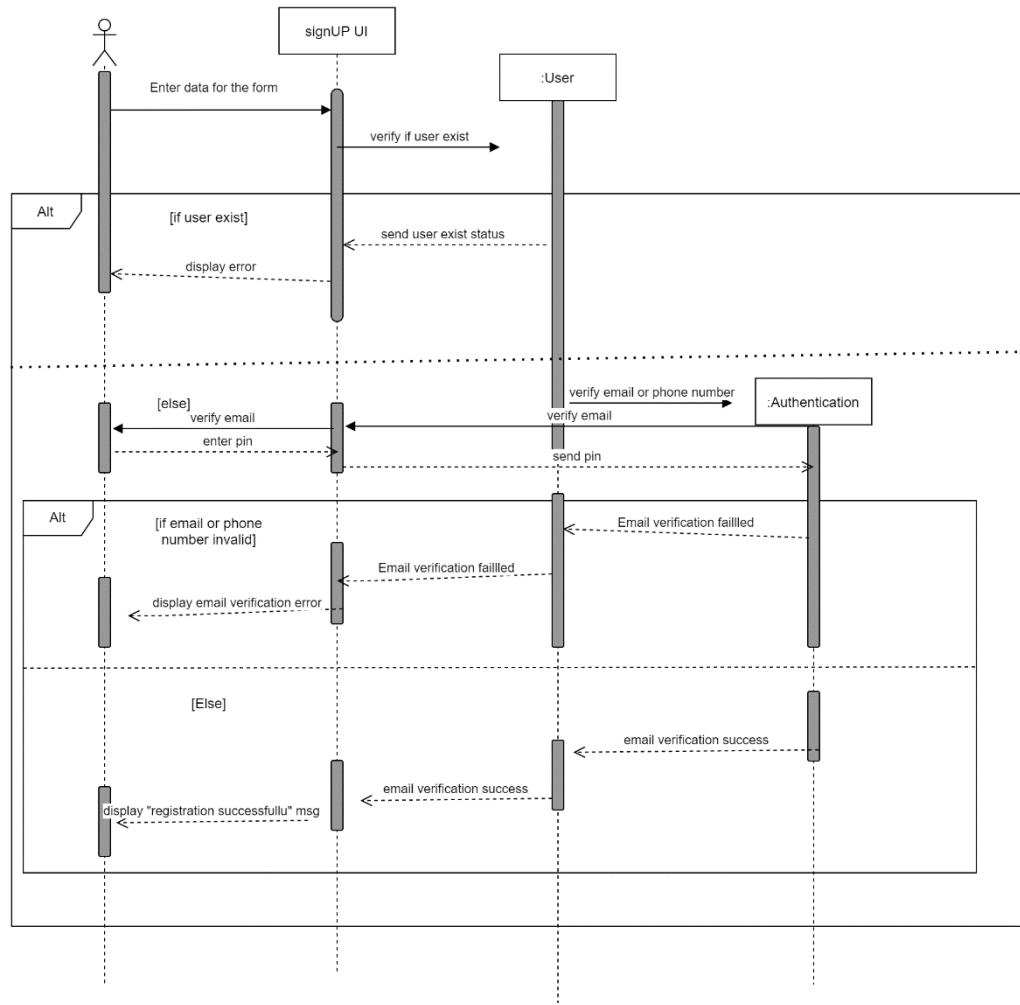


Figure 5.3.3 Sign up

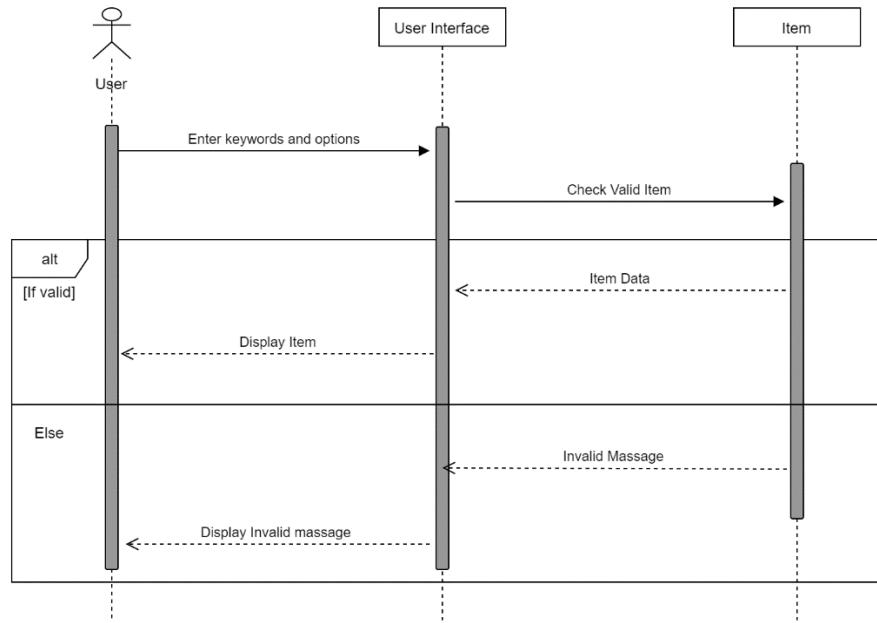


Figure 5.3.4 View Item

buyer/store

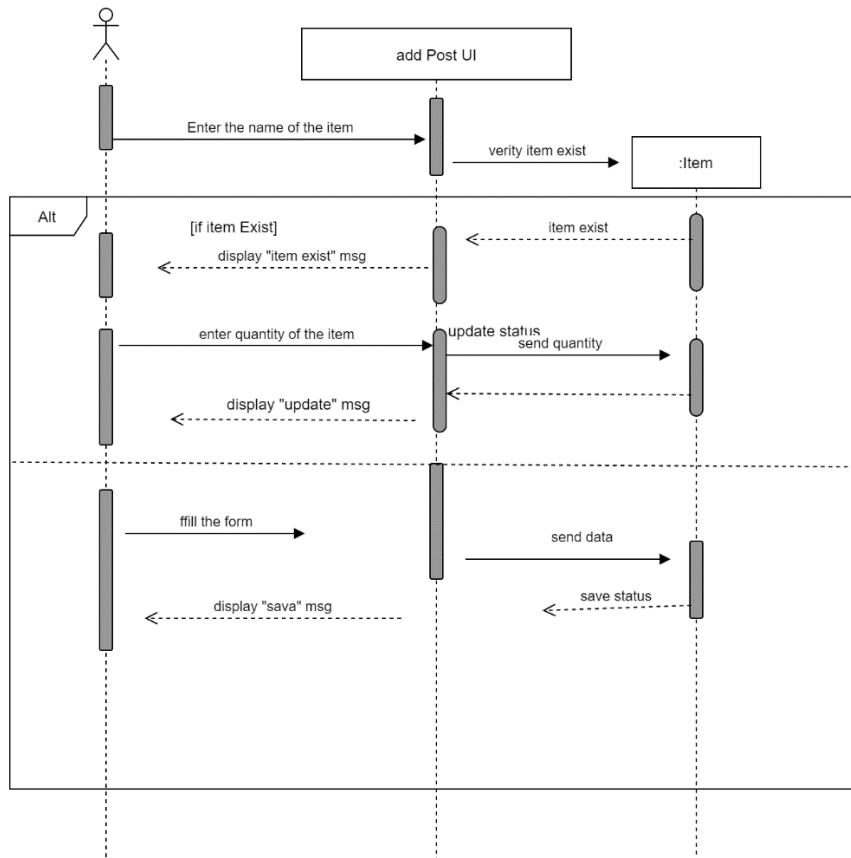


Figure 5.3.5 Add post

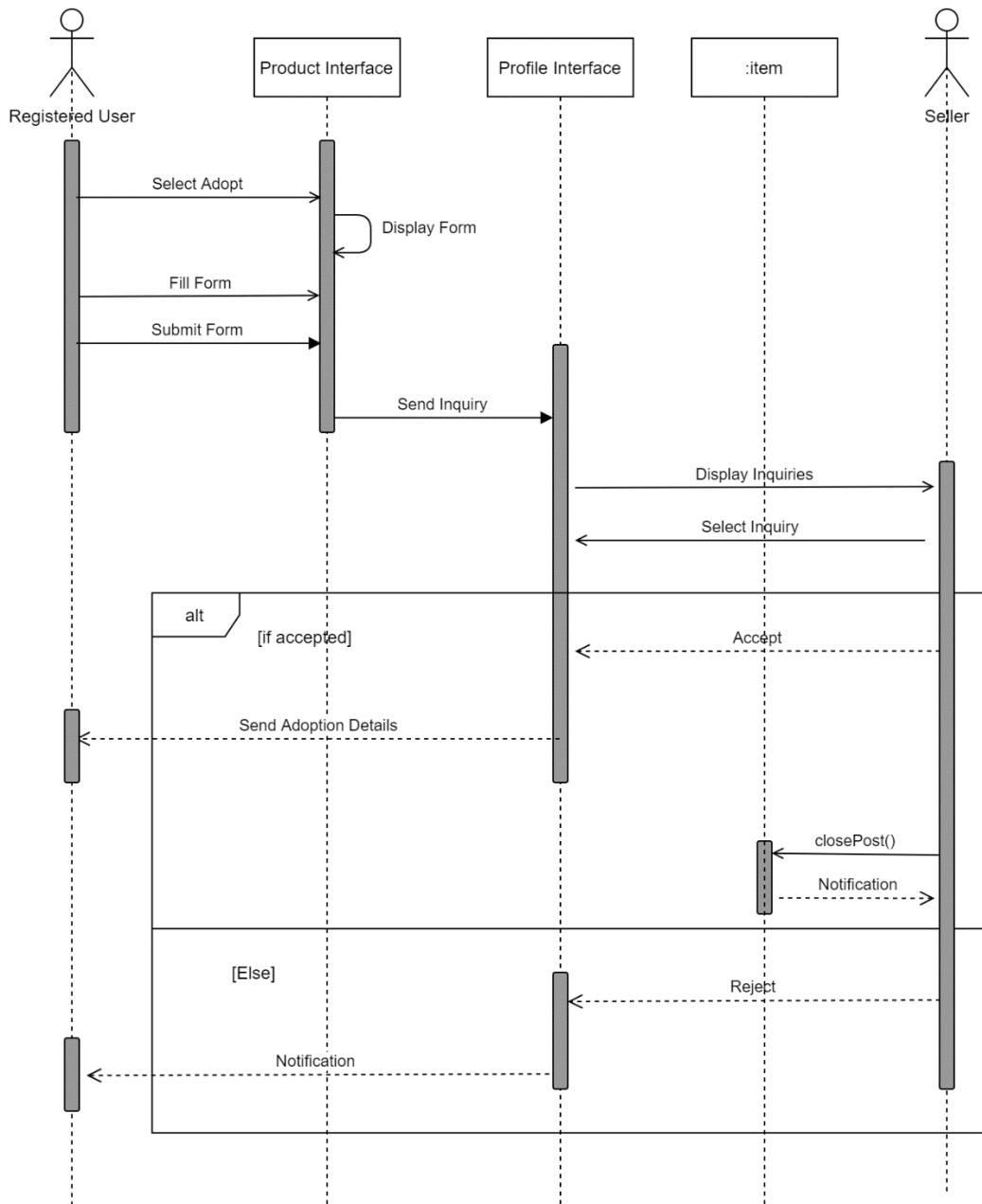


Figure 5.3.6 Adopt

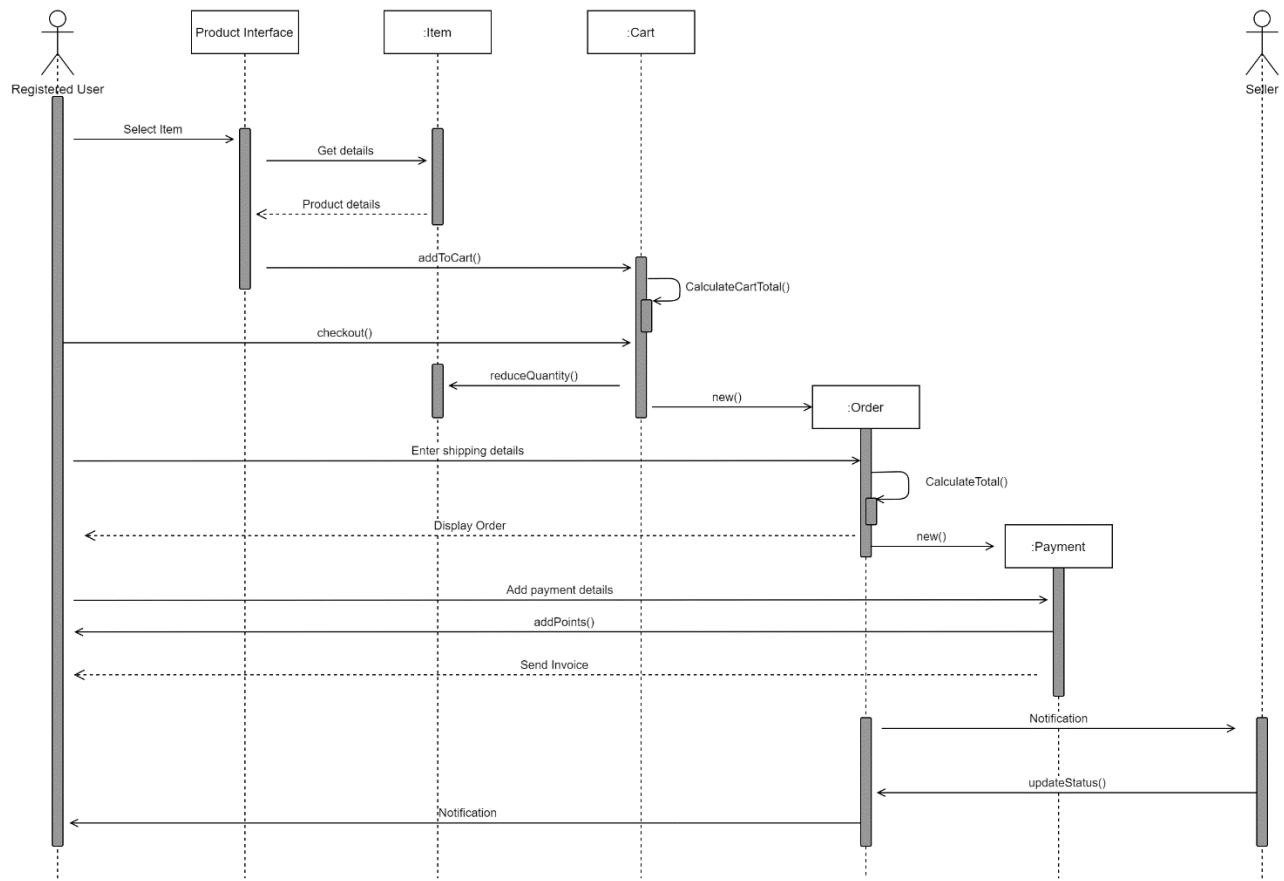


Figure 5.3.7 Buy Item

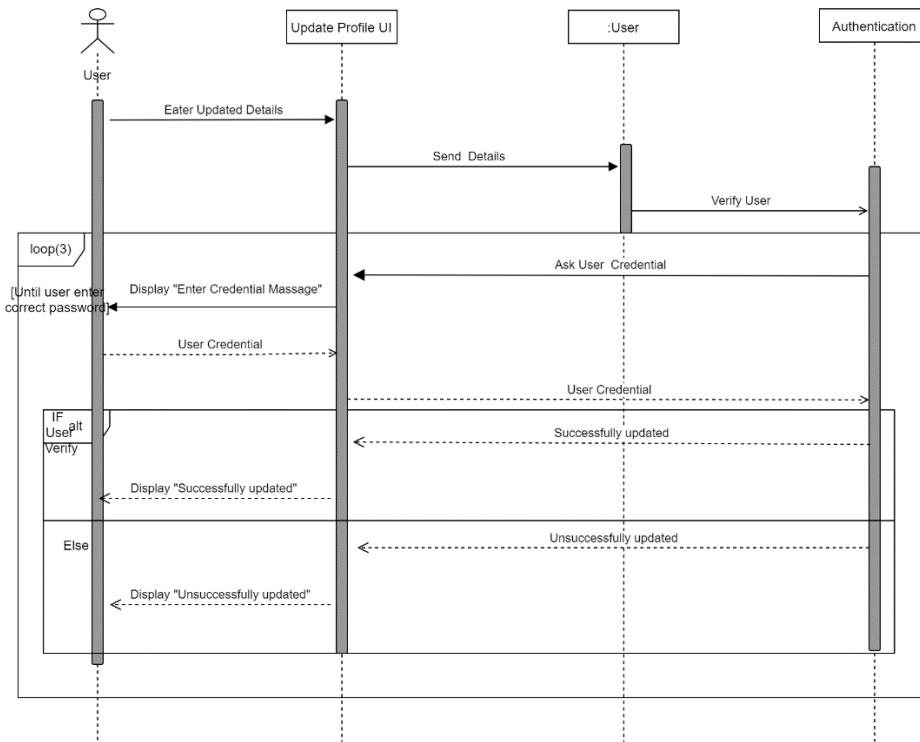


Figure 5.3.8 Update profile

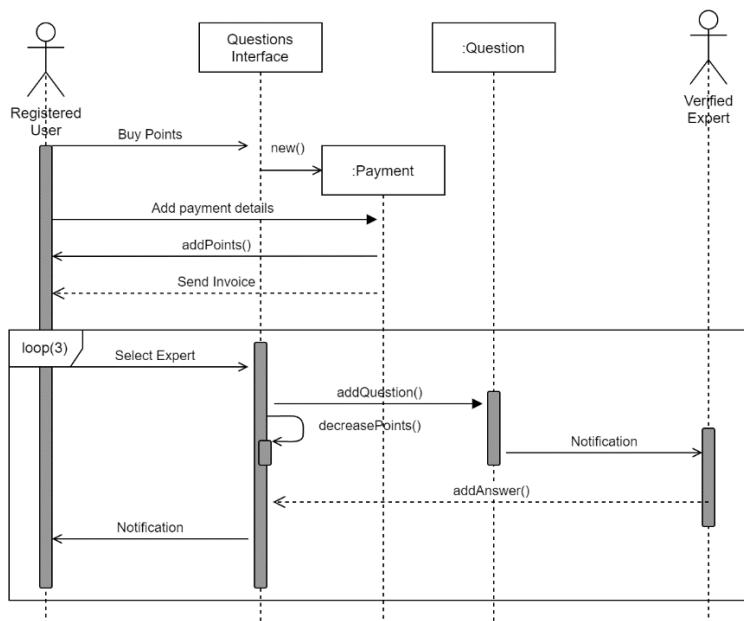


Figure 5.3.9 Post questions

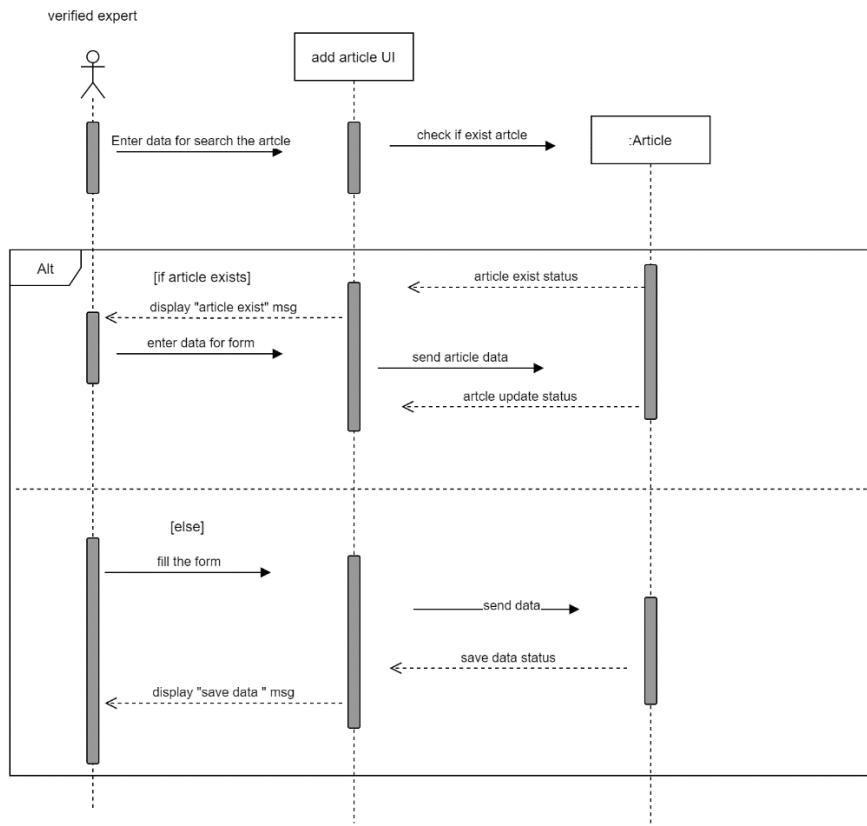


Figure 5.3.10 Add article

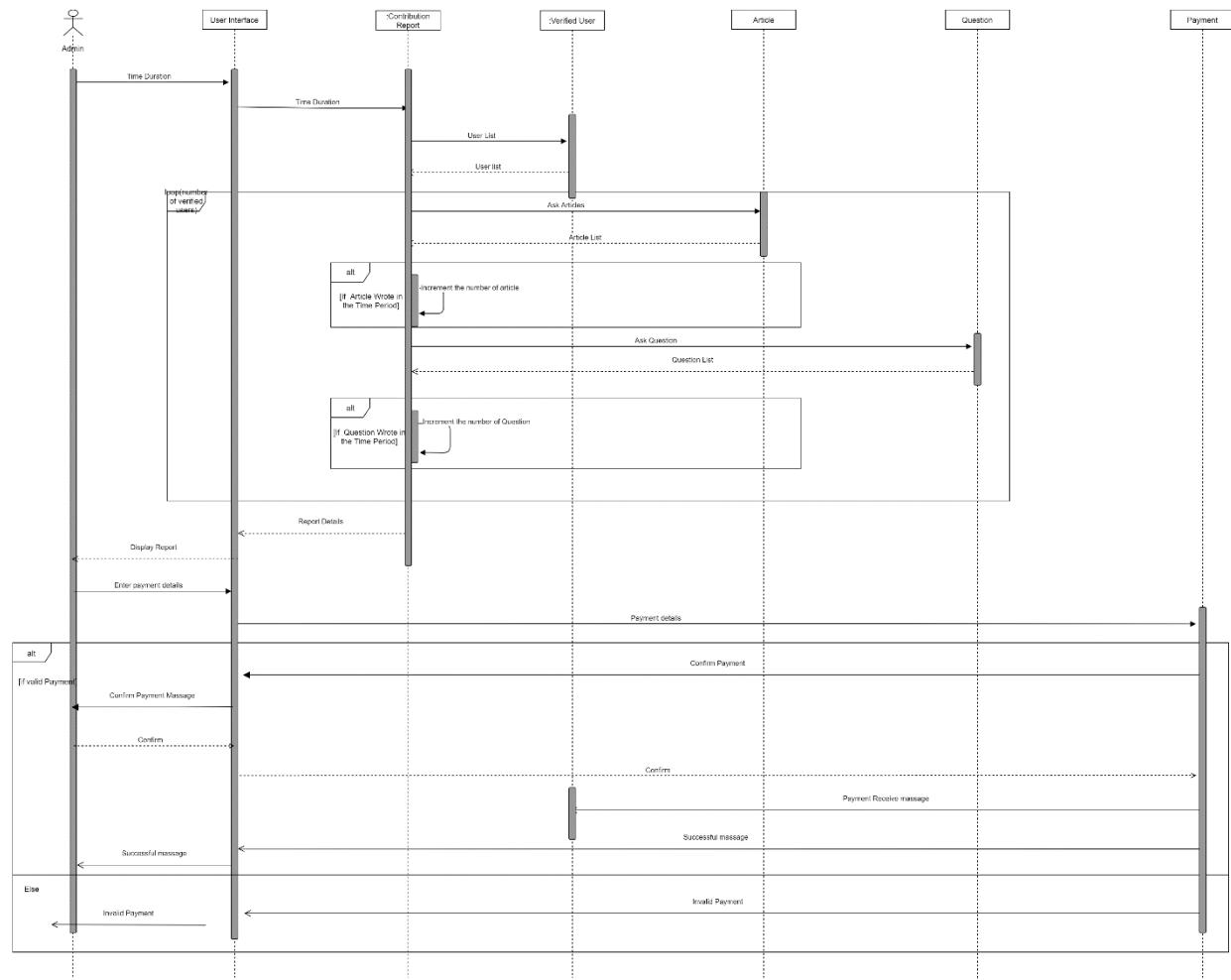


Figure 5.3.11 Contribution

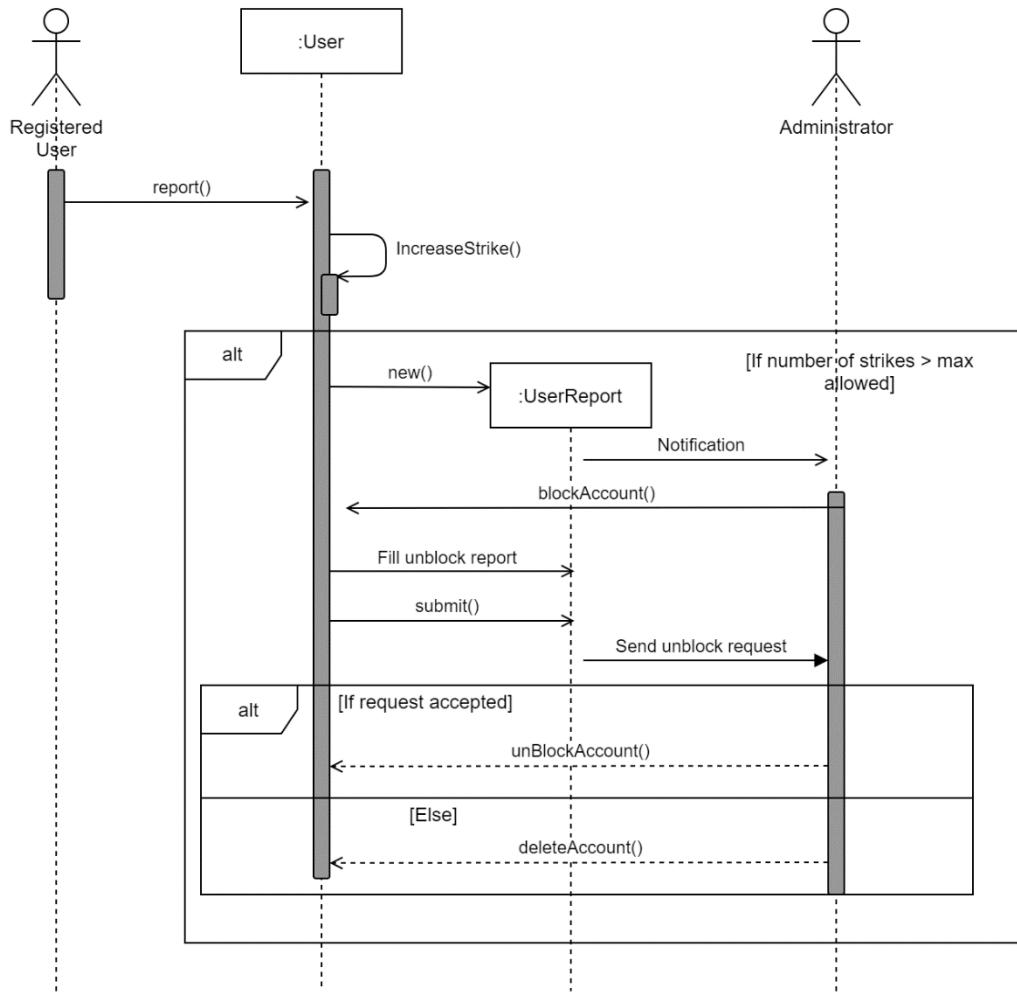


Figure 5.3.12 Handle Issues

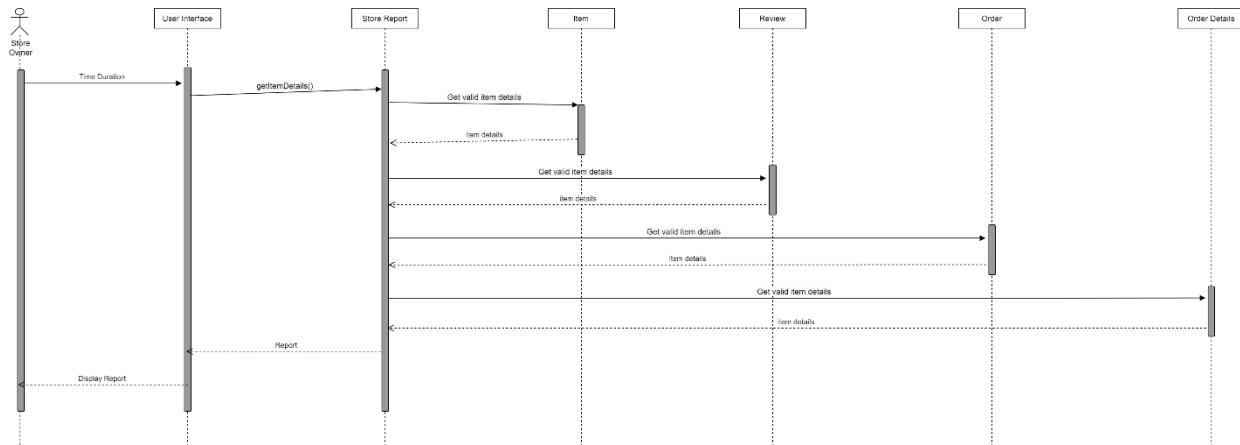


Figure 5.3.13 Report Generation (Store)

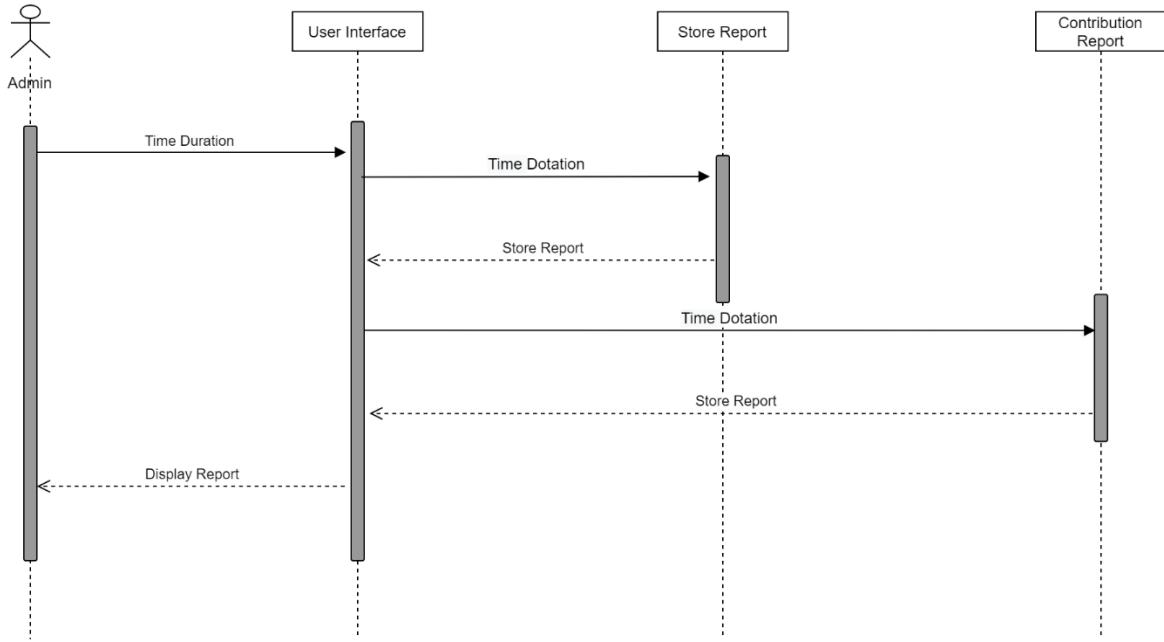


Figure 5.3.13 Report Generation (Admin)

## 5.4 Activity Diagrams

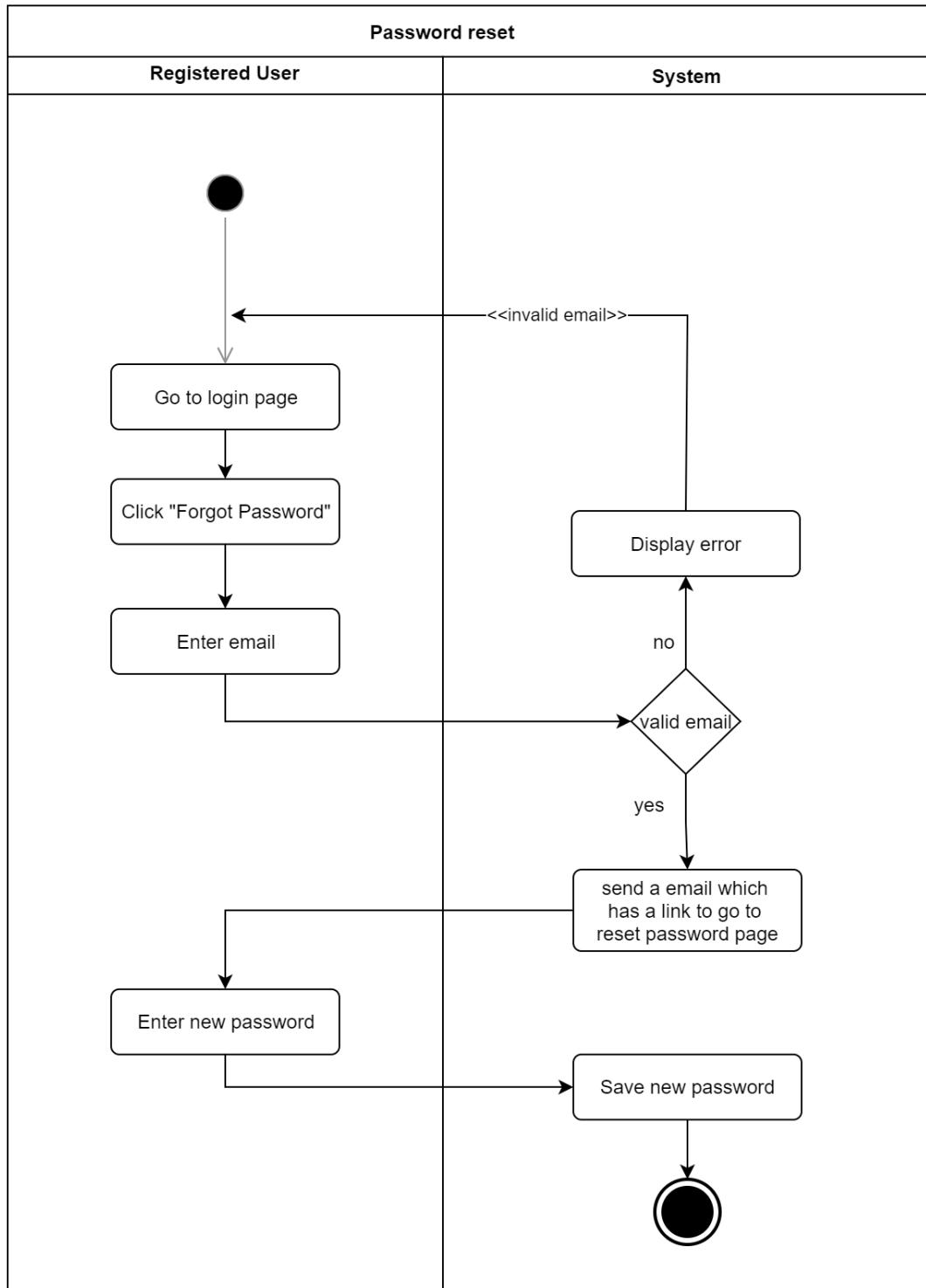


Figure 5.4.1 Password Reset

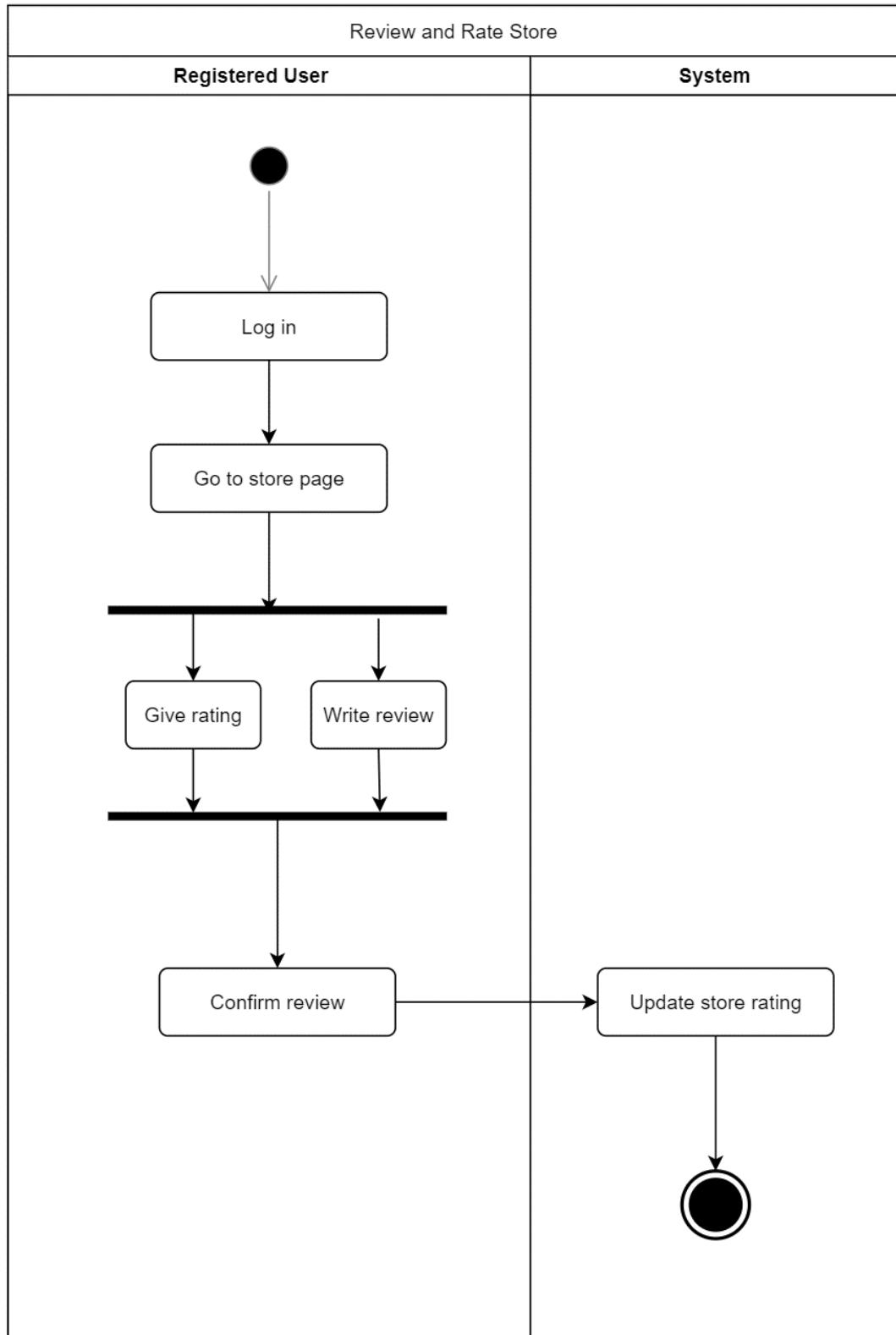


Figure 5.4.2 Review and Rate Store

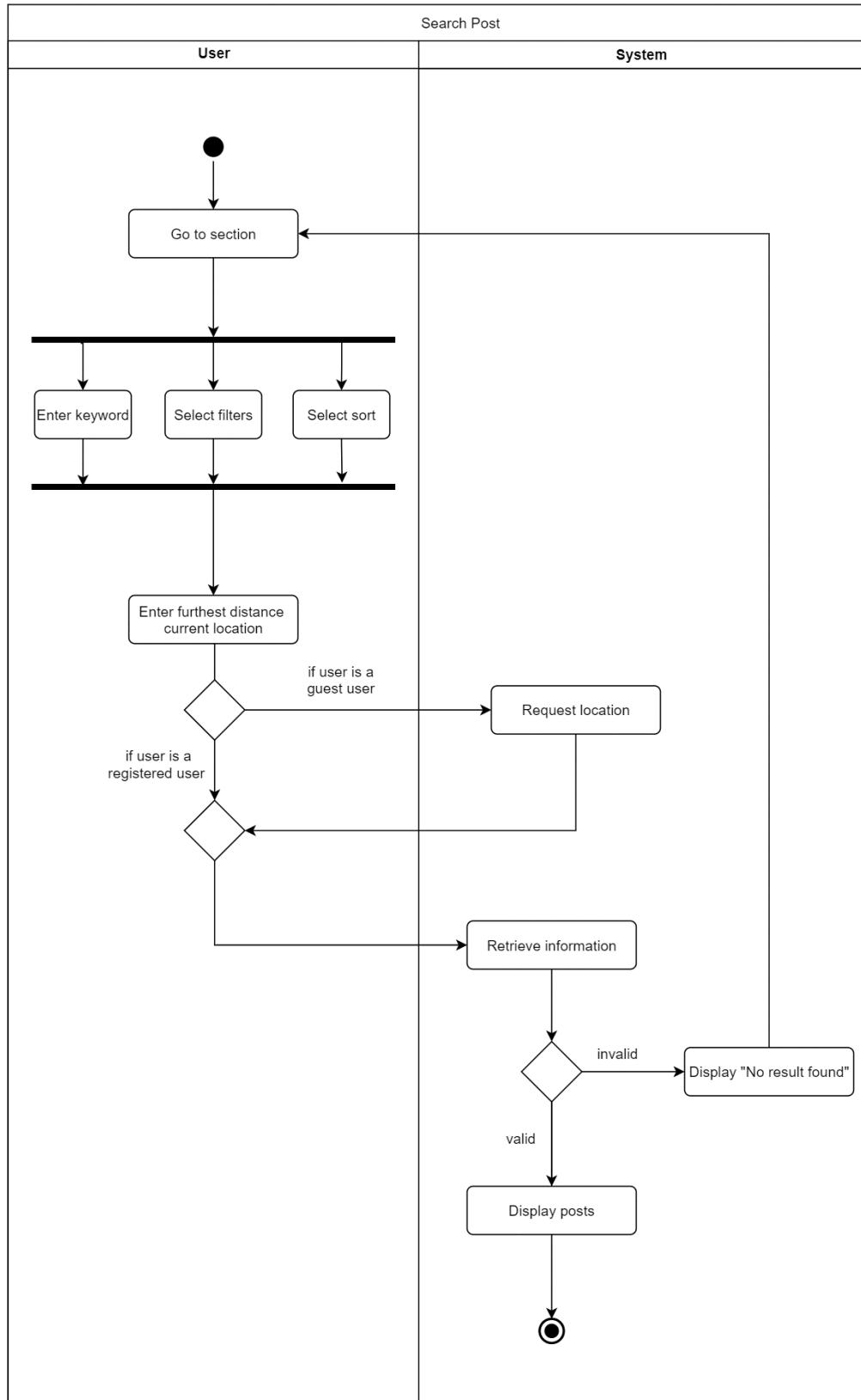


Figure 5.4.3 Search Post

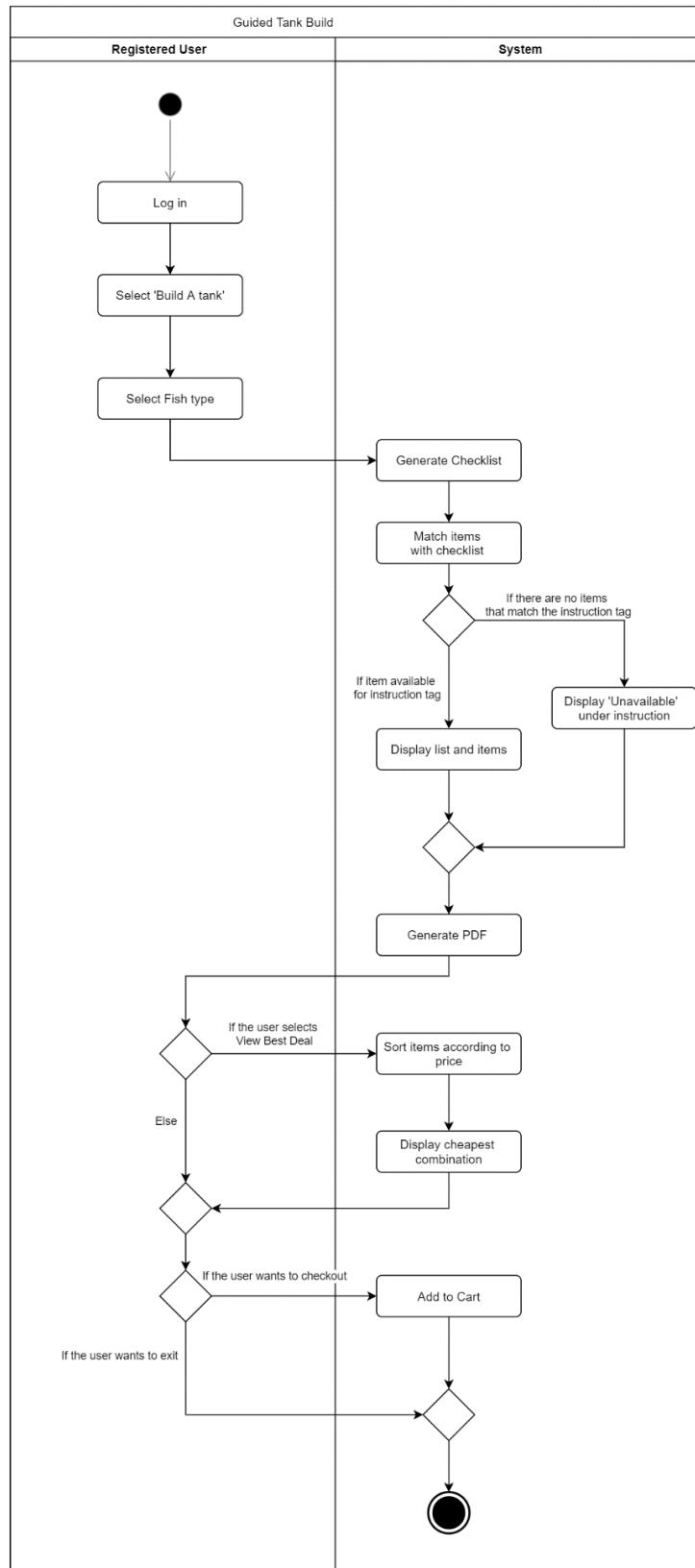


Figure 5.4.4 Guided Tank Build

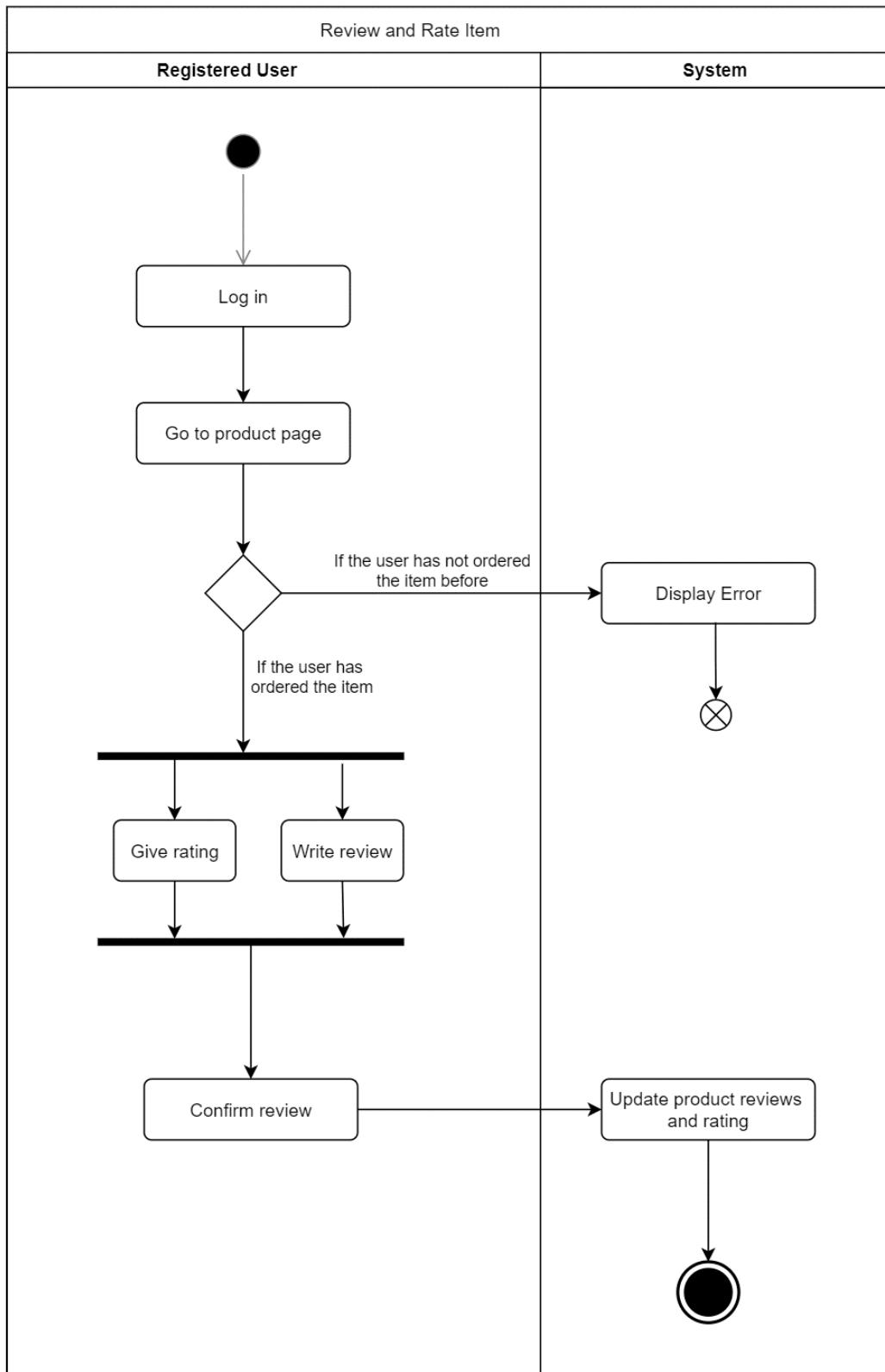


Figure 5.4.5 Review and Rate Item

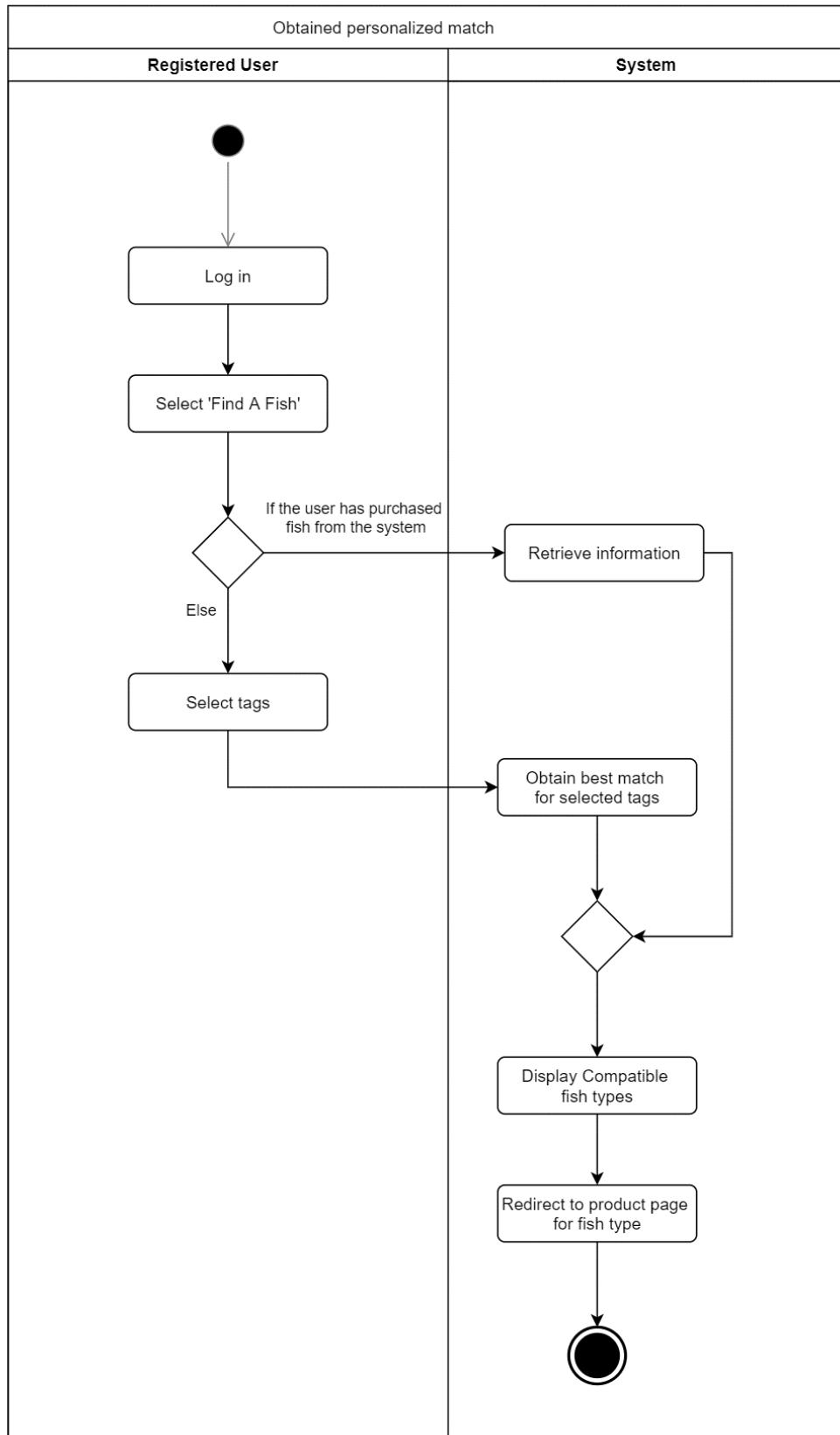


Figure 5.4.6 Obtain Personalized Match

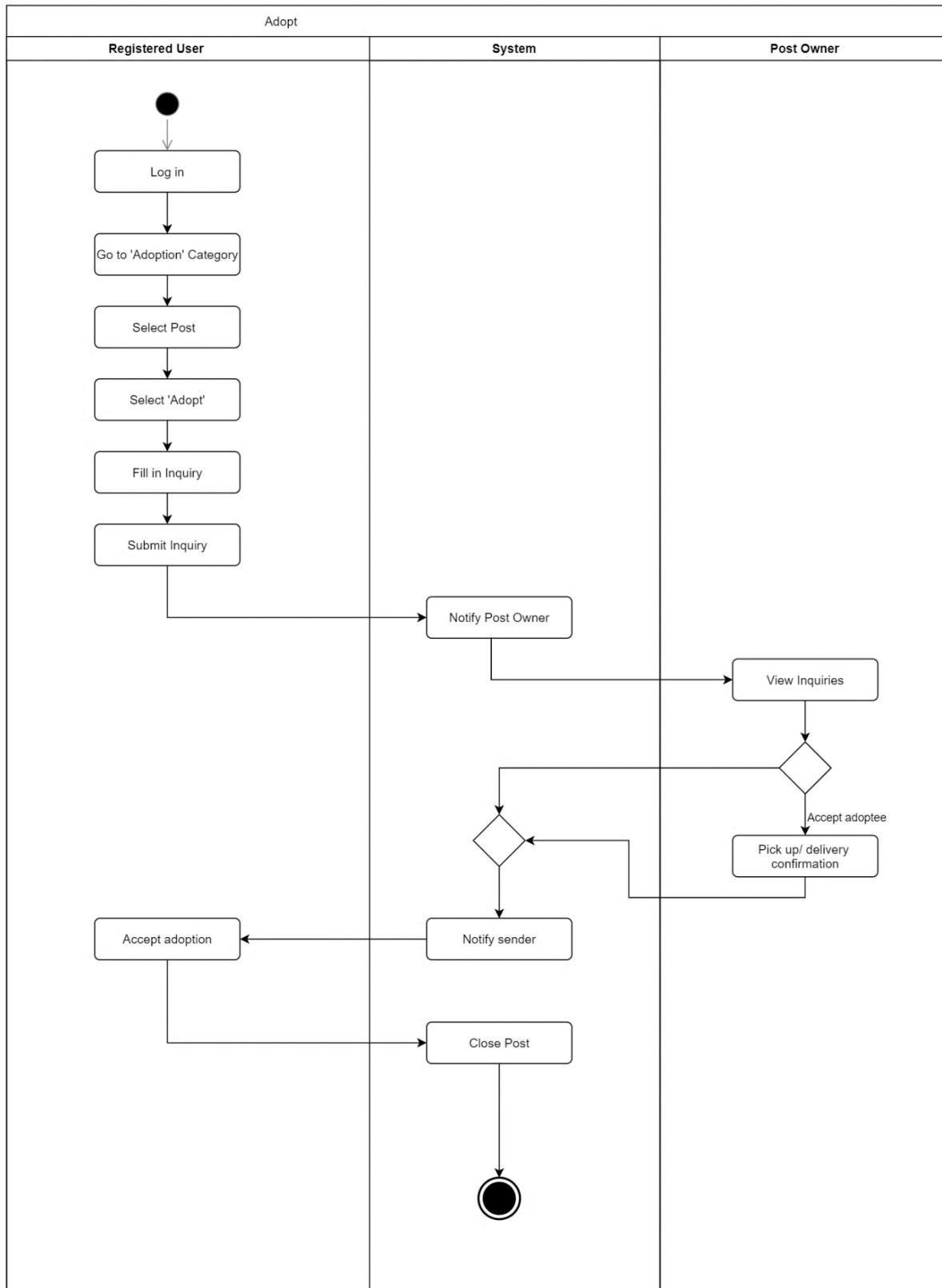


Figure 5.4.7 Adopt

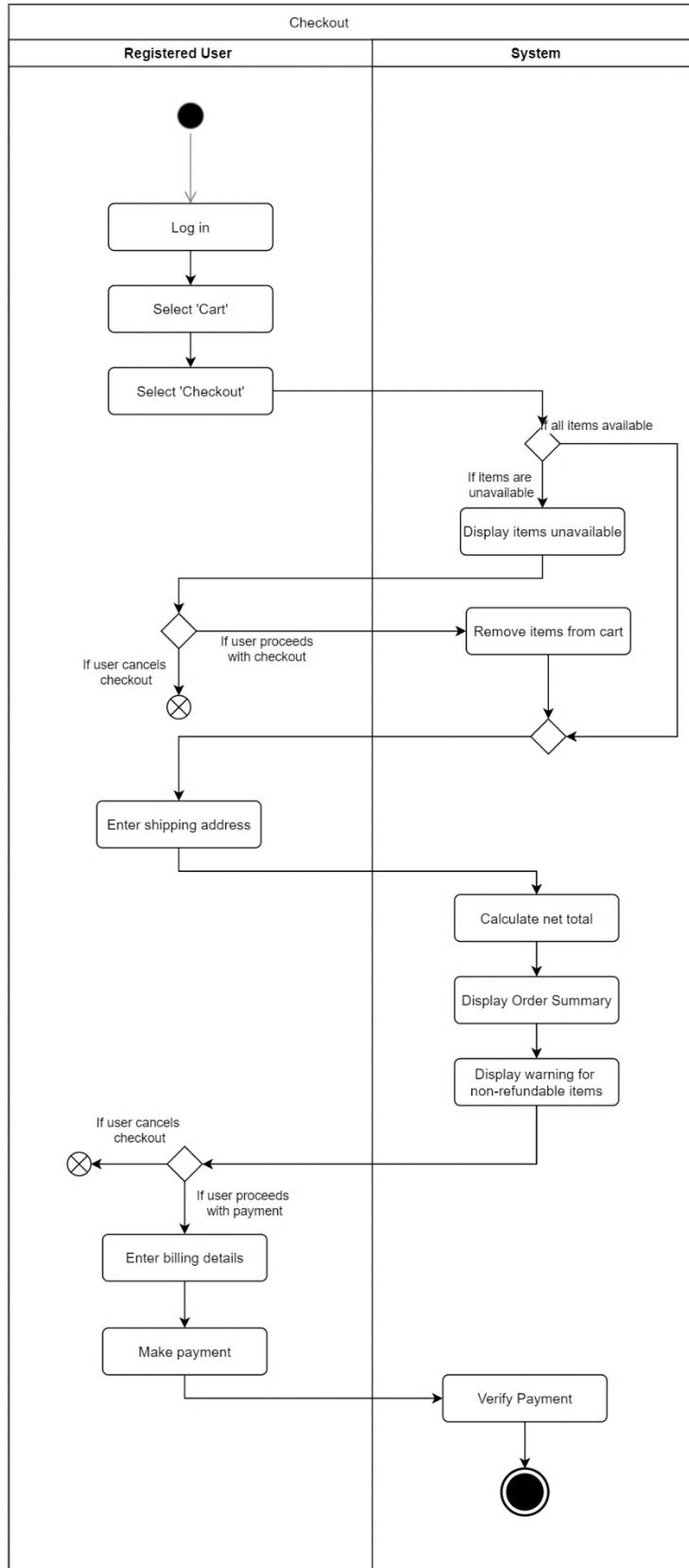


Figure 5.4.8 Checkout

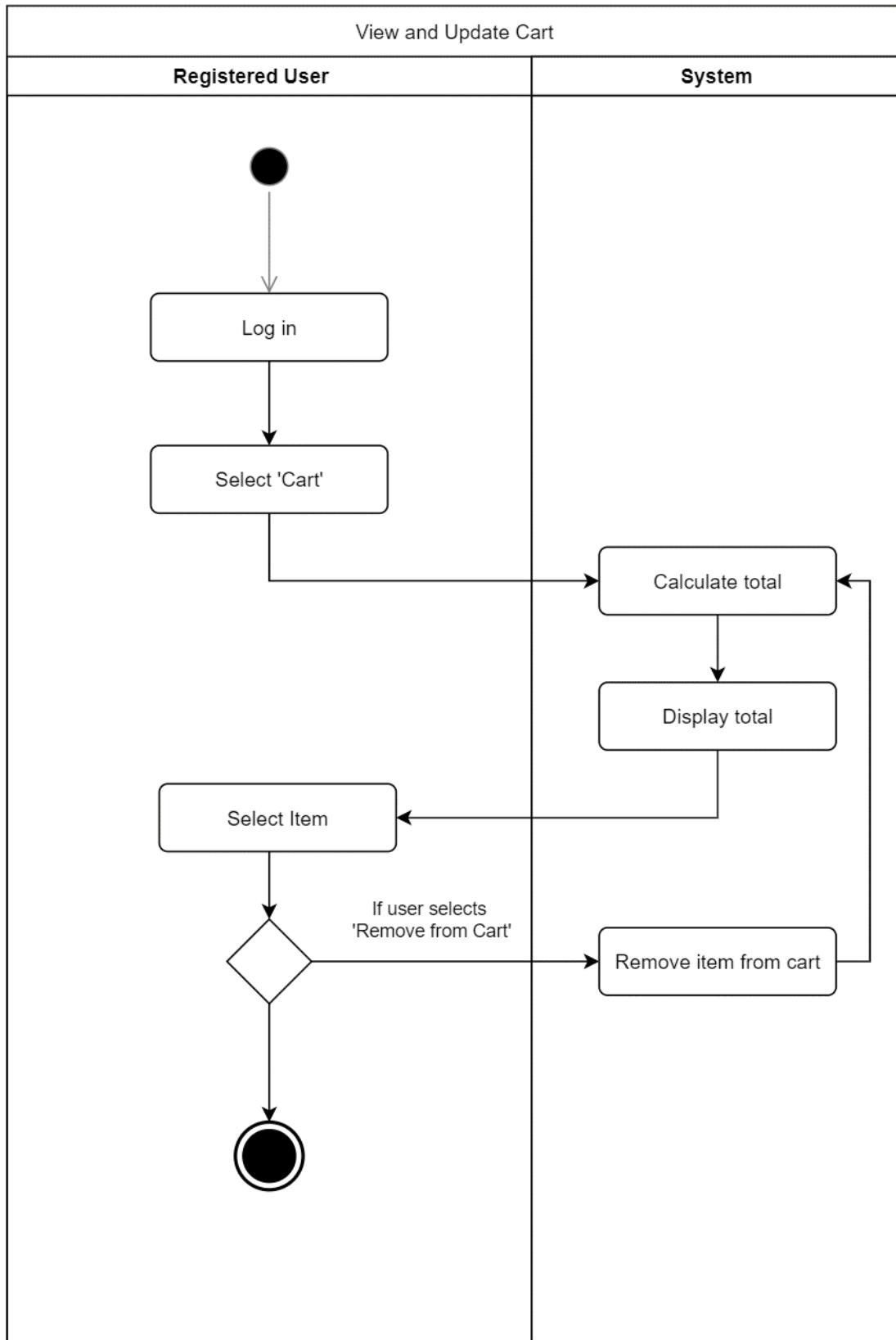


Figure 5.4.9 View and Update Cart

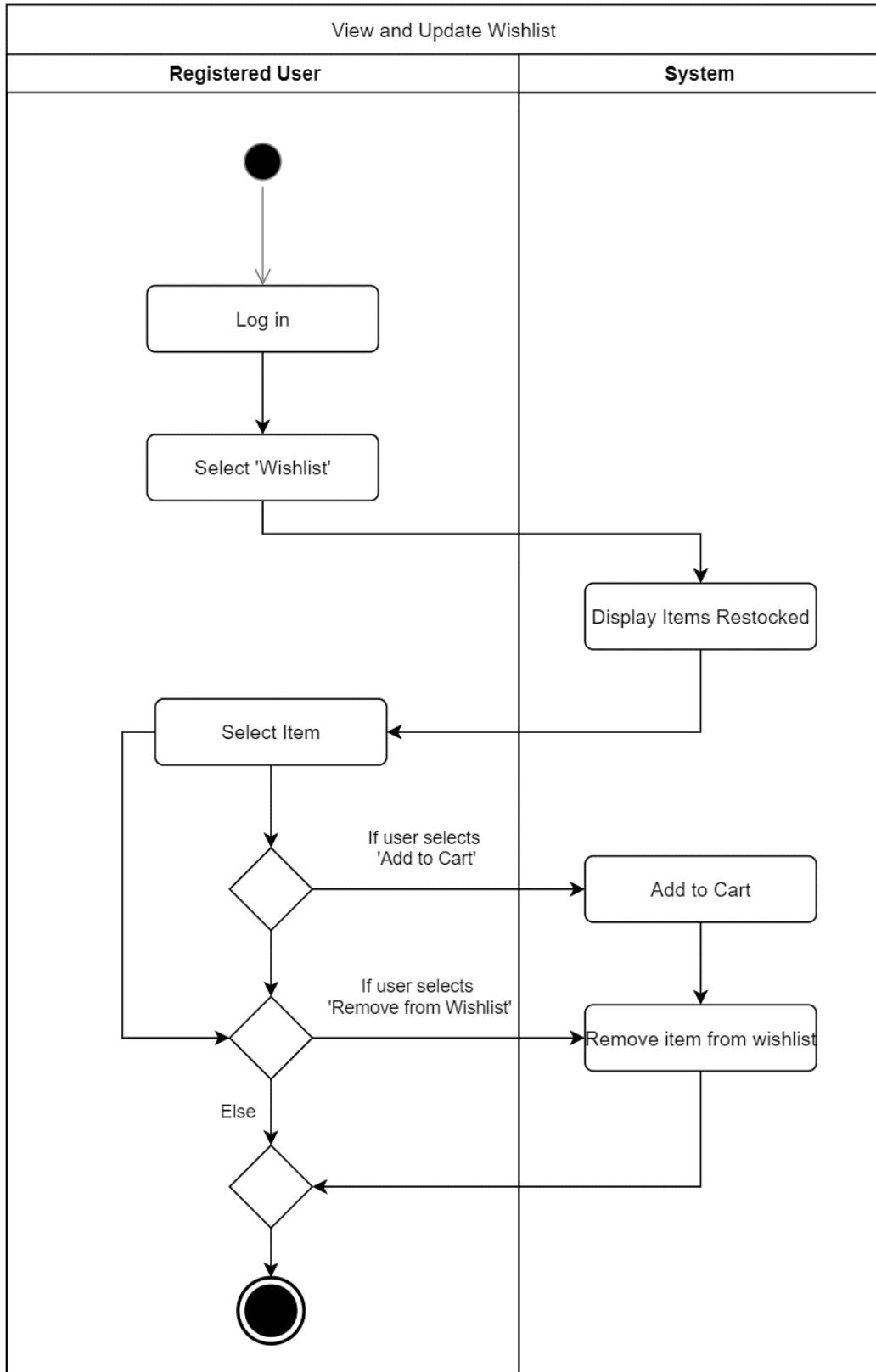


Figure 5.4.10 View and Update Wishlist

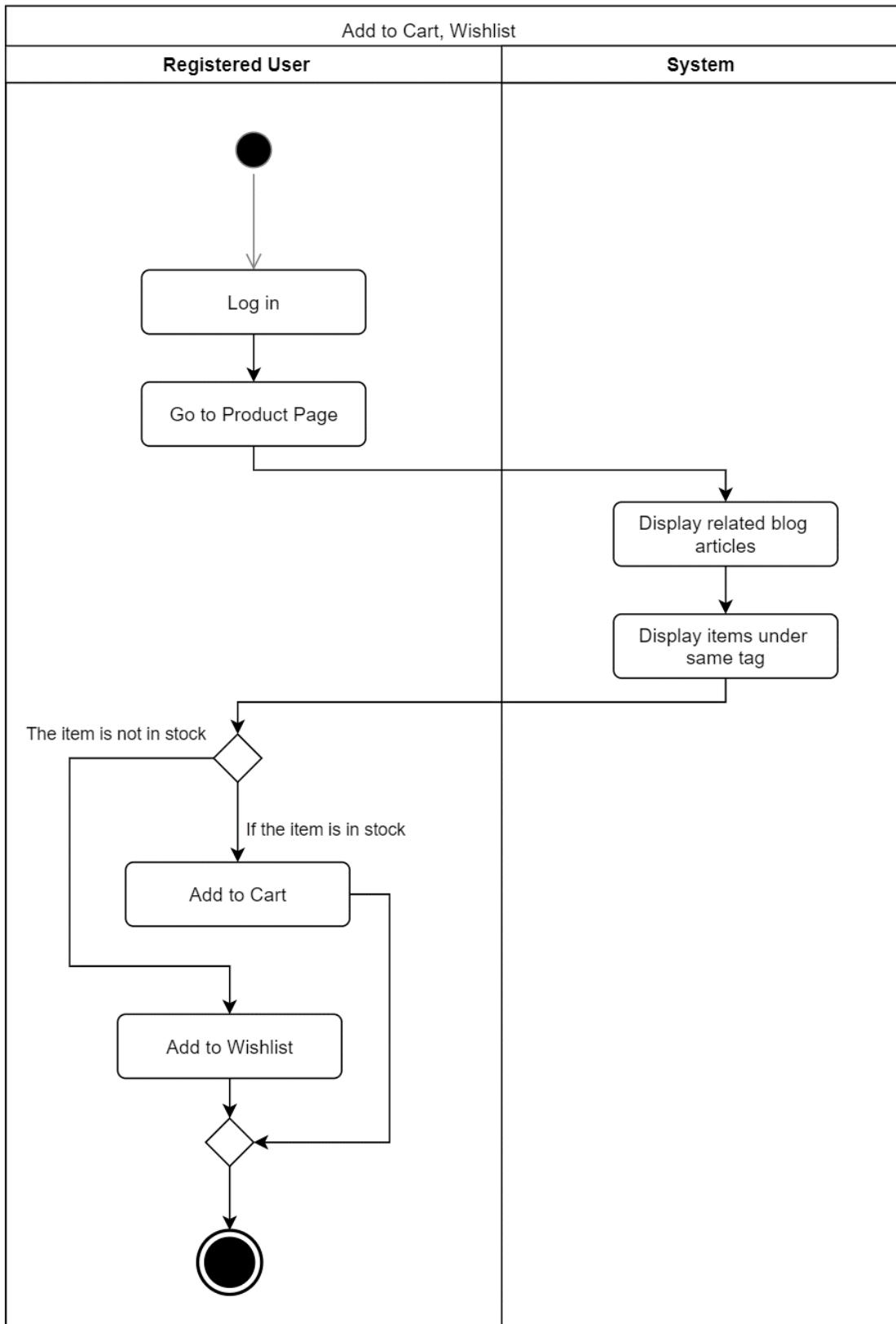


Figure 5.4.11 Add to cart, wishlist

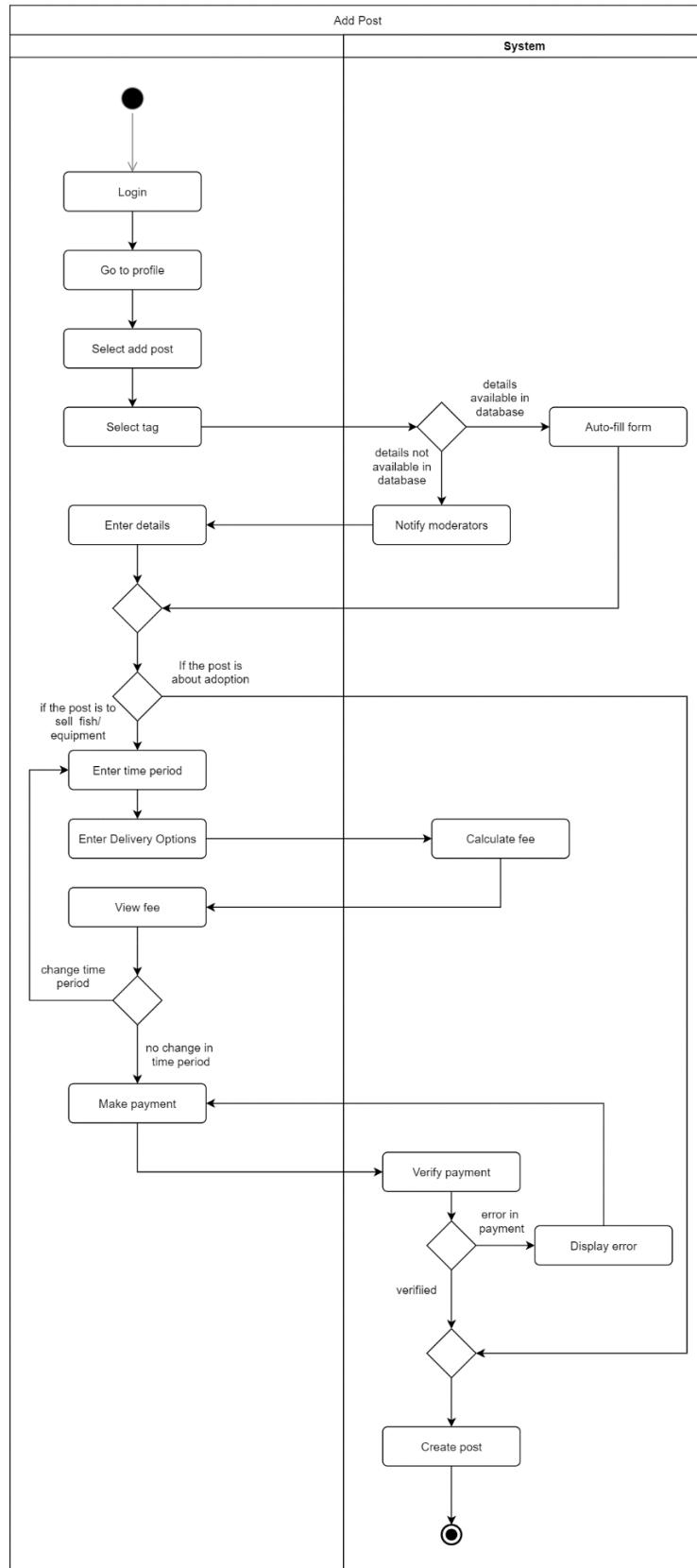


Figure 5.4.12 Add Post

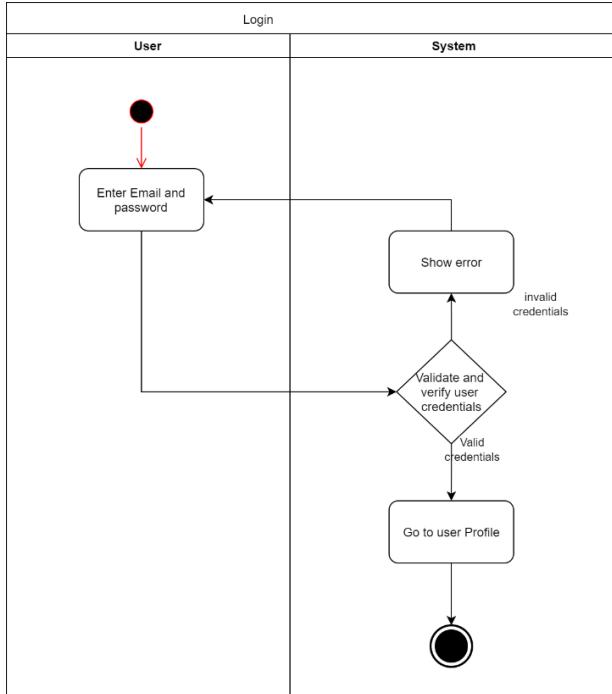


Figure 5.4.13 Login

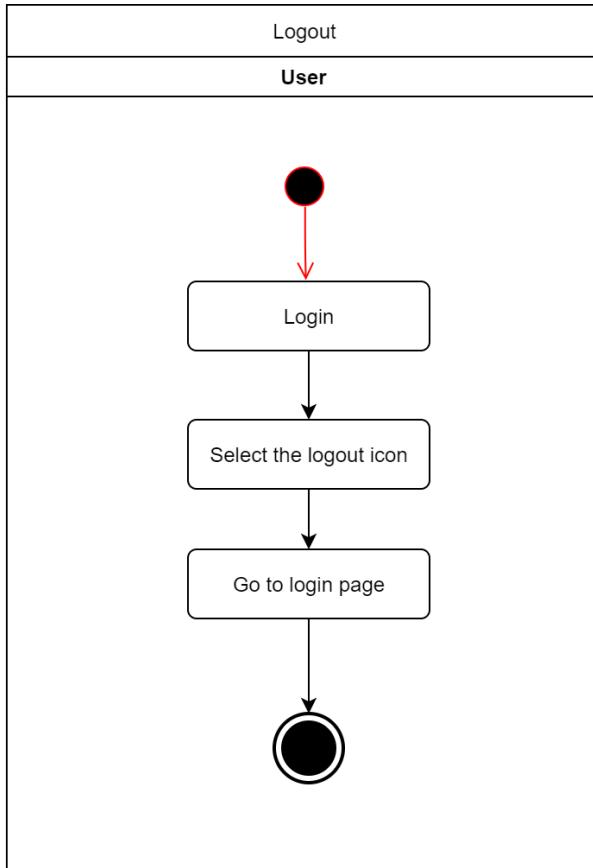


Figure 5.4.14 Logout

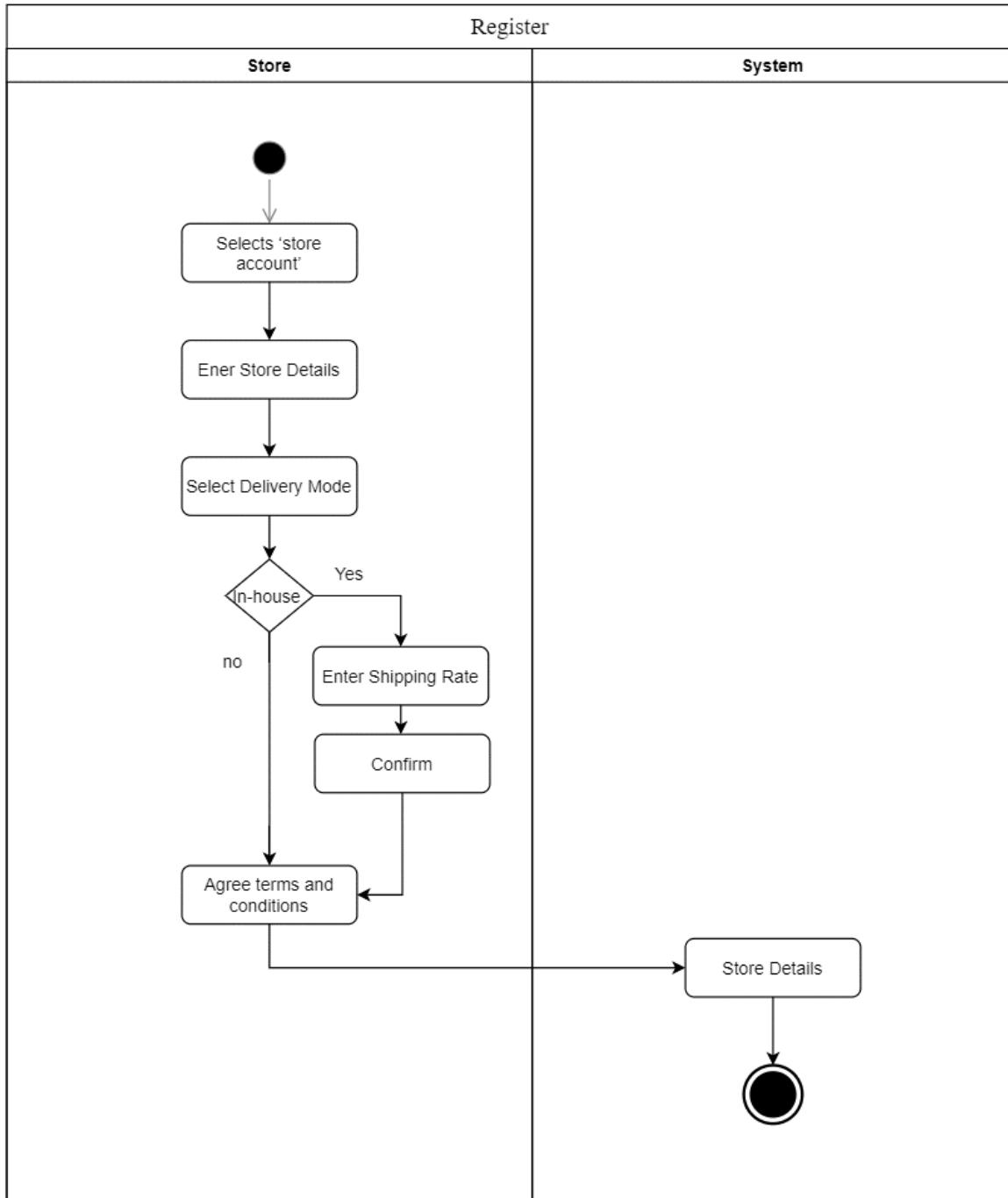


Figure 5.4.15 Register

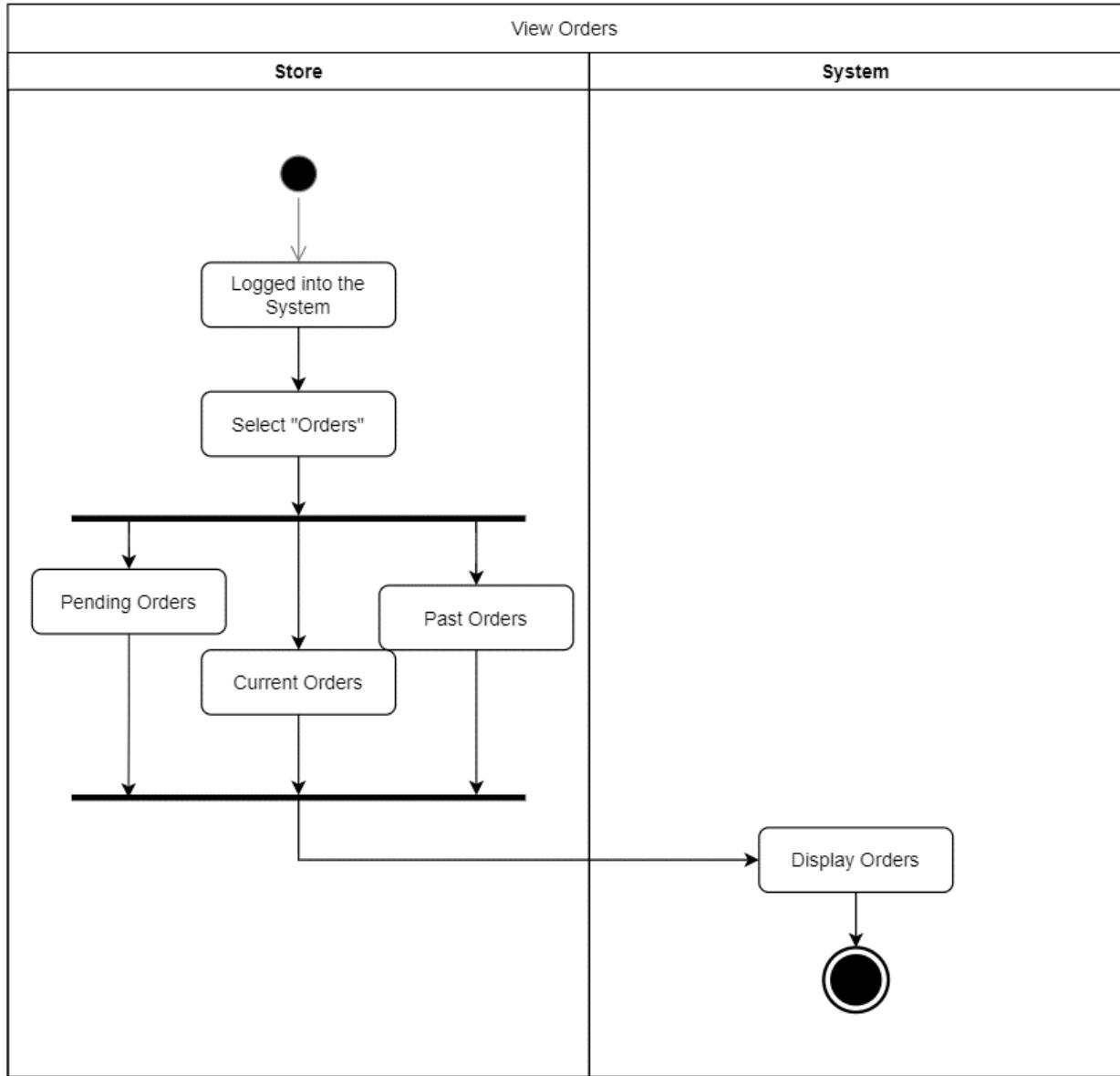


Figure 5.4.16 View Orders

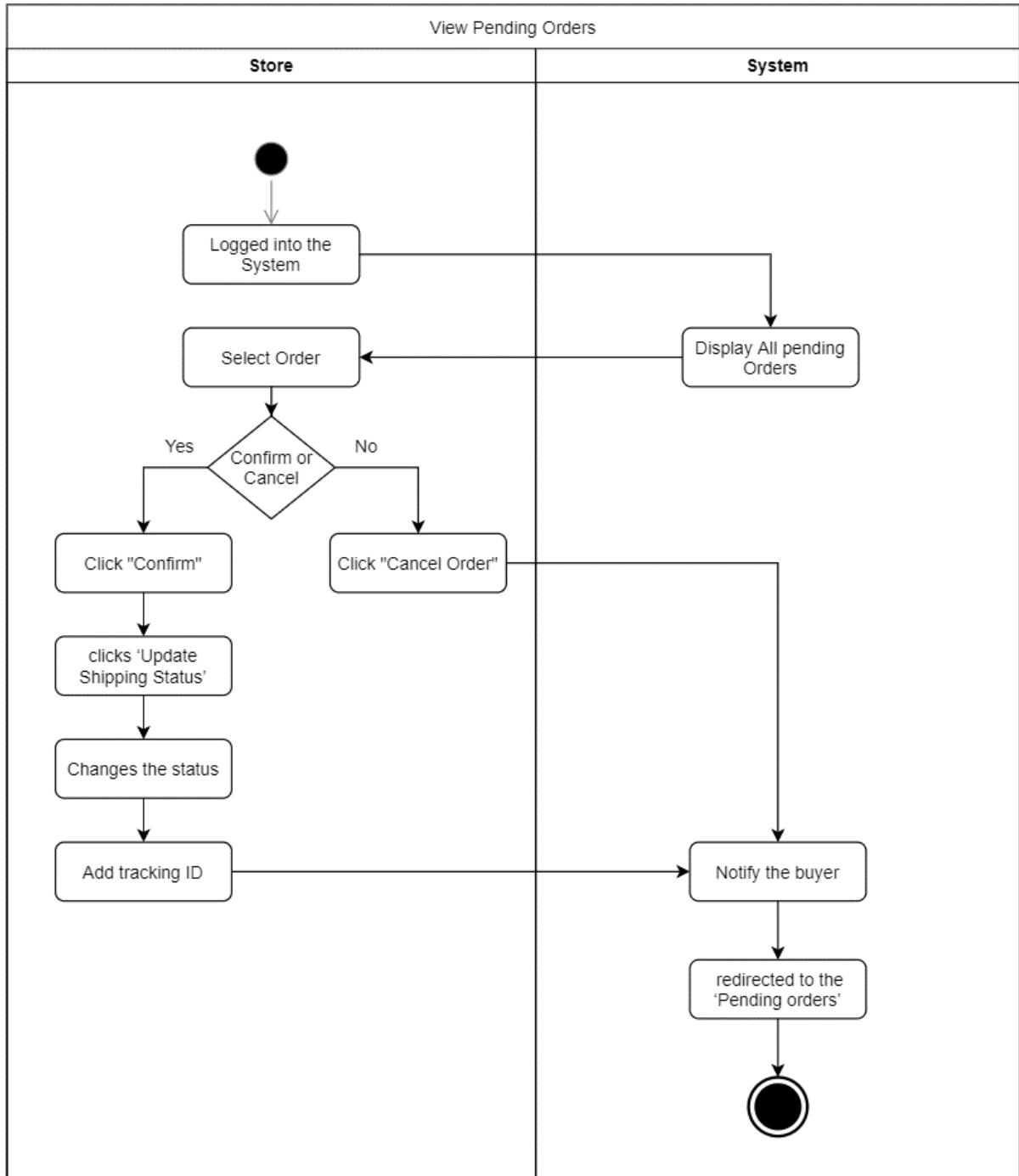


Figure 5.4.17 View Pending Orders

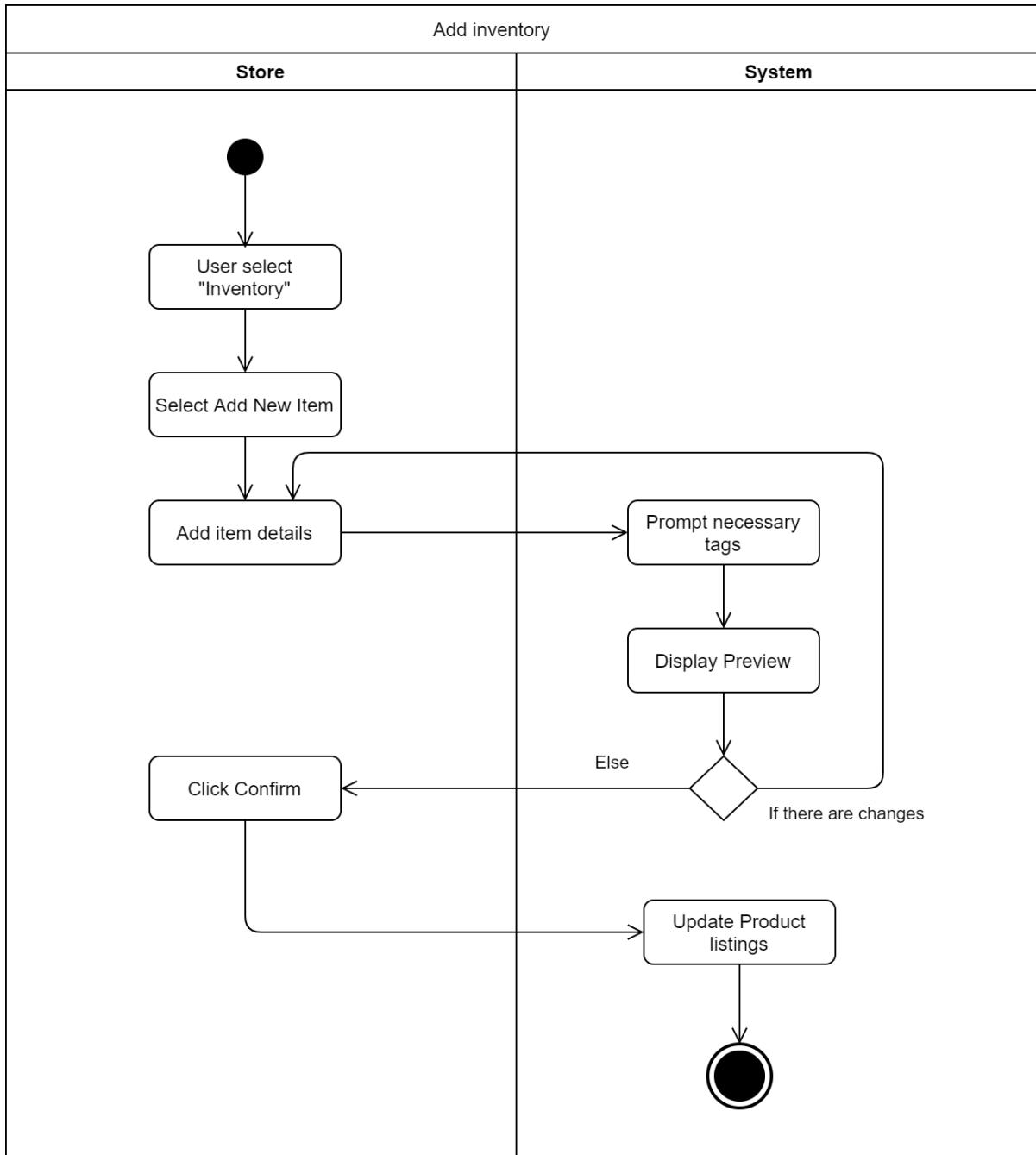


Figure 5.4.18 Add Inventory

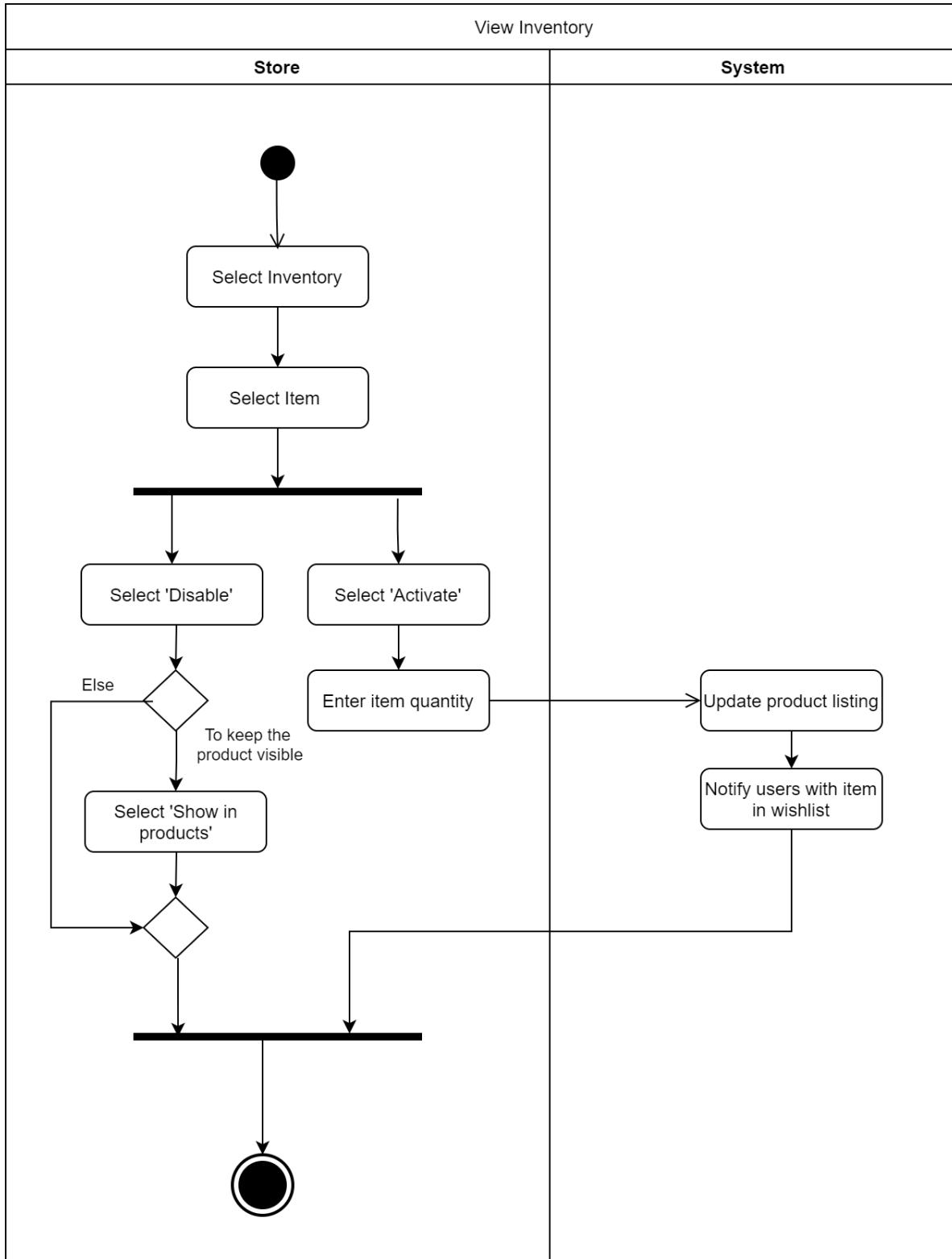


Figure 5.4.19 View Inventory

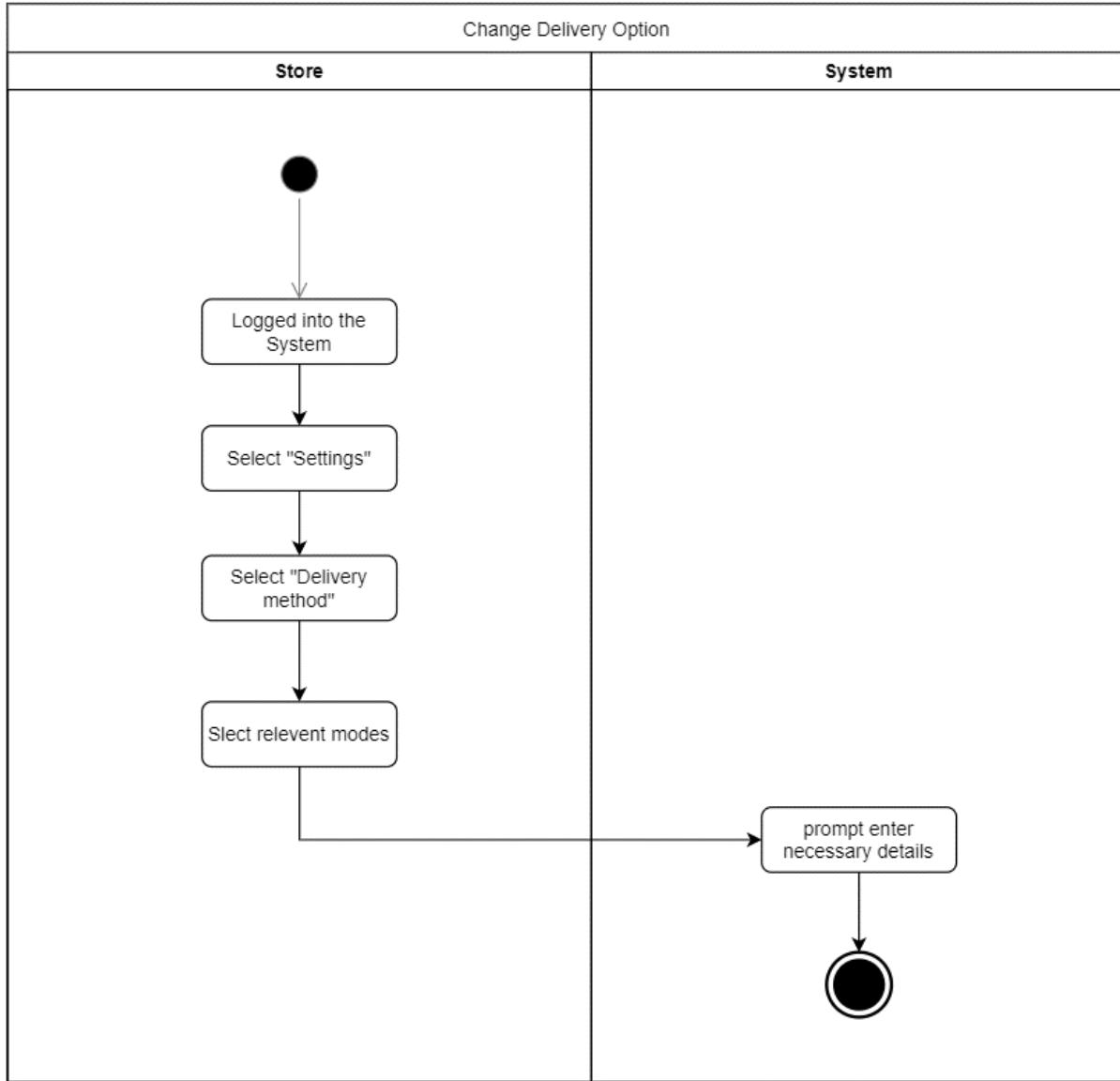


Figure 5.4.20 Change Delivery Option

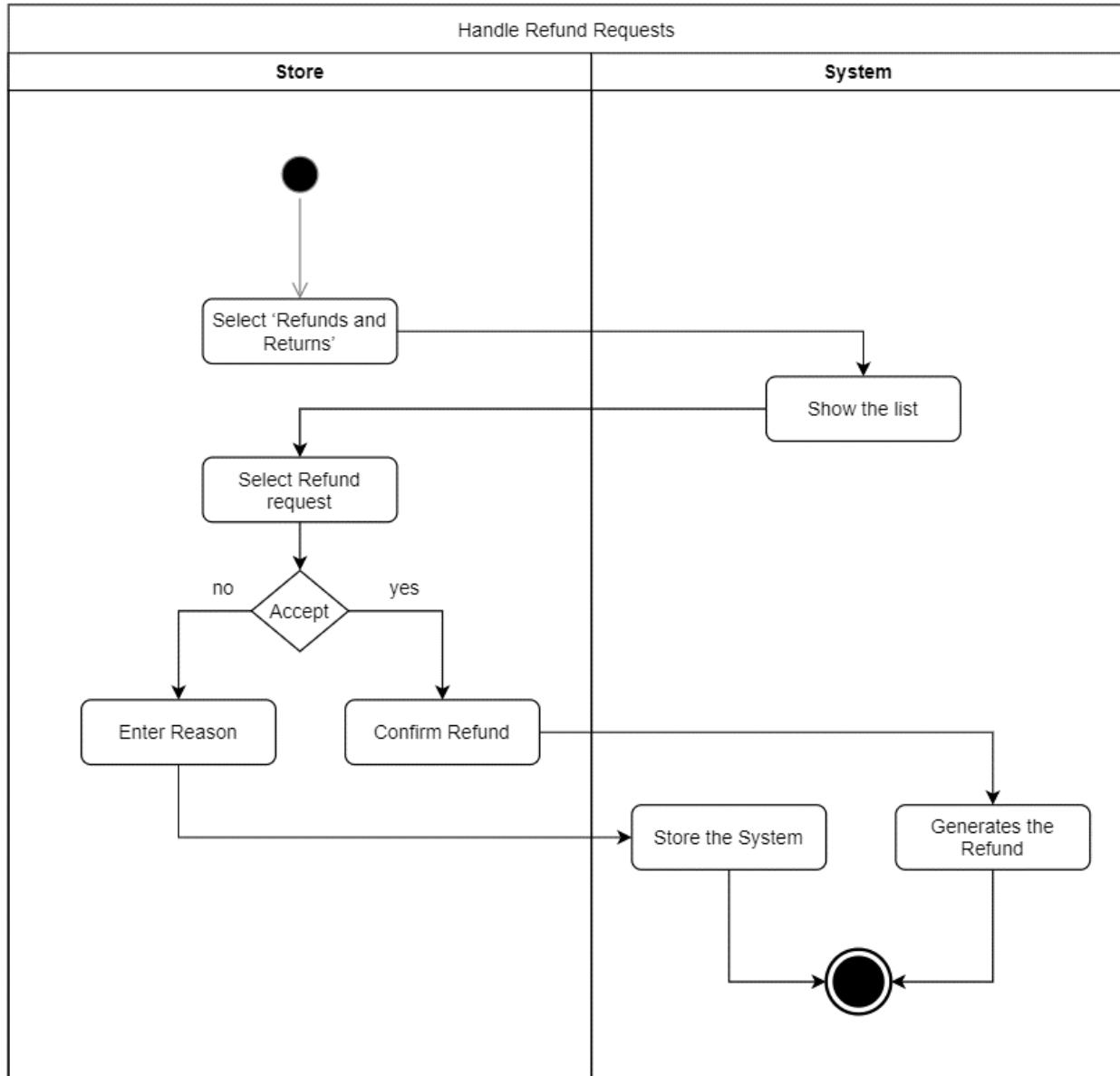


Figure 5.4.21 Handle Refund Requests

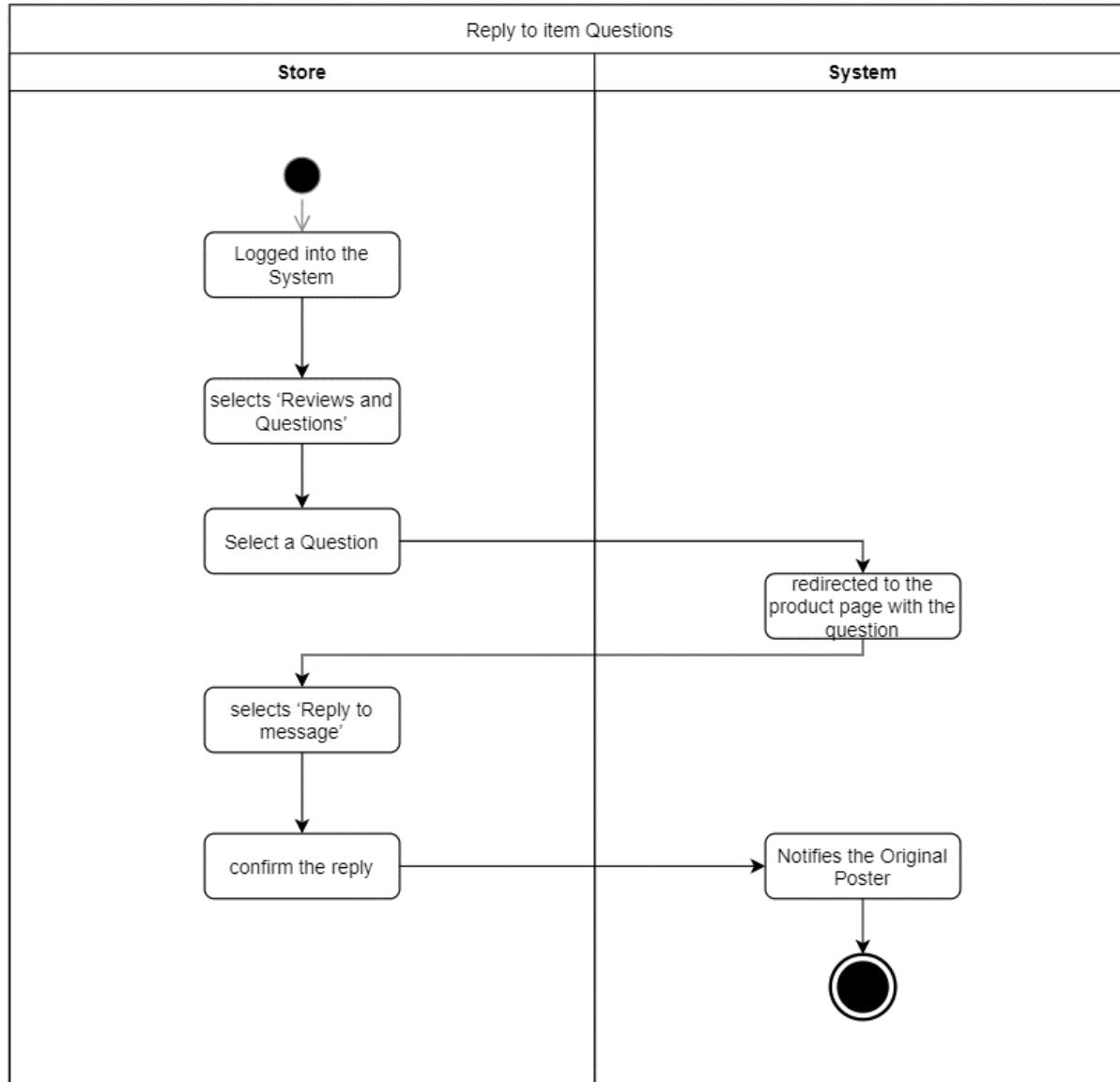


Figure 5.4.22 Reply to Item Questions

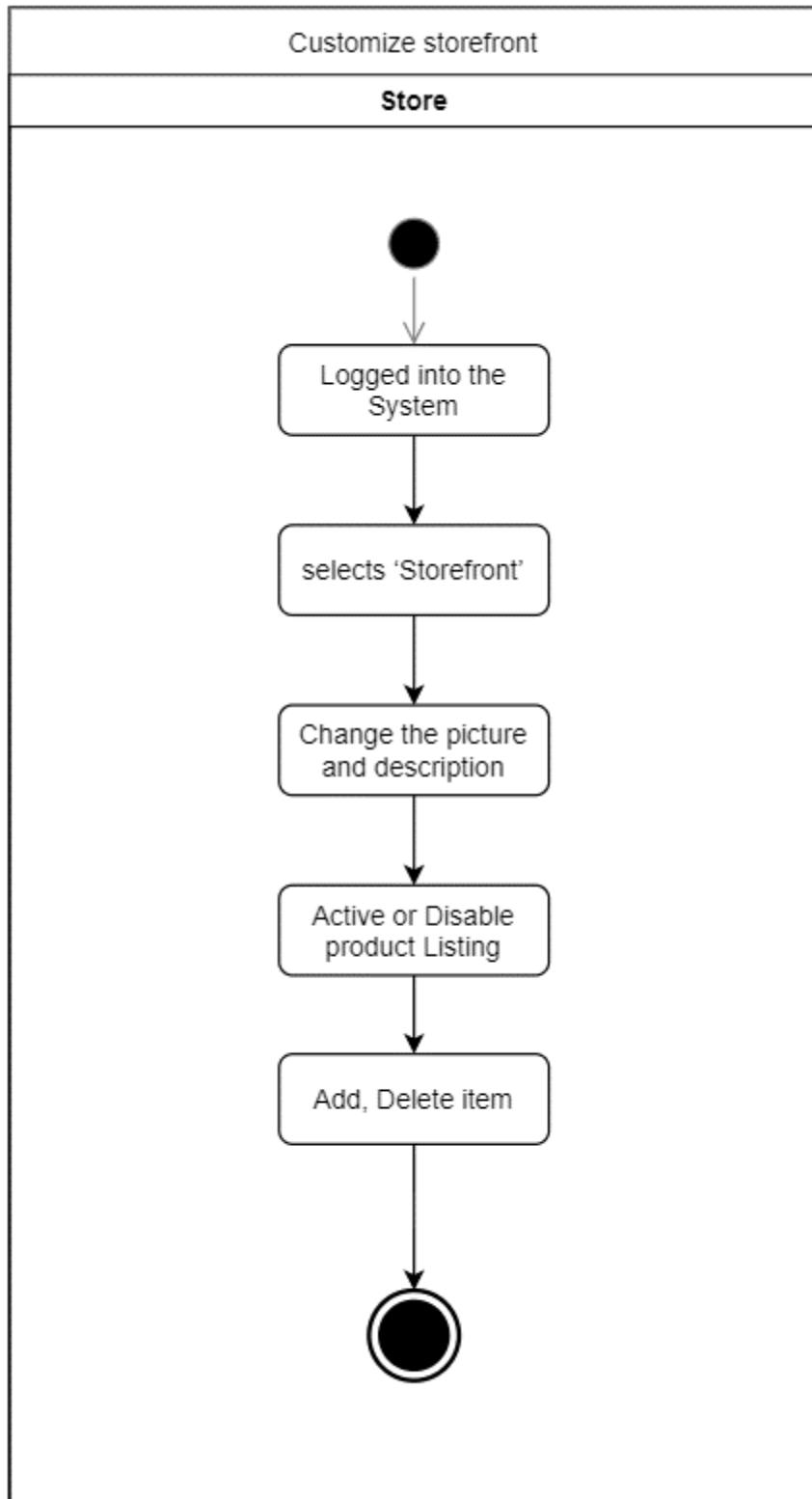


Figure 5.4.23 Customize storefront

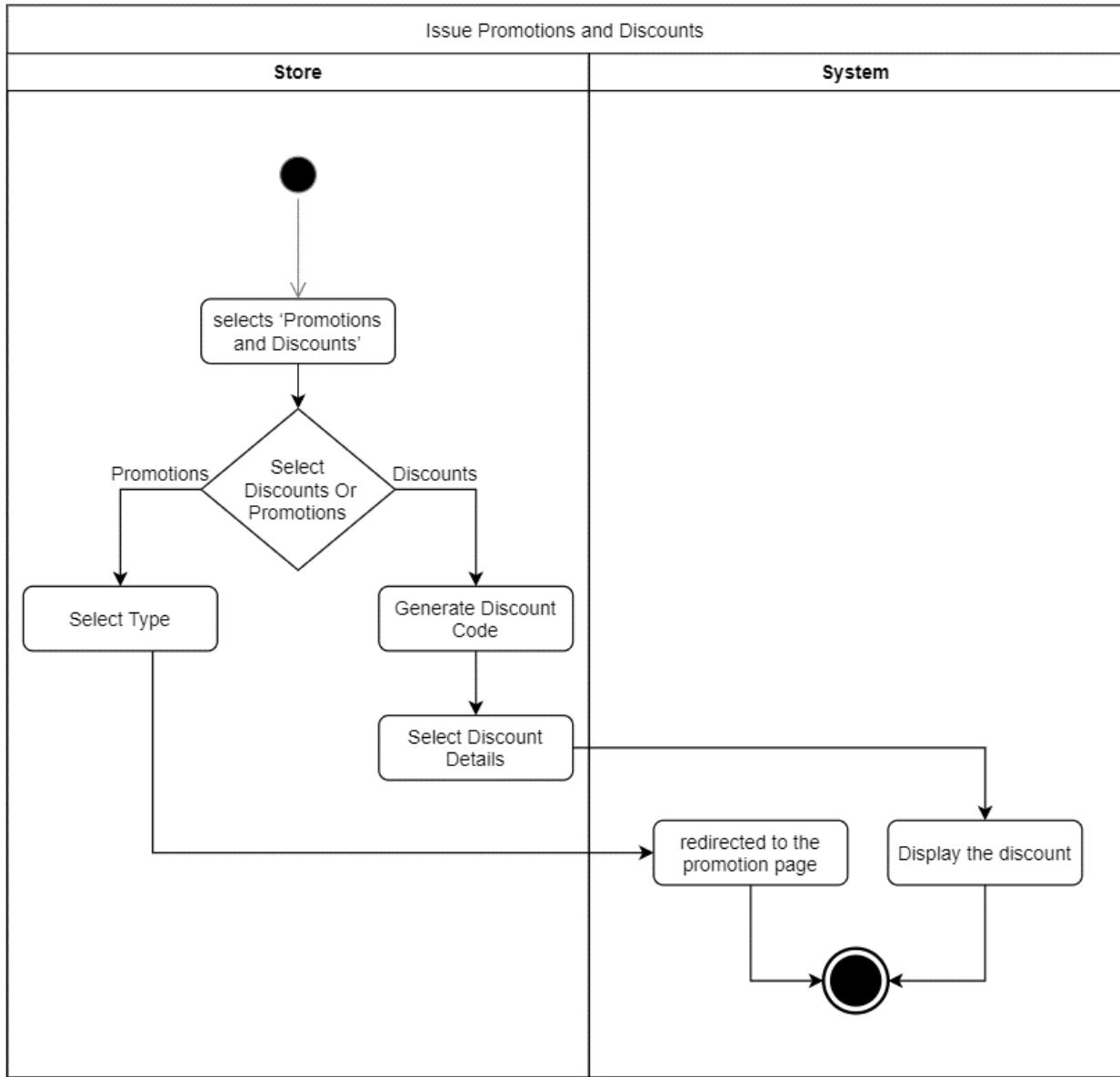


Figure 5.4.24 Issue Promotions and Discounts

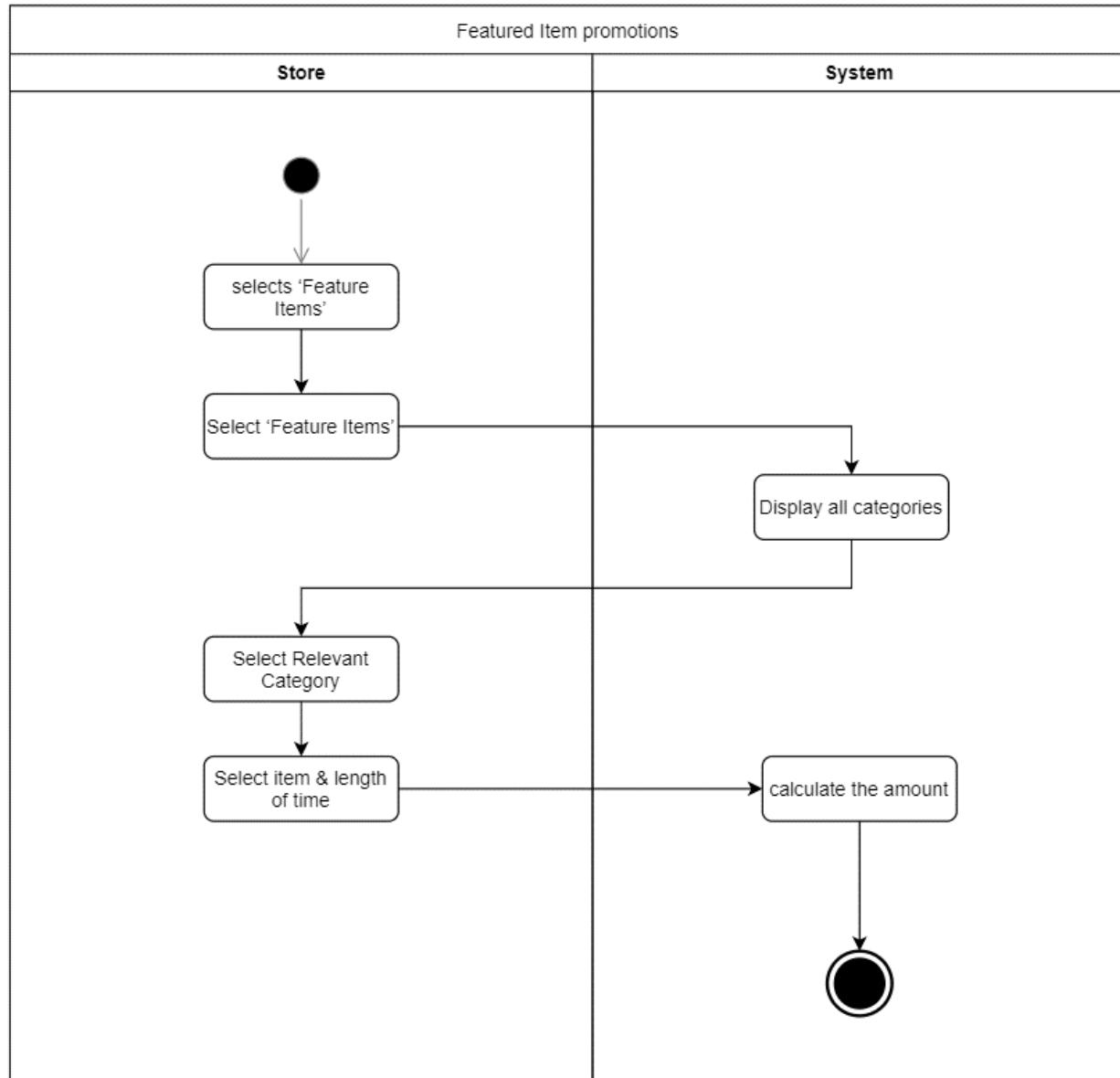


Figure 5.4.25 Featured Item Promotions

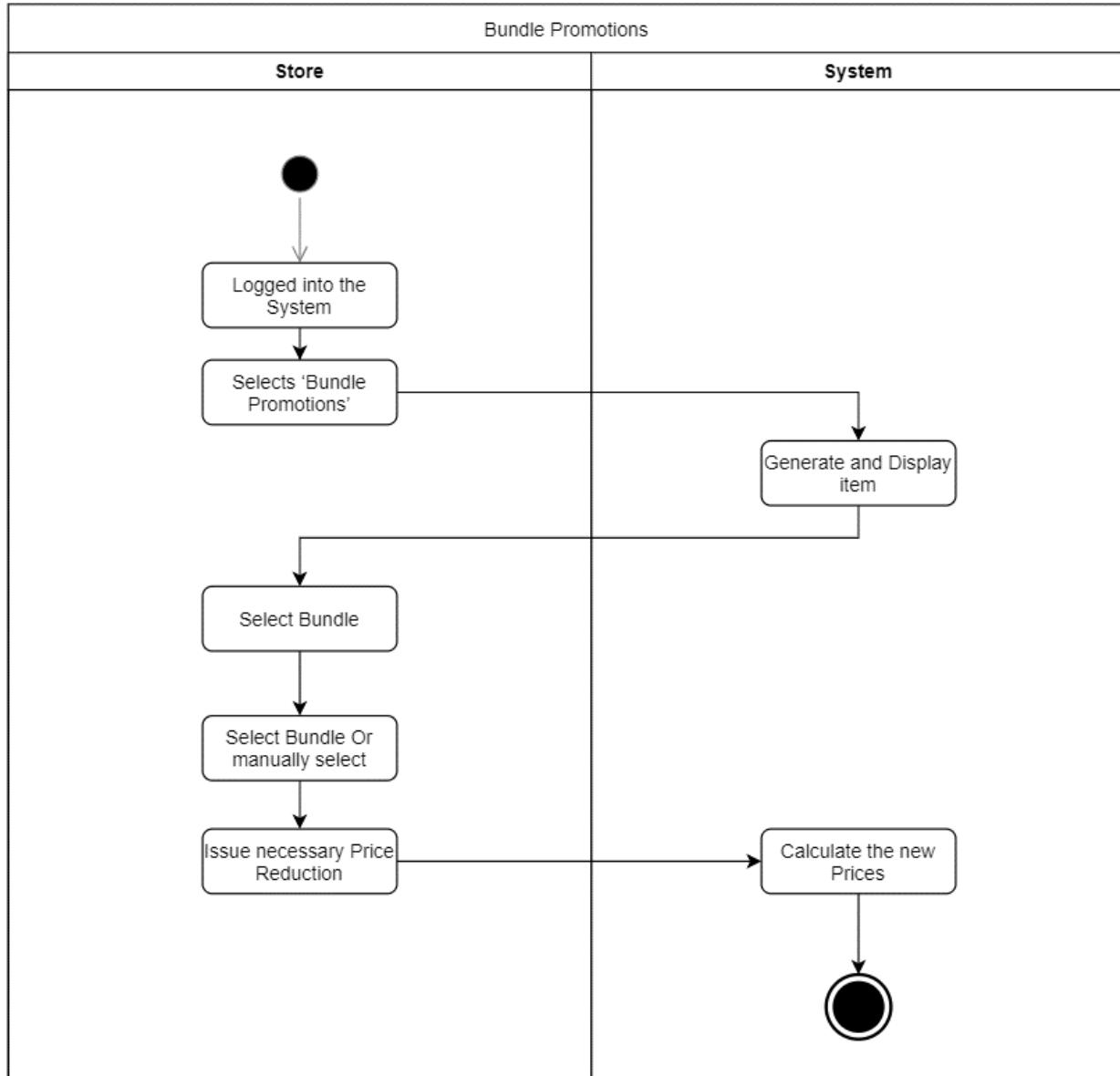


Figure 5.4.26 Bundle Promotions

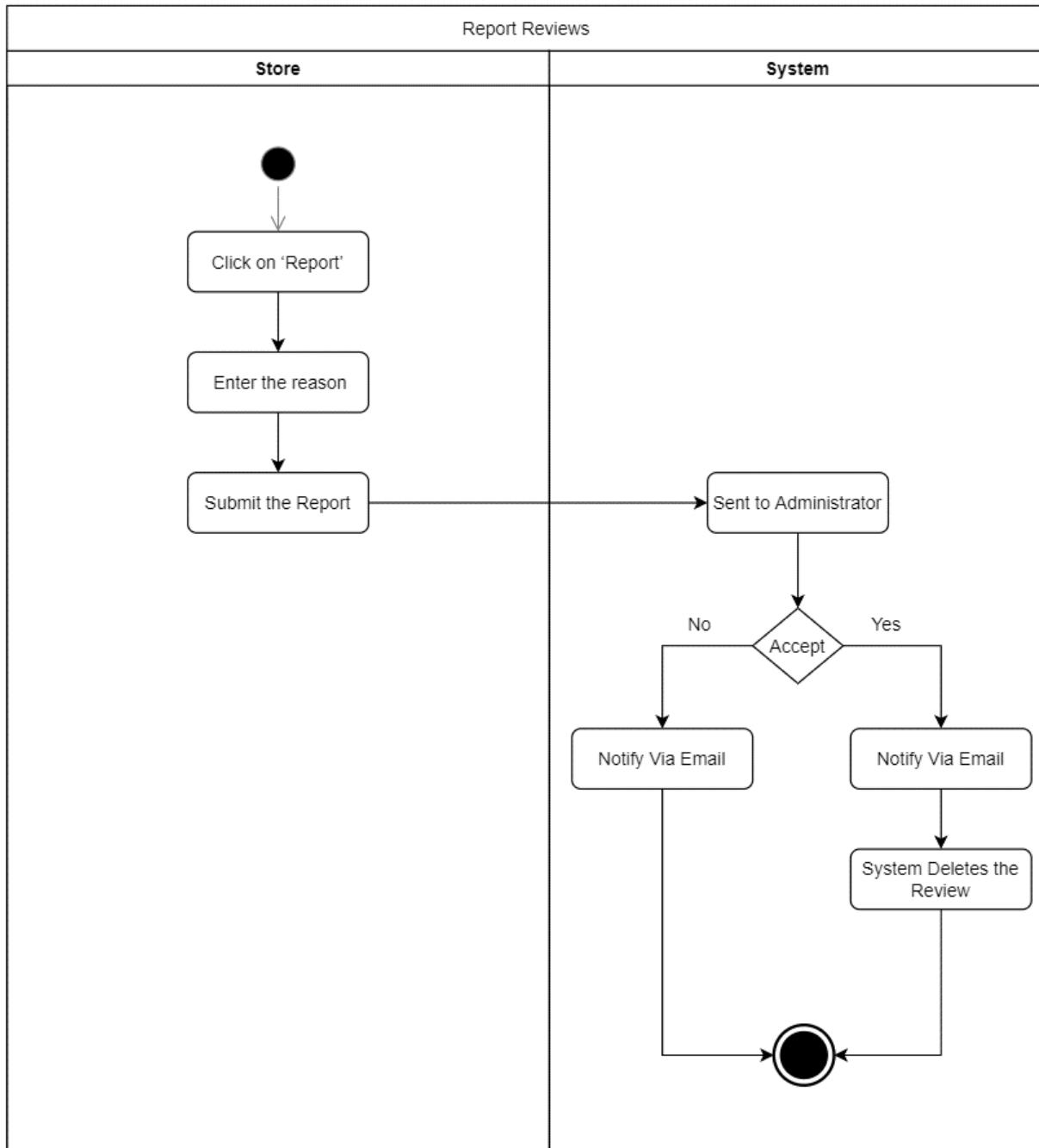


Figure 5.4.27 Report Review

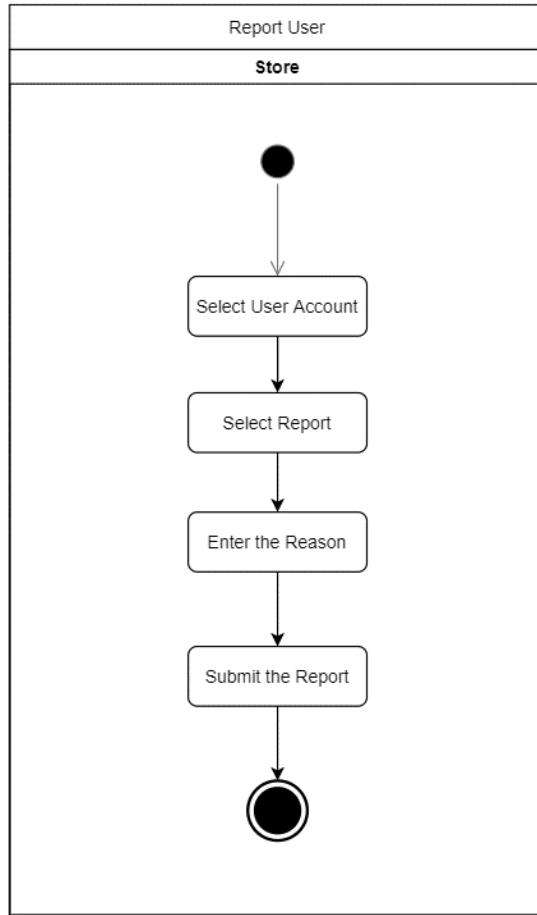


Figure 5.4.28 Report User

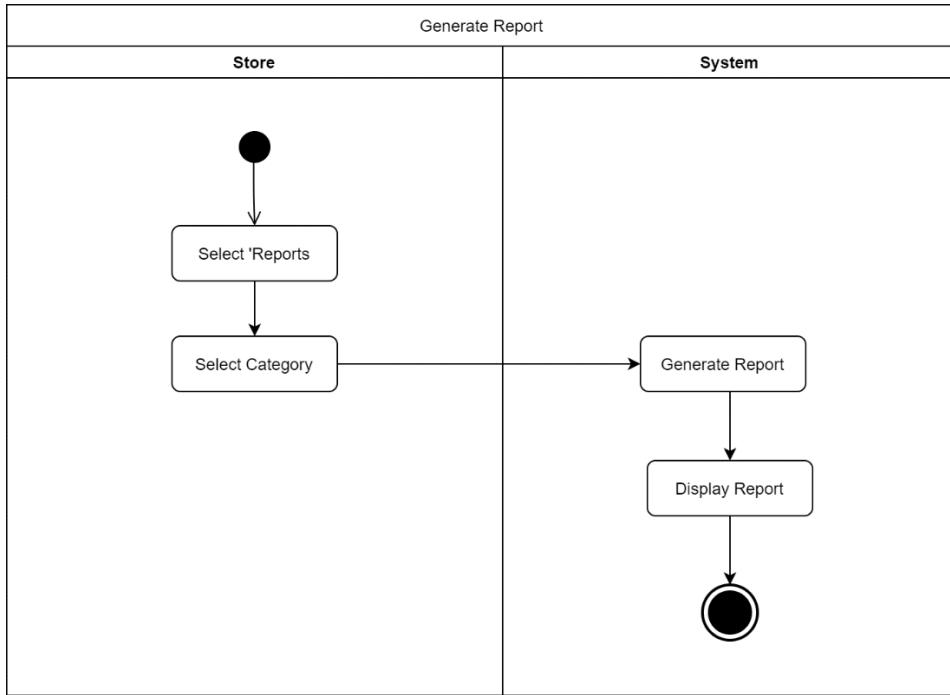


Figure 5.4.29 Generate Report

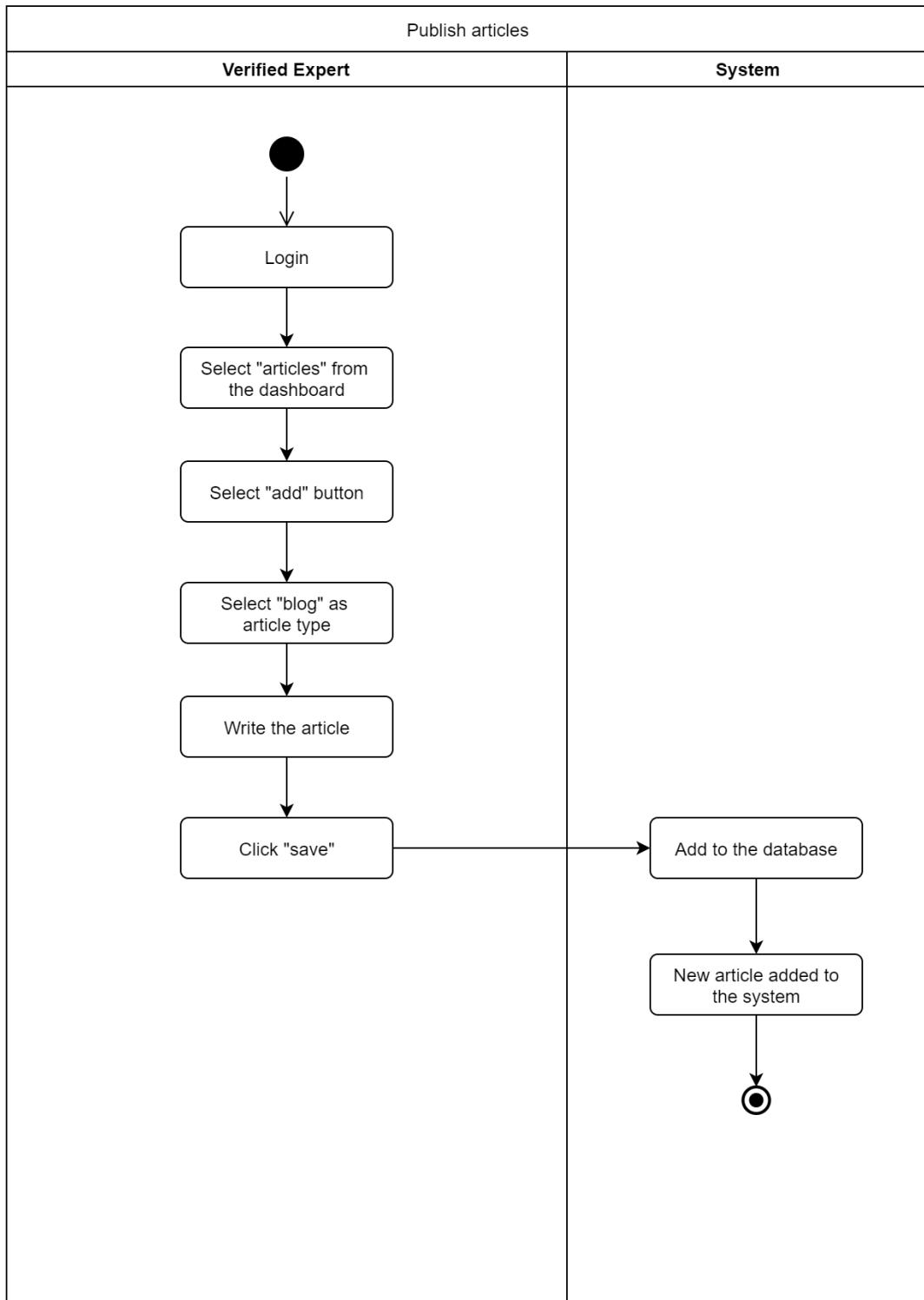


Figure 5.4.30 Publish Article

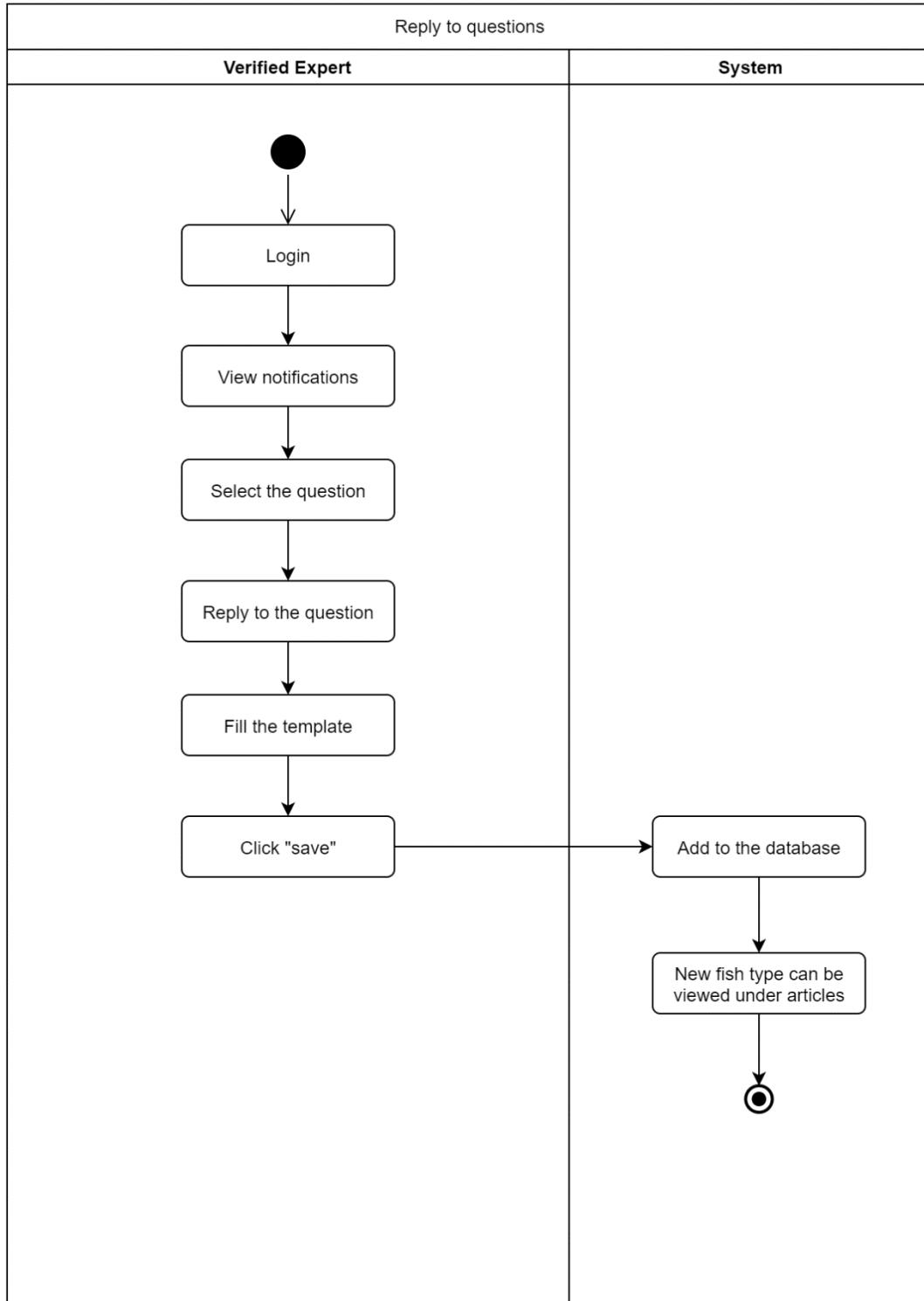


Figure 5.4.31 Reply to Question

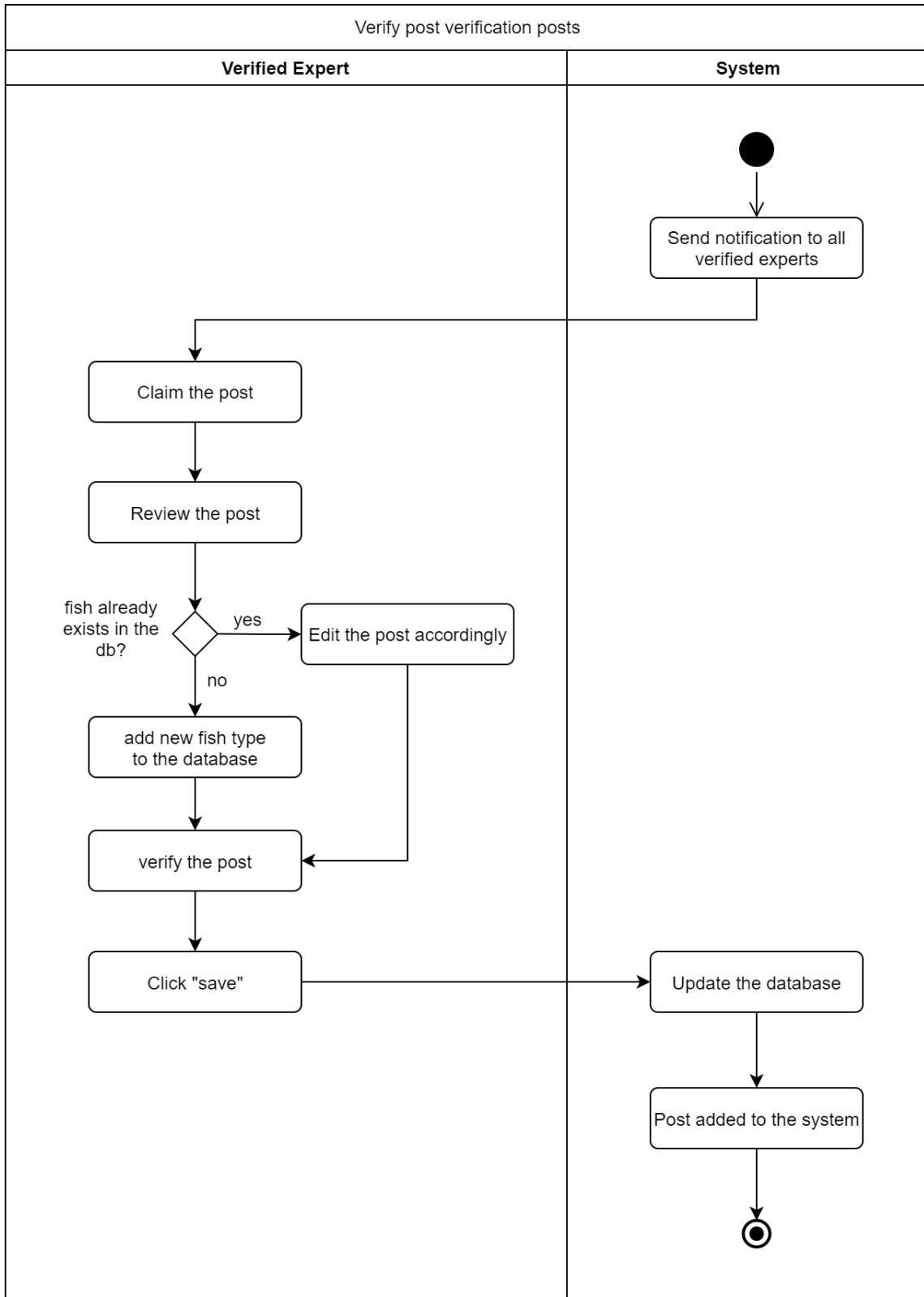


Figure 5.4.32 Verify Post

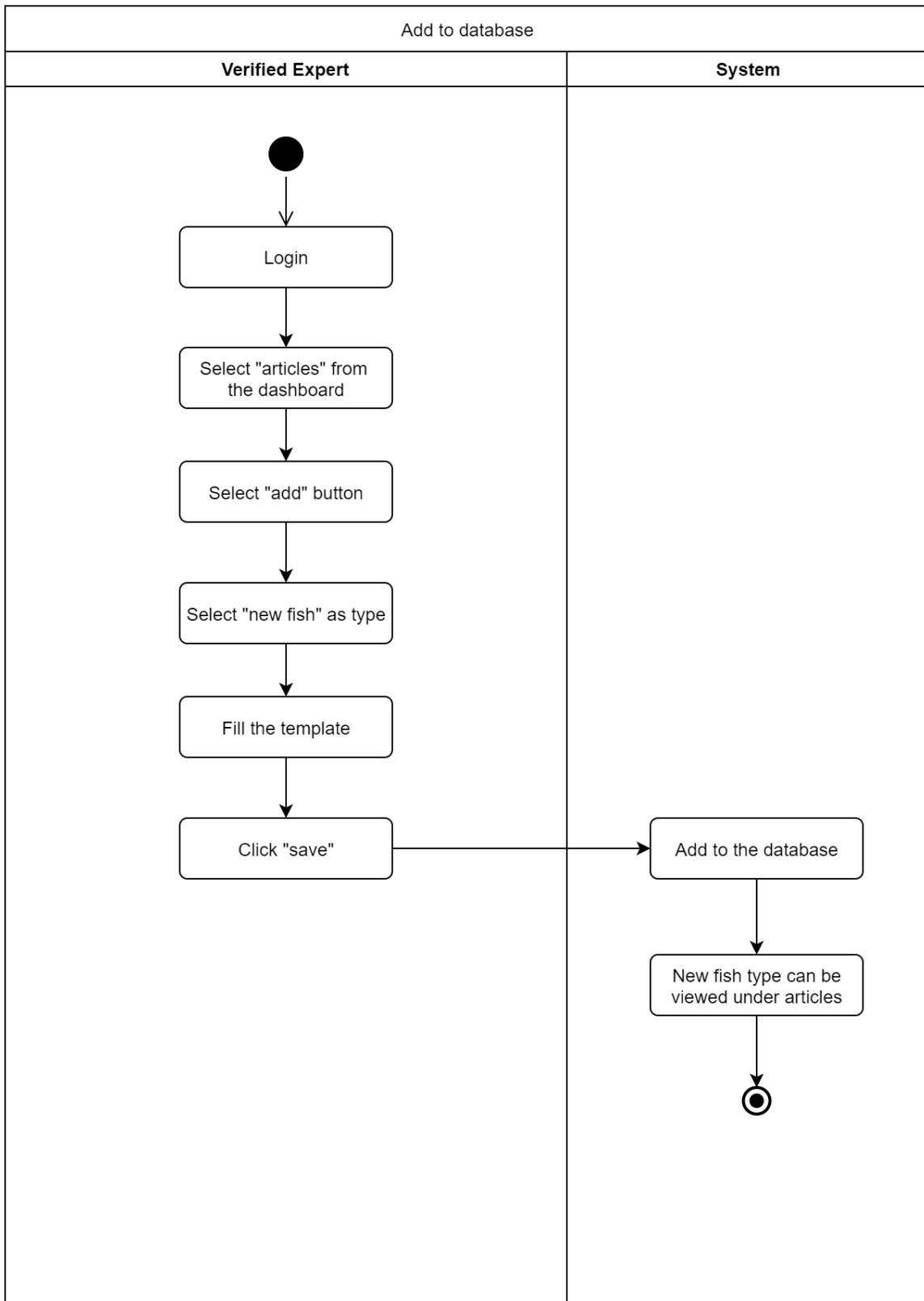


Figure 5.4.33 Add to Database

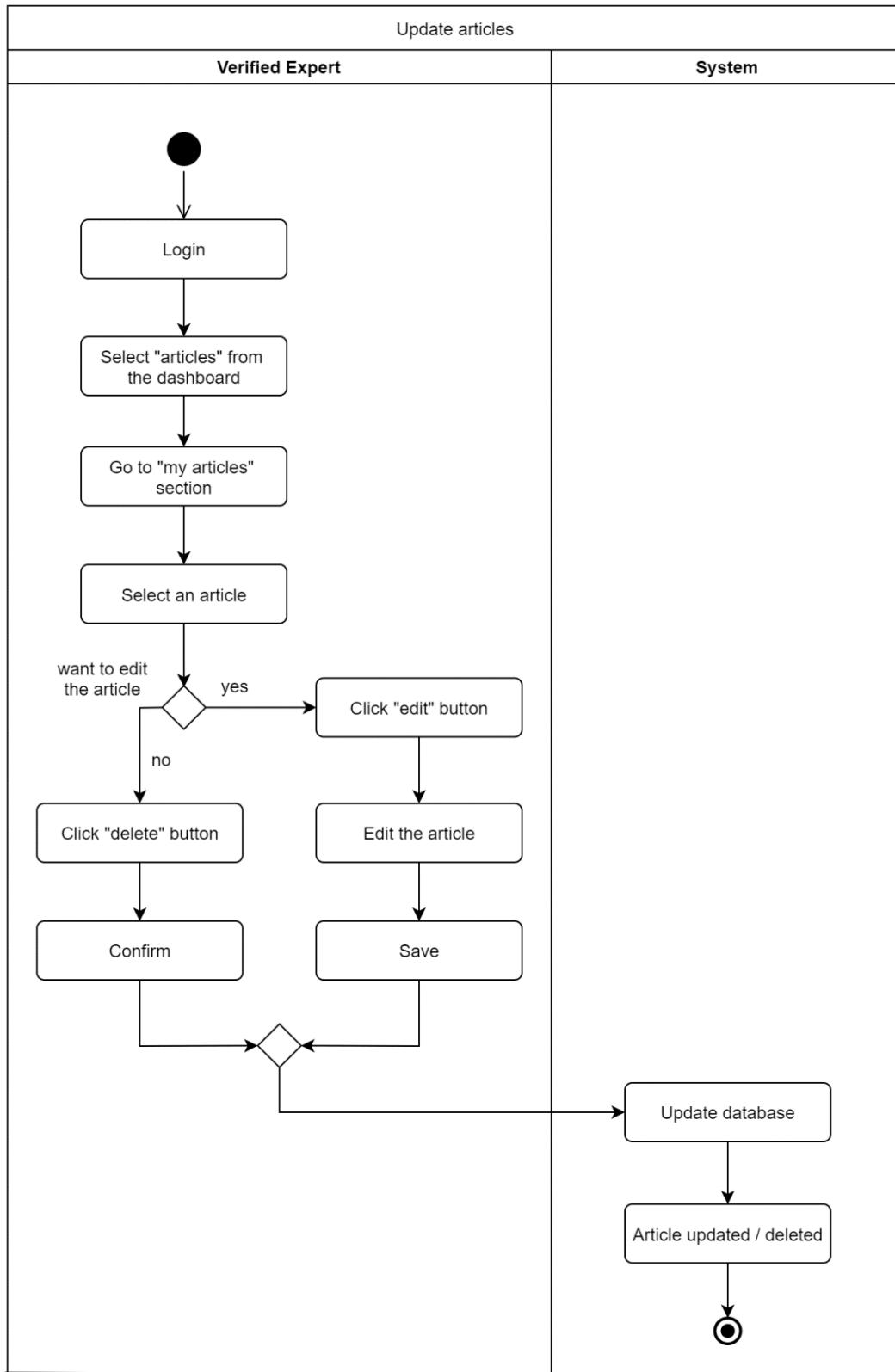


Figure 5.4.34 Update Article

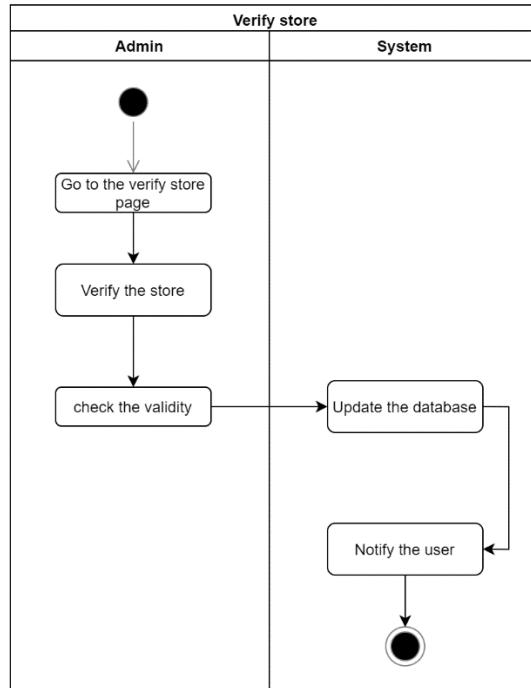


Figure 5.4.35 Verify Store

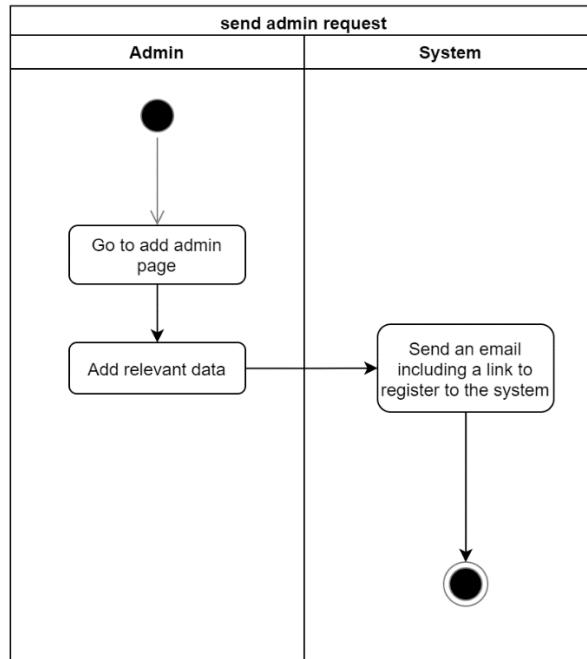


Figure 5.4.36 Send Admin Request

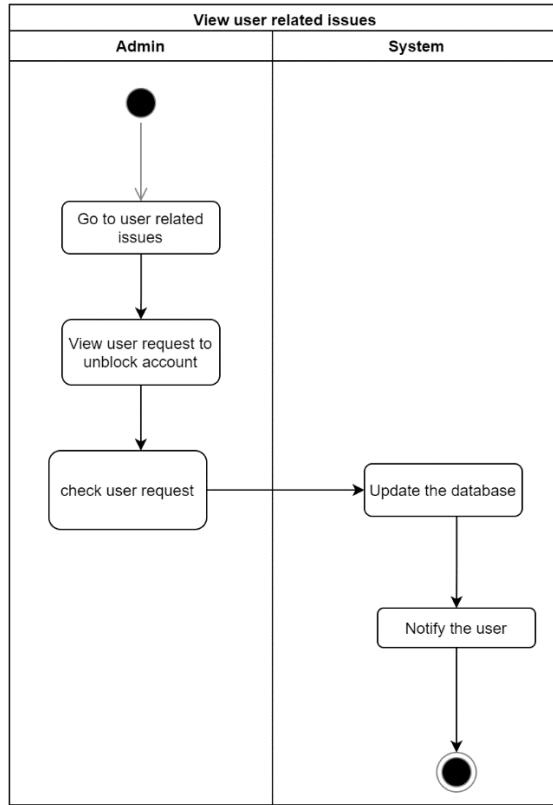


Figure 5.4.37 View User Related Issues

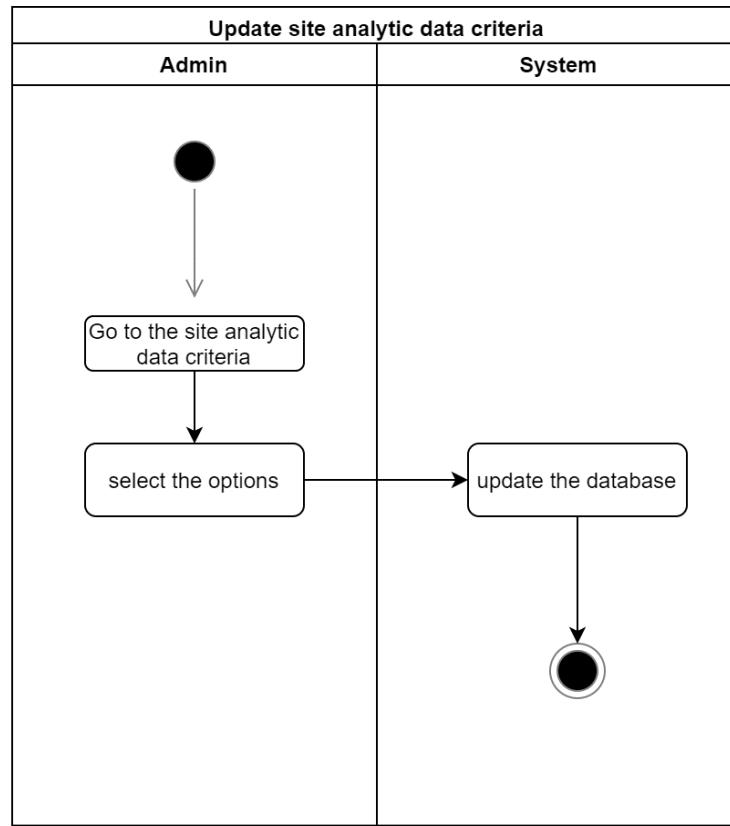


Figure 5.4.38 Update Site Display

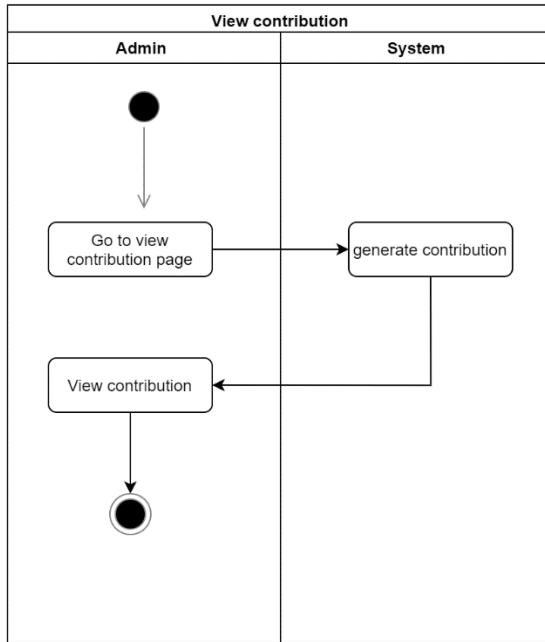


Figure 5.4.39 View Contribution

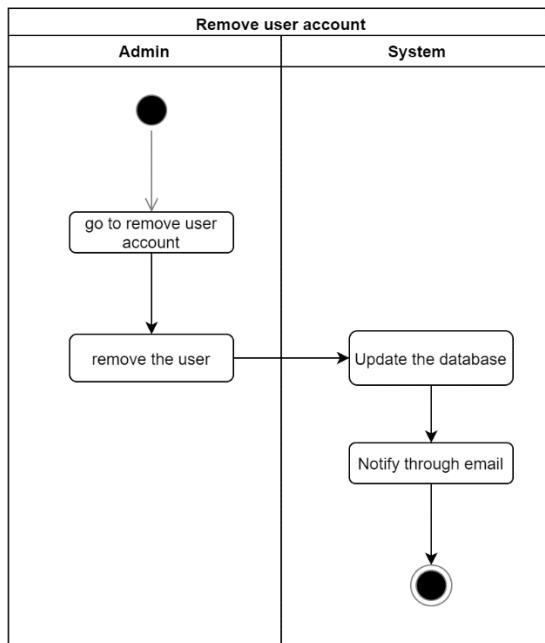


Figure 5.4.40 Remove User Account

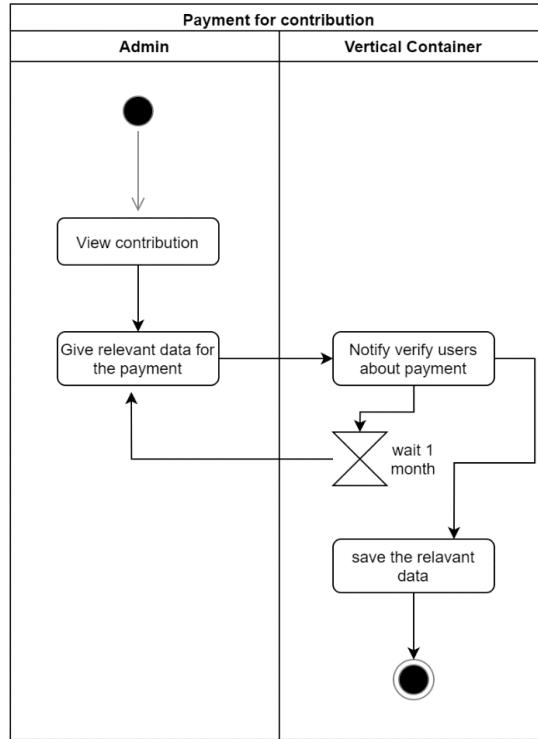


Figure 5.4.41 Payment for Contribution

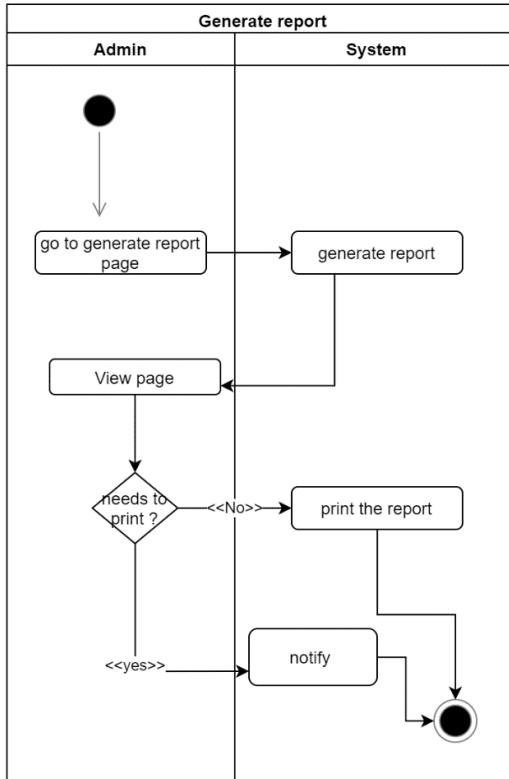


Figure 5.4.42 Generate Report

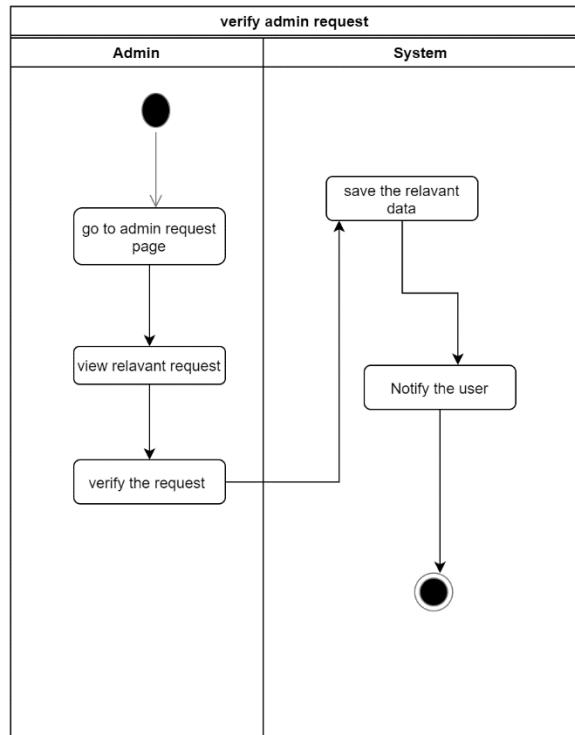


Figure 5.4.43 Verify Admin Request

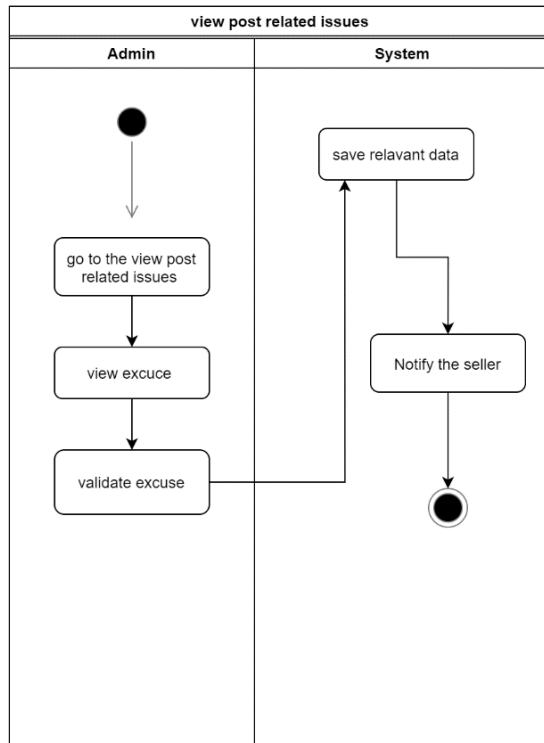


Figure 5.4.44 Verify Post Related Issues

## 5.5 State Transition Diagrams

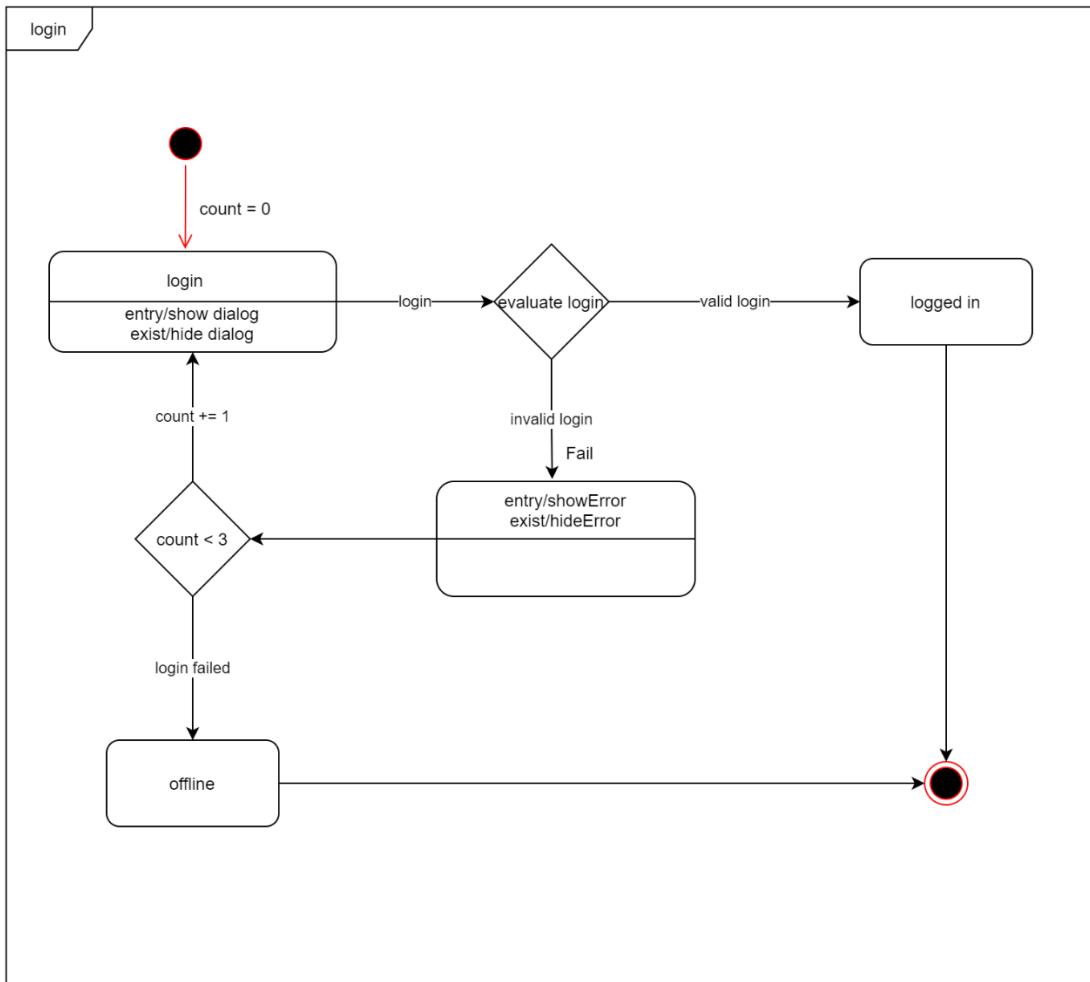


Figure 5.5.1 Login

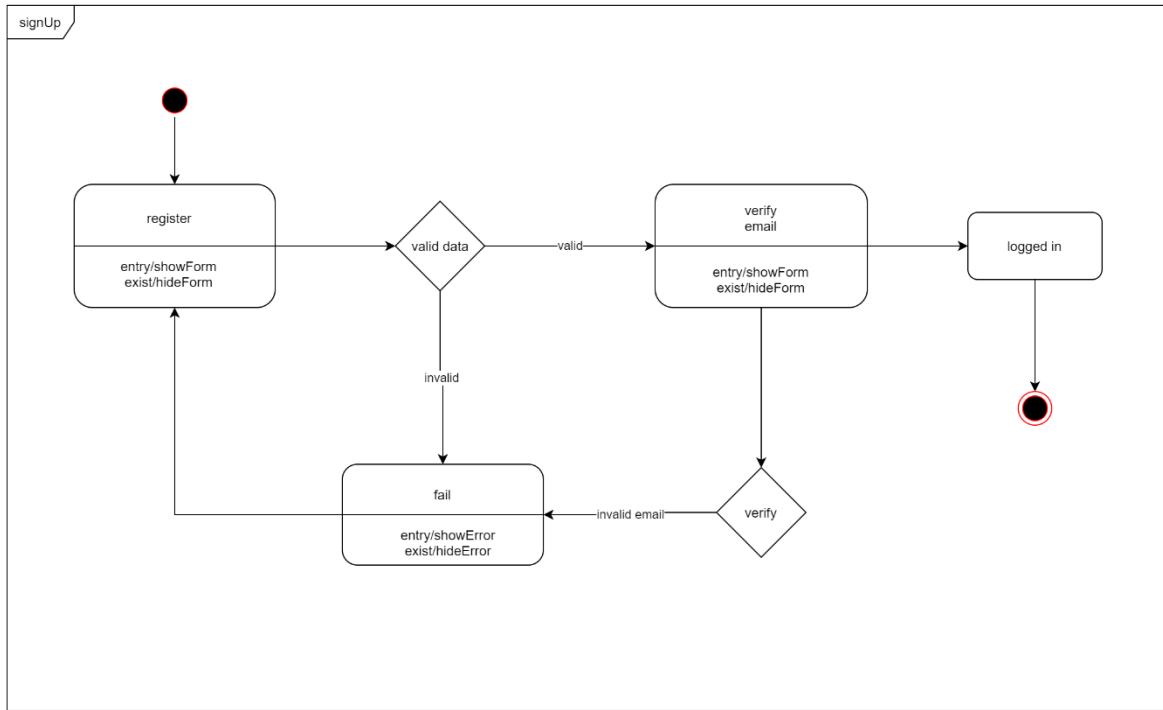


Figure 5.5.2 Sign up

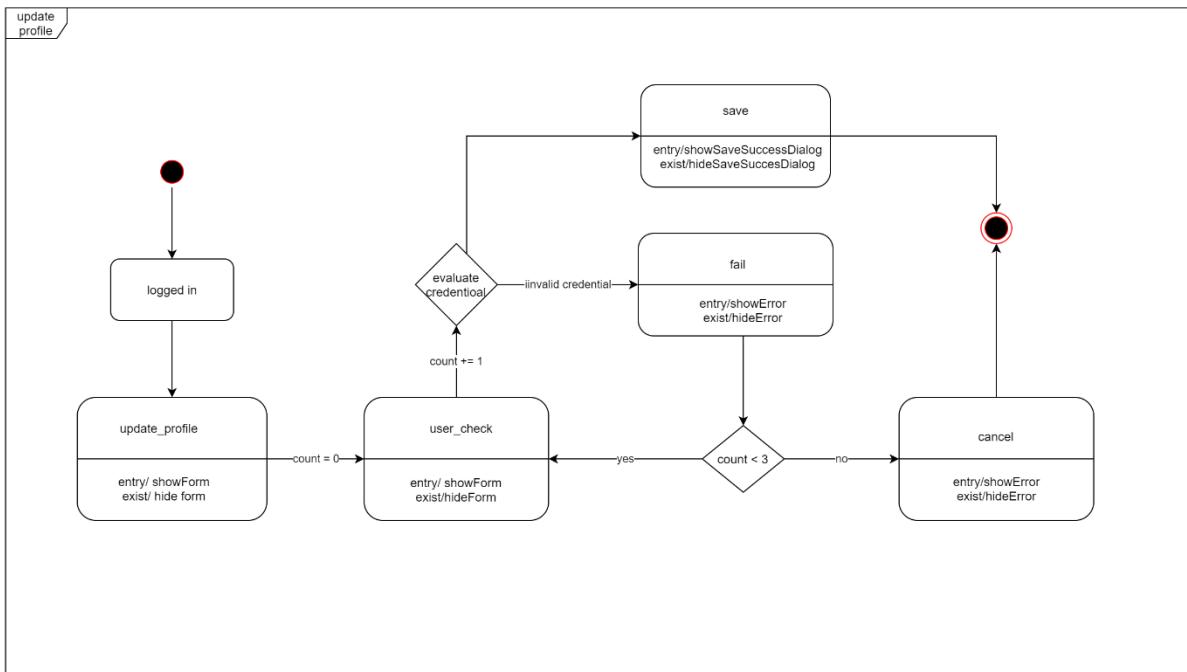


Figure 5.5.3 Update Profile

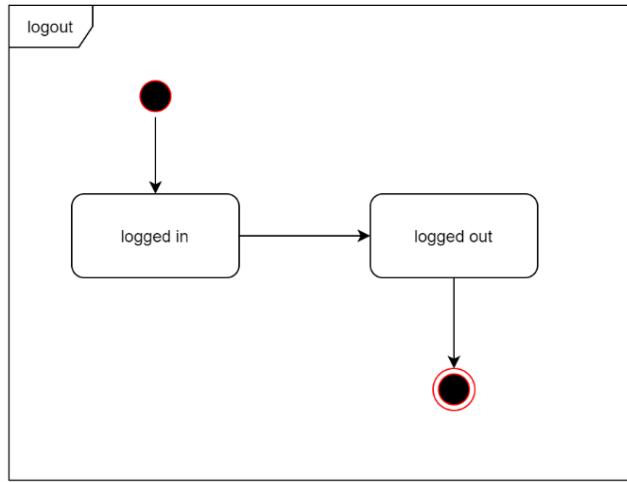


Figure 5.5.4 Logout

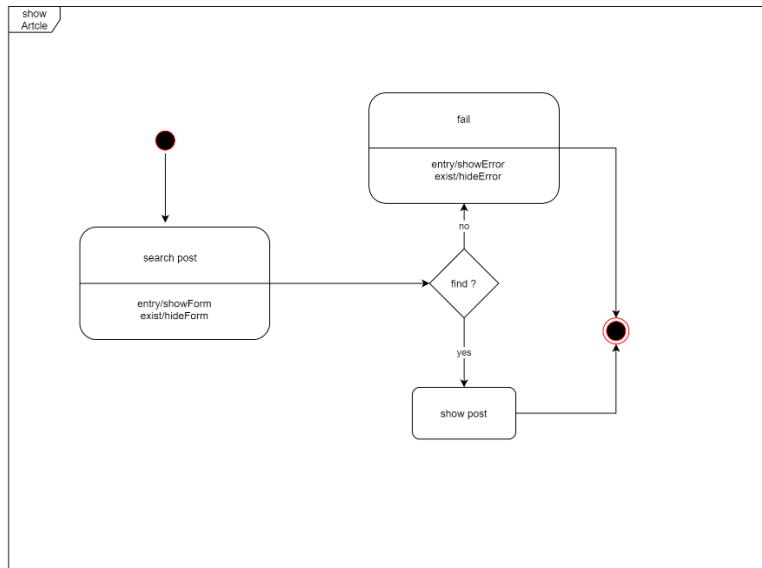


Figure 5.5.5 View Article

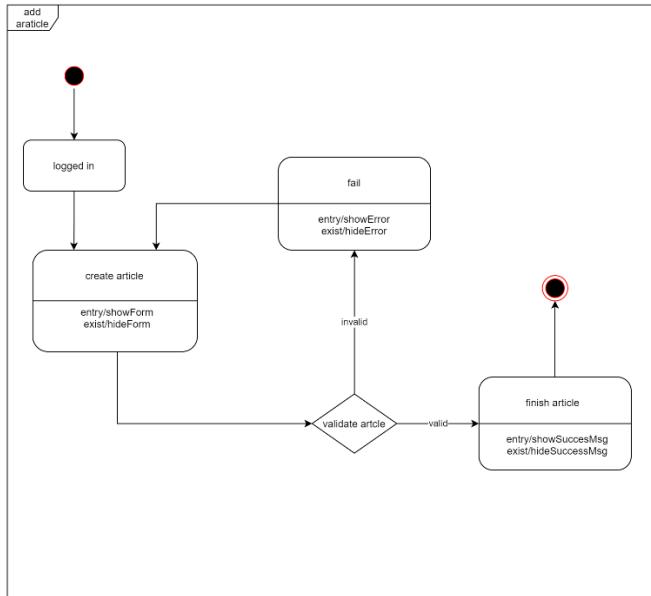


Figure 5.5.6 Add Article

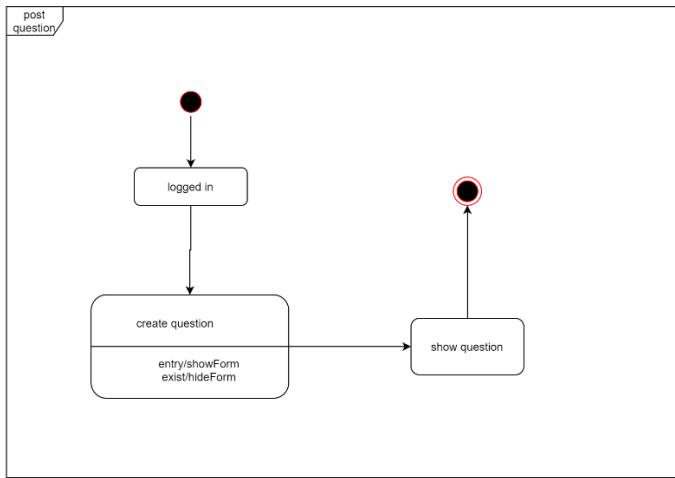


Figure 5.5.7 Post Question

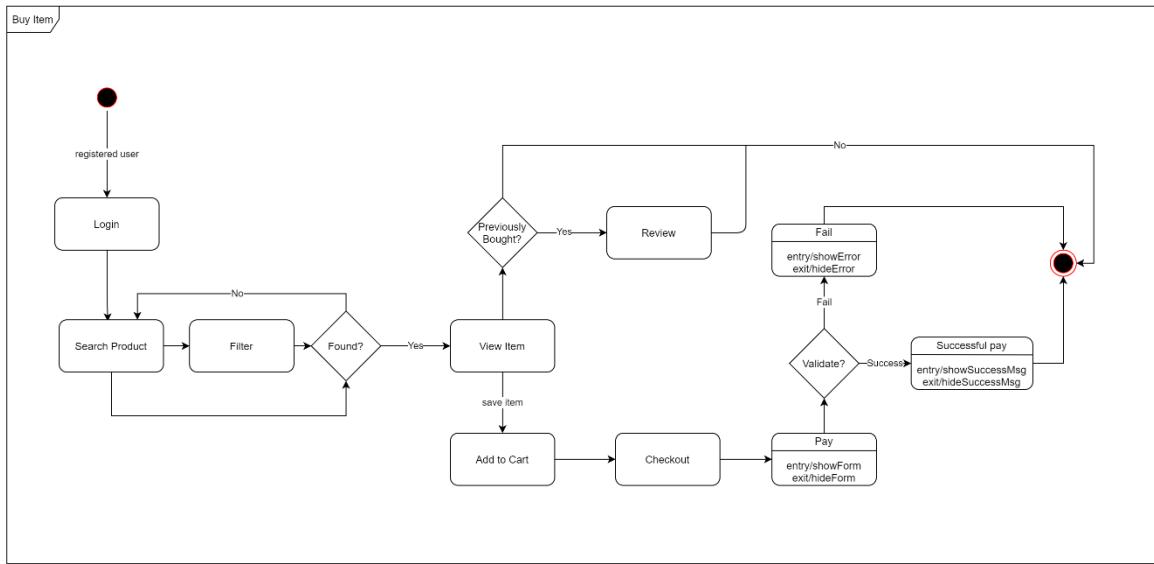


Figure 5.5.8 Buy Item

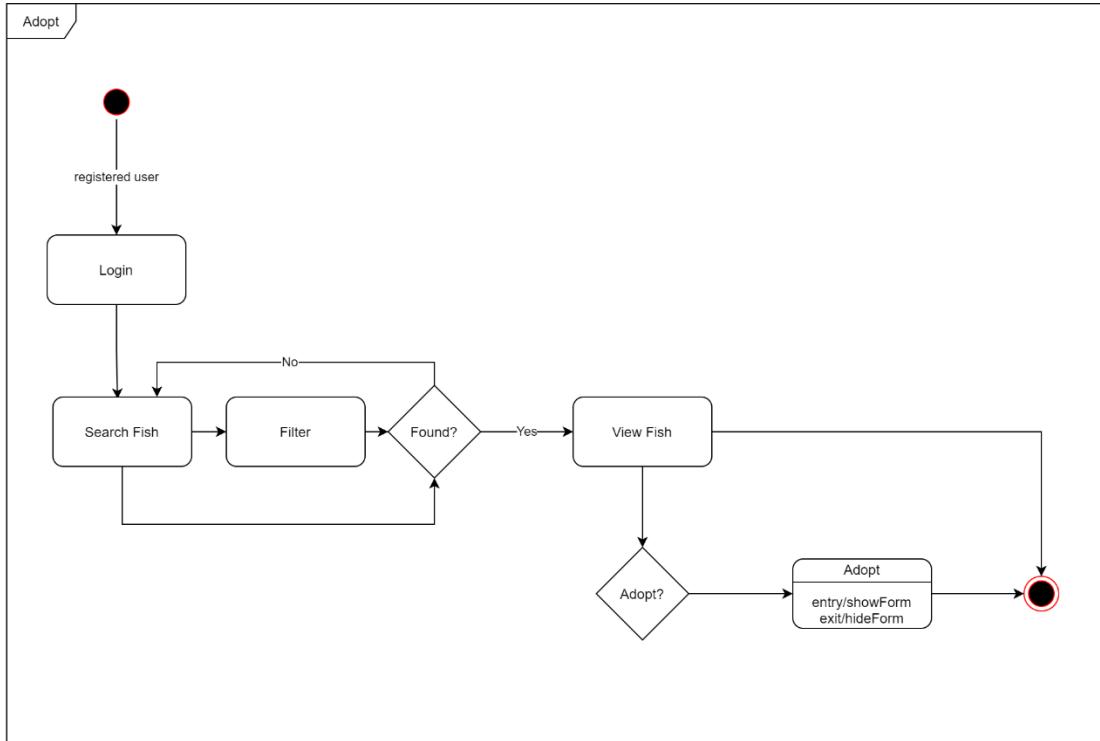


Figure 5.5.9 Adopt

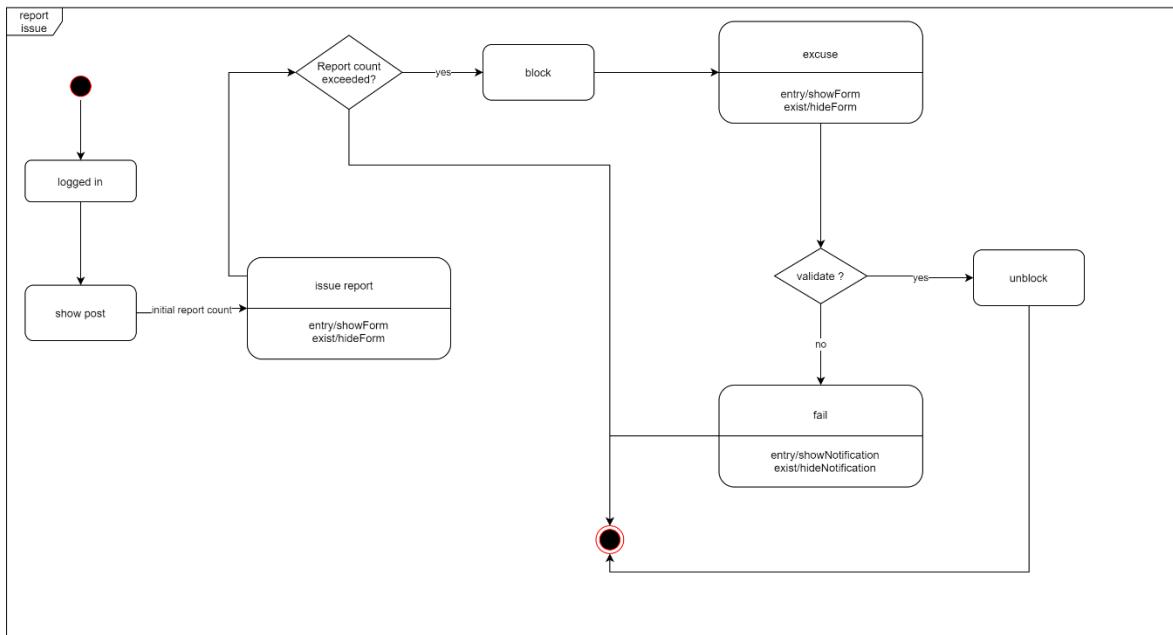


Figure 5.5.10 Report Issue

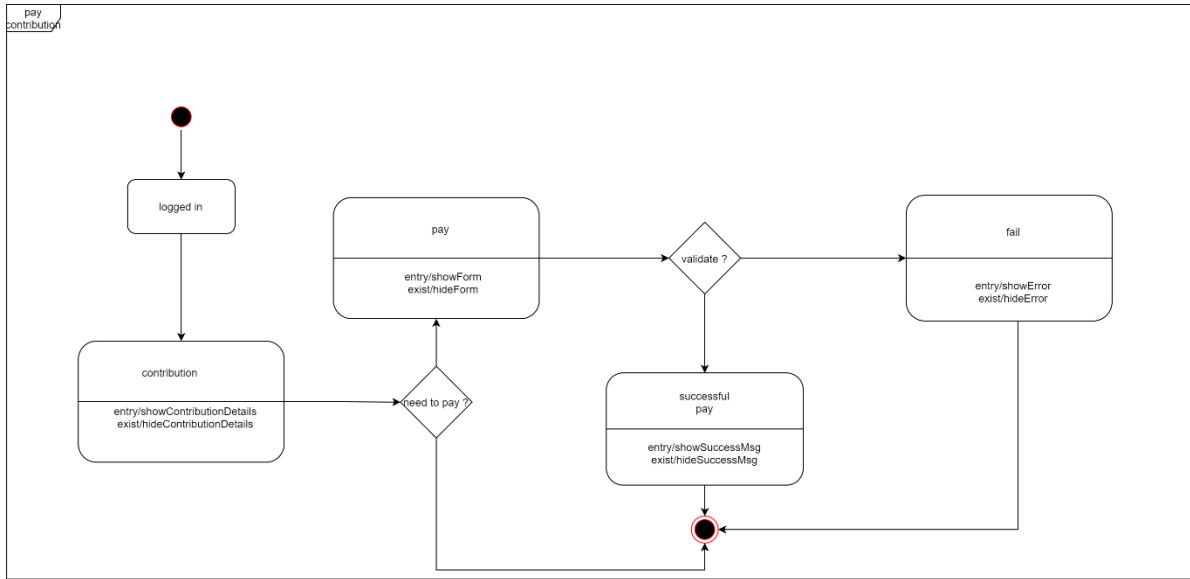


Figure 5.5.11 Pay Contribution

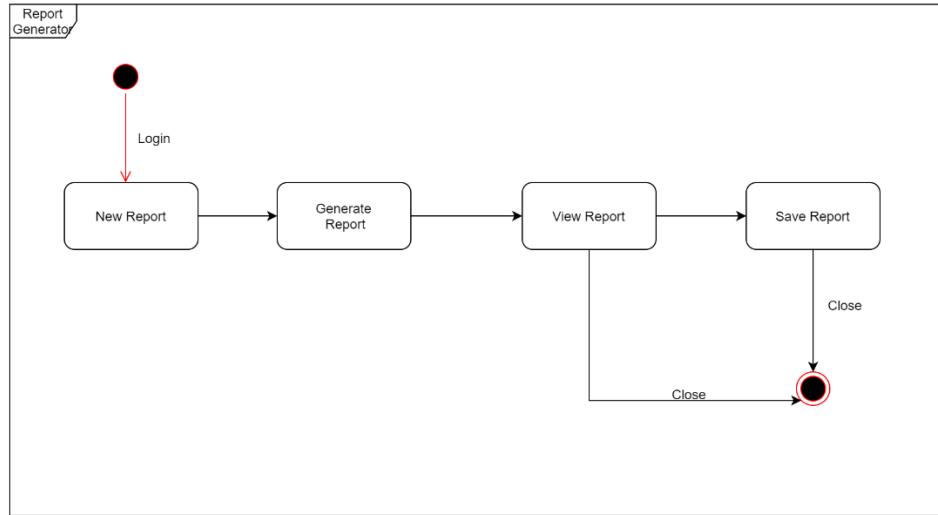


Figure 5.5.12 Report Generation

## 6. User Interface

### 6.1 User Interface Flow Diagrams

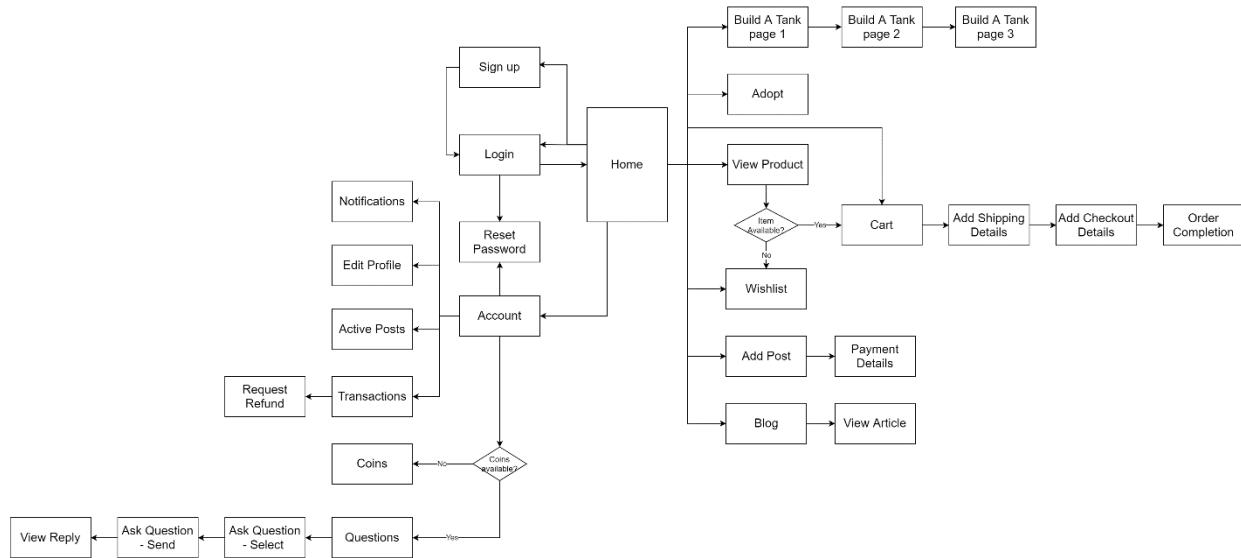


Figure 6.1.1 Flow Diagram for Registered User

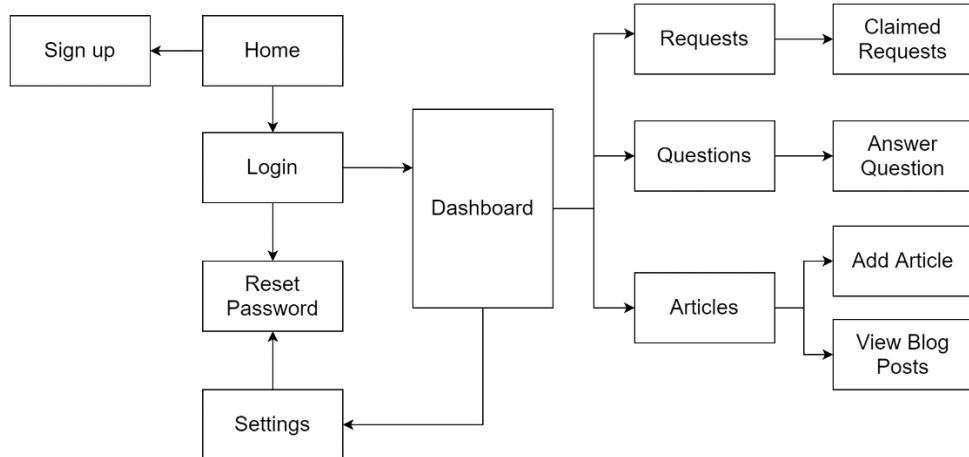


Figure 6.1.2 Flow Diagram for Verified Expert

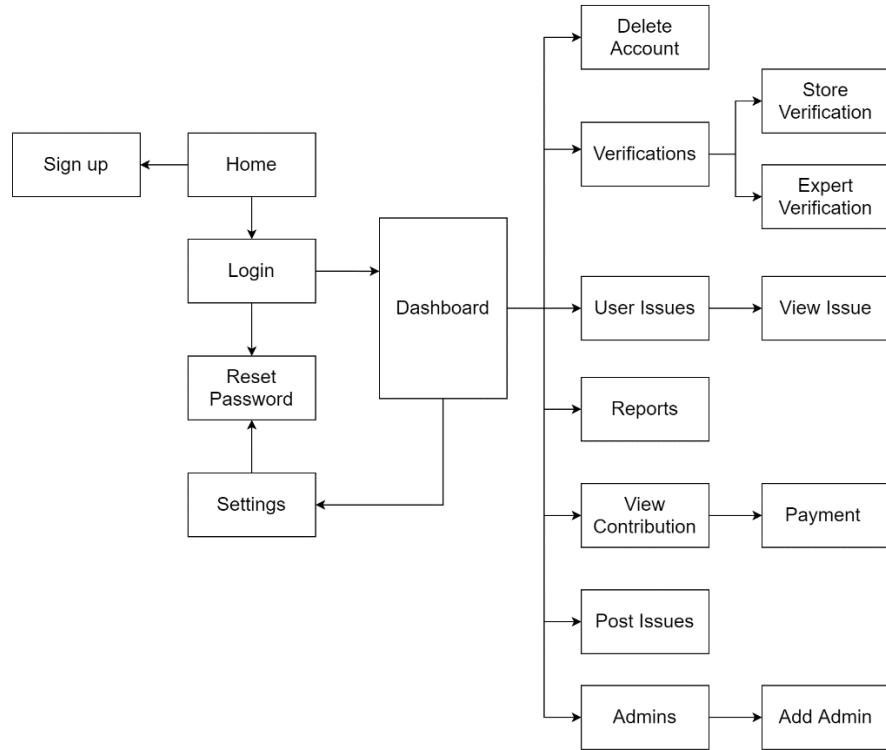


Figure 6.1.3 Flow Diagram for Admin

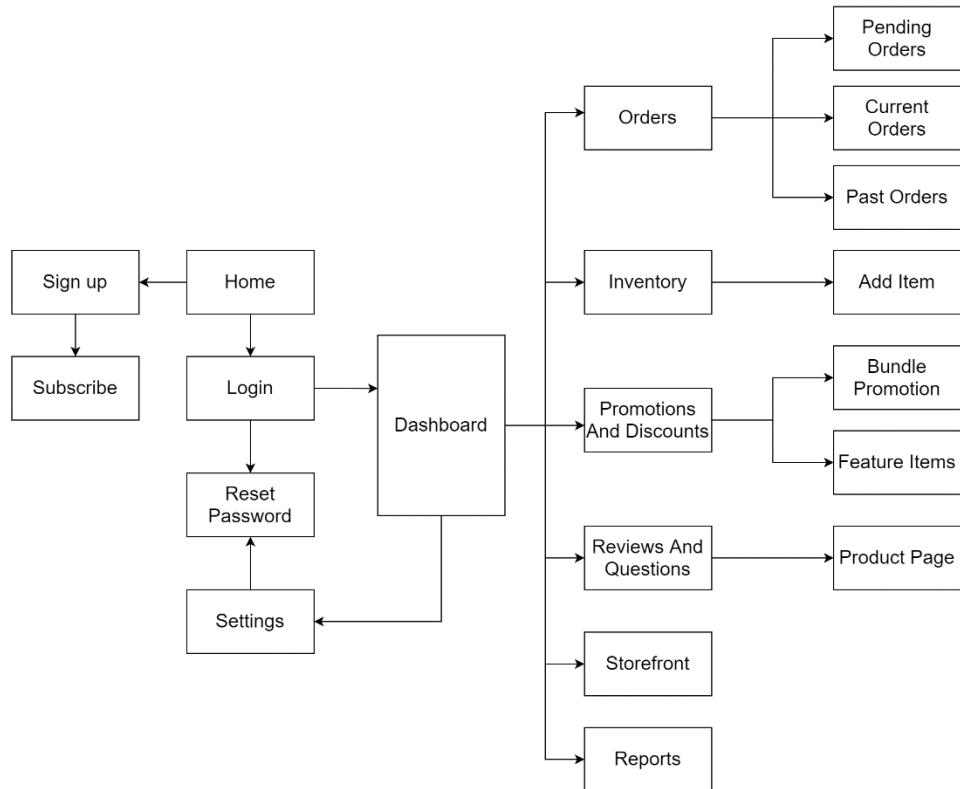
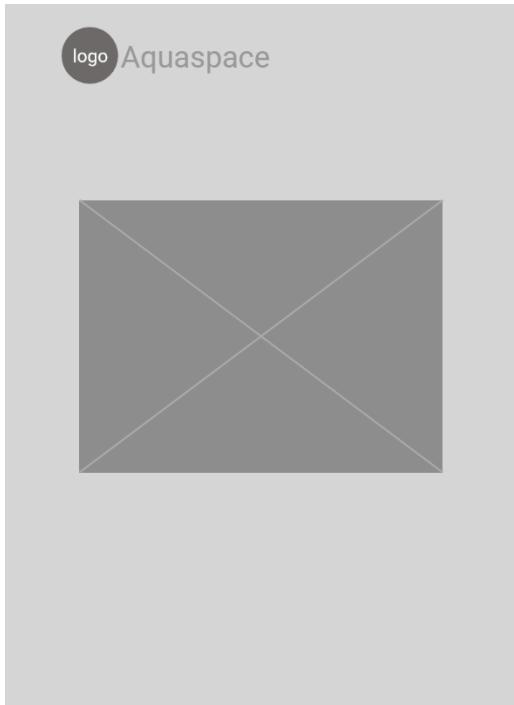


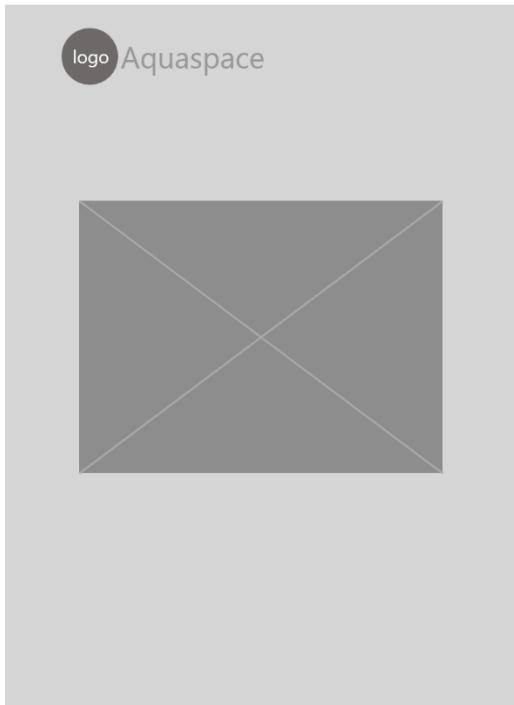
Figure 6.1.4 Flow diagram for Store

## 6.2 Wireframes



The wireframe shows the login interface. On the left, there is a placeholder for the Aquaspace logo and the word "Aquaspace". To the right, the text "Welcome Back!" is displayed above a form area. The form includes fields for "Email" (with the placeholder "example@gmail.com") and "Password" (with the placeholder "abcdef@123"). Below these fields are two buttons: a checked checkbox labeled "Remember me" and a link "Forgot password?". At the bottom right is a "Sign in" button.

Figure 6.2.1 Login



The wireframe shows the sign-up interface. On the left, there is a placeholder for the Aquaspace logo and the word "Aquaspace". To the right, the text "Join Today!" is displayed above a form area. The form includes a section for "Account Type" with three radio buttons: "Regular Account" (selected), "Store Account", and "Verified Expert". Below this are fields for "First Name", "Last Name", "Address Line 1", "Address Line 2", "City", "Country", "Email", "Password", and "Confirm Password", each represented by a text input field. At the bottom left is a checkbox labeled "I agree to all the terms and conditions". At the bottom right are links for "already have an account? sign up" and a "Sign up" button.

Figure 6.2.2 Sign Up



**Aquaspace**

**Join Today!**

Account Type  Regular Account  Store Account  Verified Expert

First Name

Last Name

City

Country

Email

Qualifications

\*Upload a pdf document with your qualifications

Password

Confirm Password

I agree to all the [terms and conditions](#) already have an account? [sign in](#)

Figure 6.2.3 Sign Up - Expert



**Aquaspace**

**Join Today!**

Account Type  Regular Account  Store Account  Verified Expert

Company Name

Registration No.

Telephone No

Store Address

Manager's Name

Managers NIC

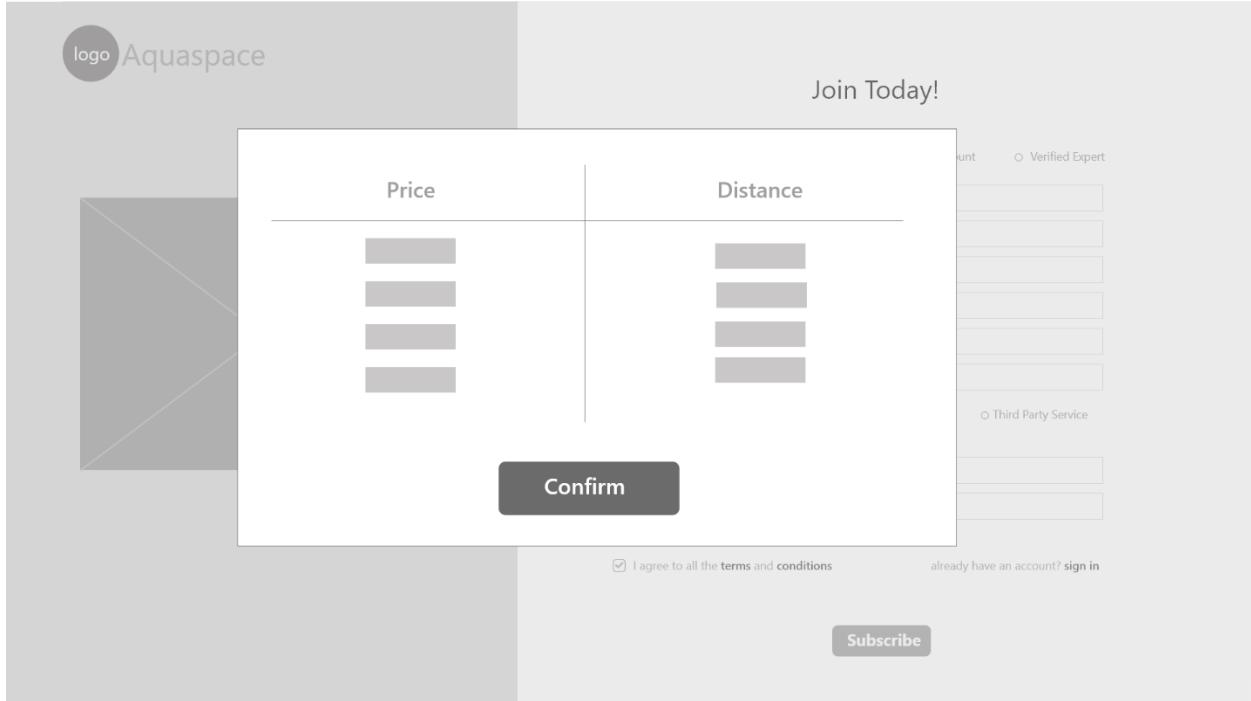
Modes of Delivery  In-Store Pick Up  Third Party Service  
 In House Delivery Service

Password

Confirm Password

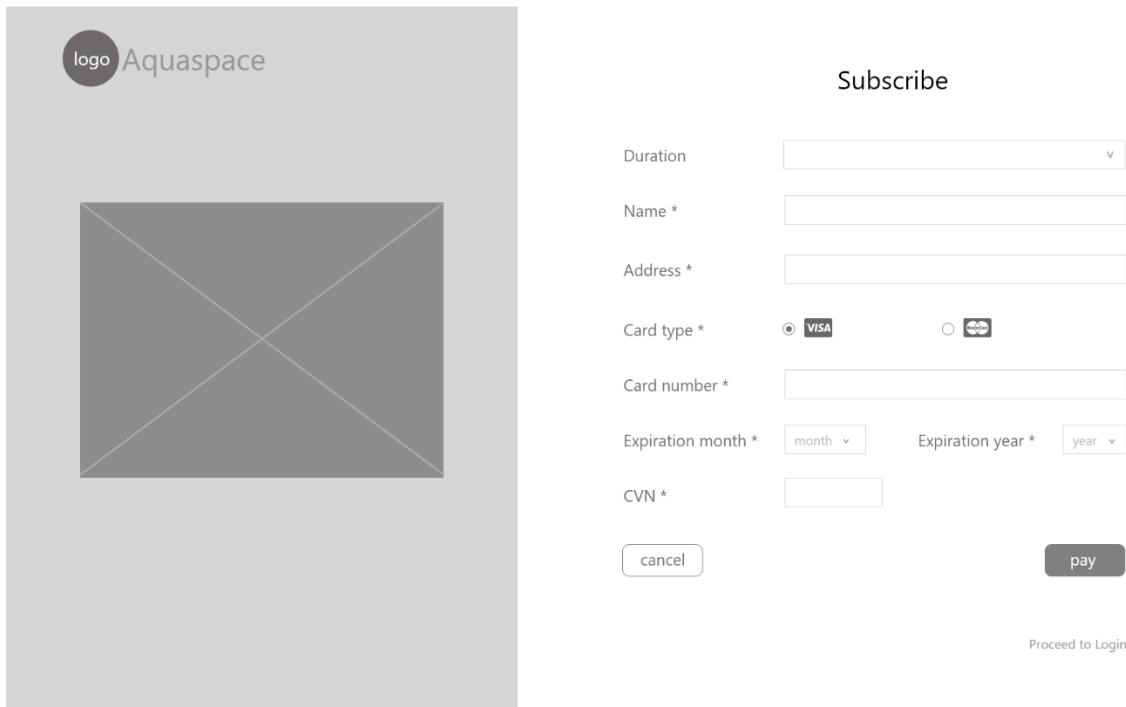
I agree to all the [terms and conditions](#) already have an account? [sign in](#)

Figure 6.2.4 Sign Up – Store



The screenshot shows the Aquaspace sign-up interface. At the top left is the Aquaspace logo. To the right is a large button labeled "Join Today!". Below the logo is a placeholder image of a swimming pool. In the center is a white rectangular input field containing a grid-based pricing chart. The grid has two columns: "Price" and "Distance", each with four rows of gray bars. Below the grid is a dark blue "Confirm" button. To the right of the input field are several checkboxes for account type: "I agree to all the terms and conditions" (with a checked checkbox), "already have an account? sign in", and three other options: "Verified Expert" (radio button), "Third Party Service" (radio button), and two empty checkboxes. At the bottom right of the input field is a "Subscribe" button.

Figure 6.2.5 Sign up - Add Pricing Chart



The screenshot shows the Aquaspace subscribe page. On the left is the Aquaspace logo and a placeholder image of a swimming pool. On the right is a "Subscribe" button. Below it is a form for entering payment information. The fields include: "Duration" (dropdown menu), "Name \*" (text input), "Address \*" (text input), "Card type \*" (radio buttons for VISA and Mastercard), "Card number \*" (text input), "Expiration month \*" (dropdown menu), "Expiration year \*" (dropdown menu), "CVN \*" (text input), "cancel" (button), and "pay" (button). At the bottom right is a link "Proceed to Login".

Figure 6.2.6 Subscribe



### 6.2.1 Registered User

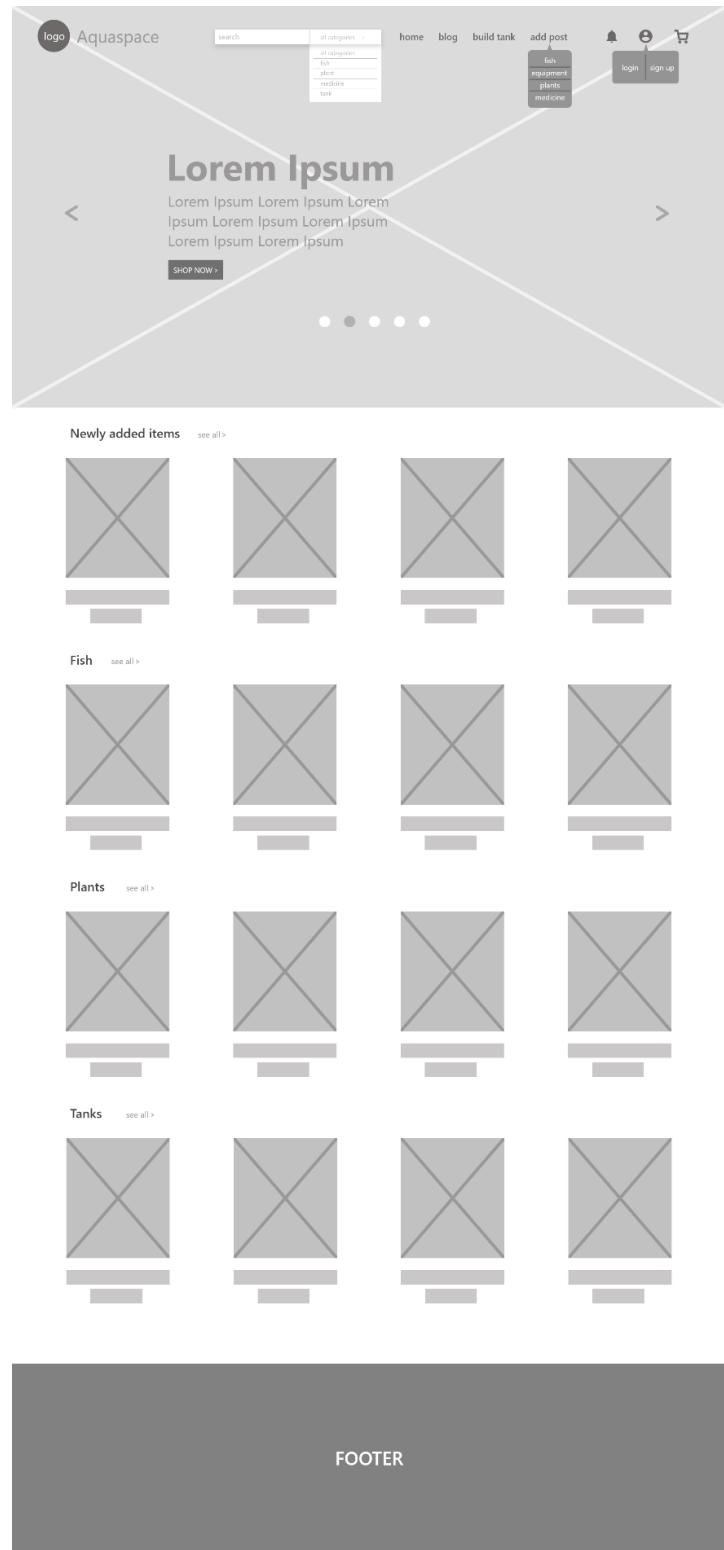


Figure 6.2.7 Home

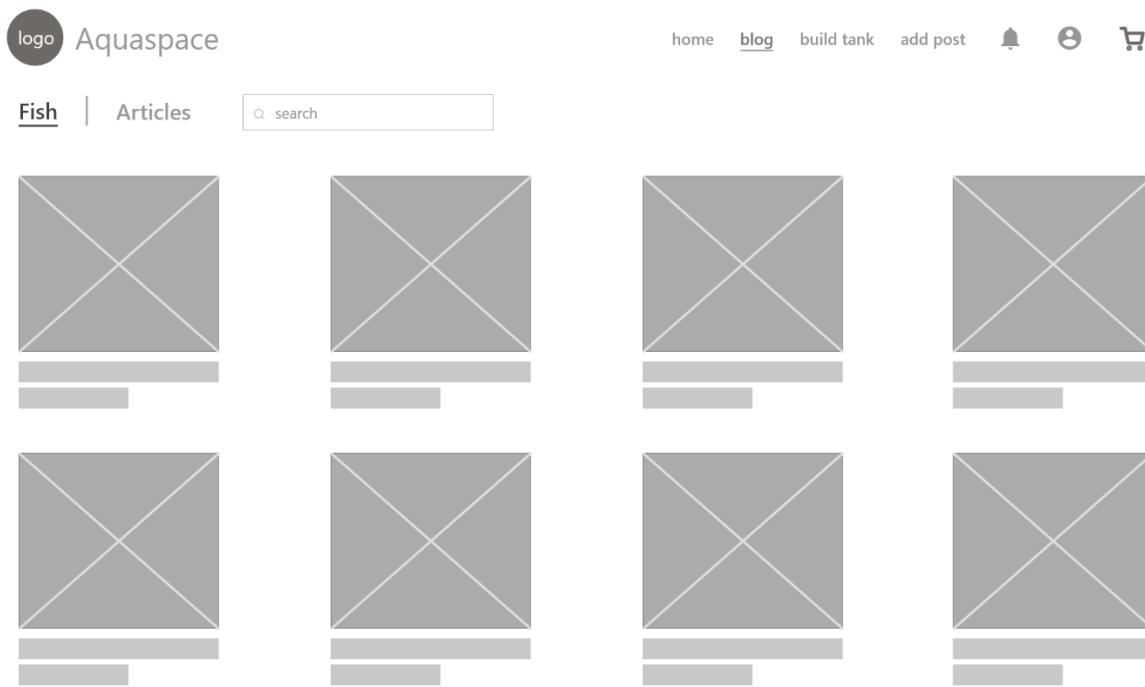


Figure 6.2.8 Blog - Care Instructions

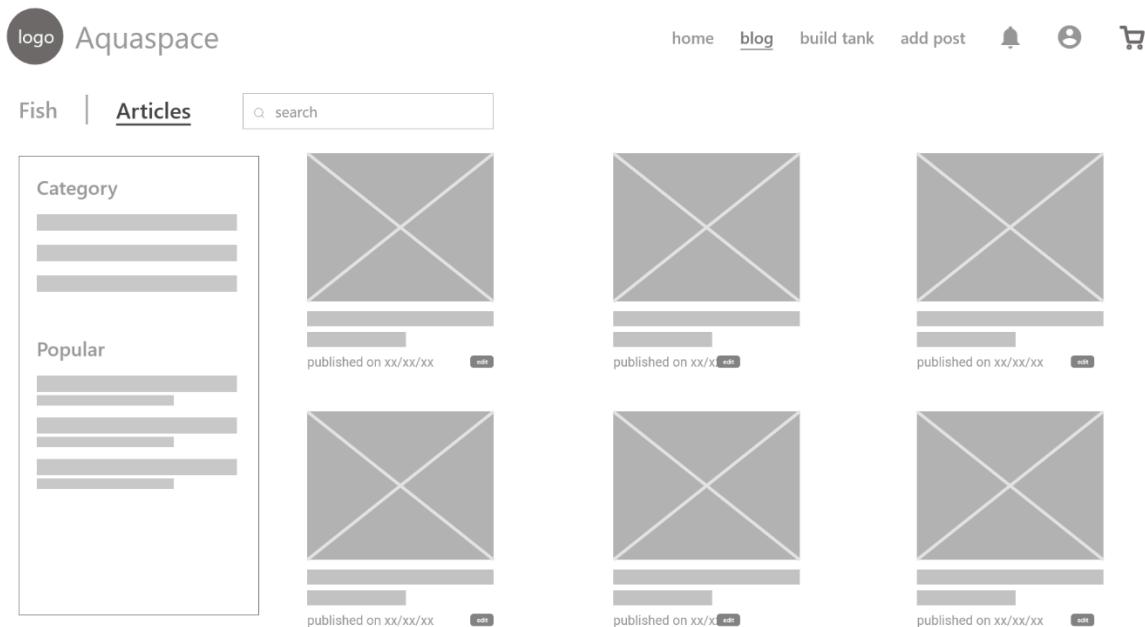


Figure 6.2.9 Blog – Articles

## AQUASPACE | SRS

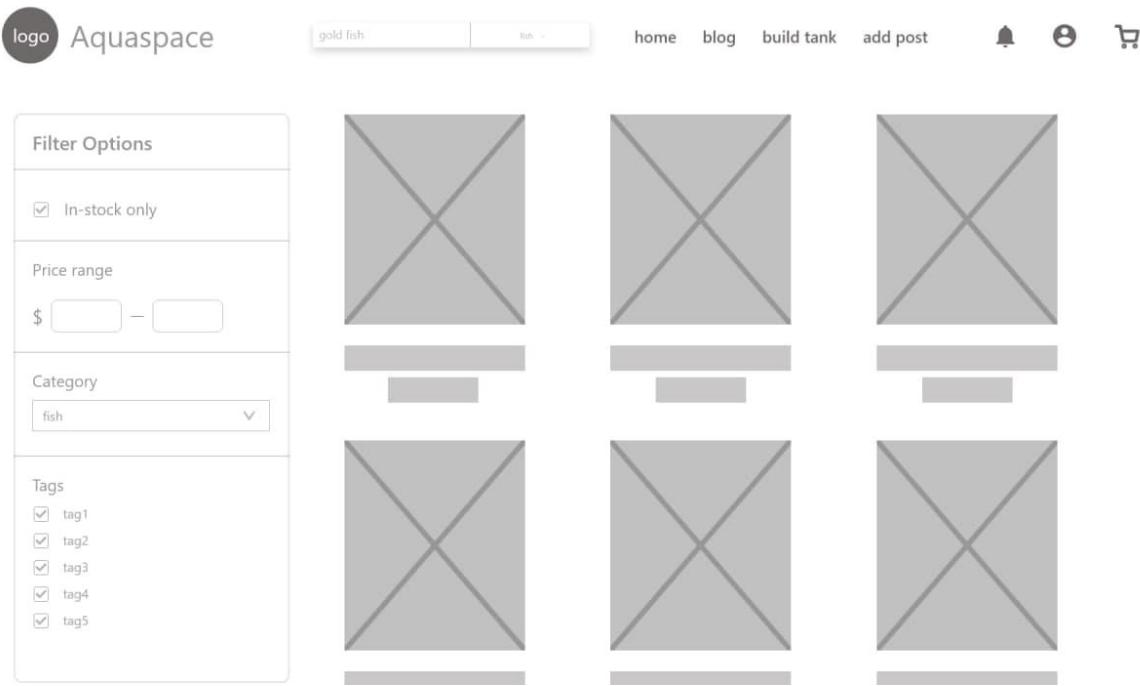


Figure 6.2.10 Category Page

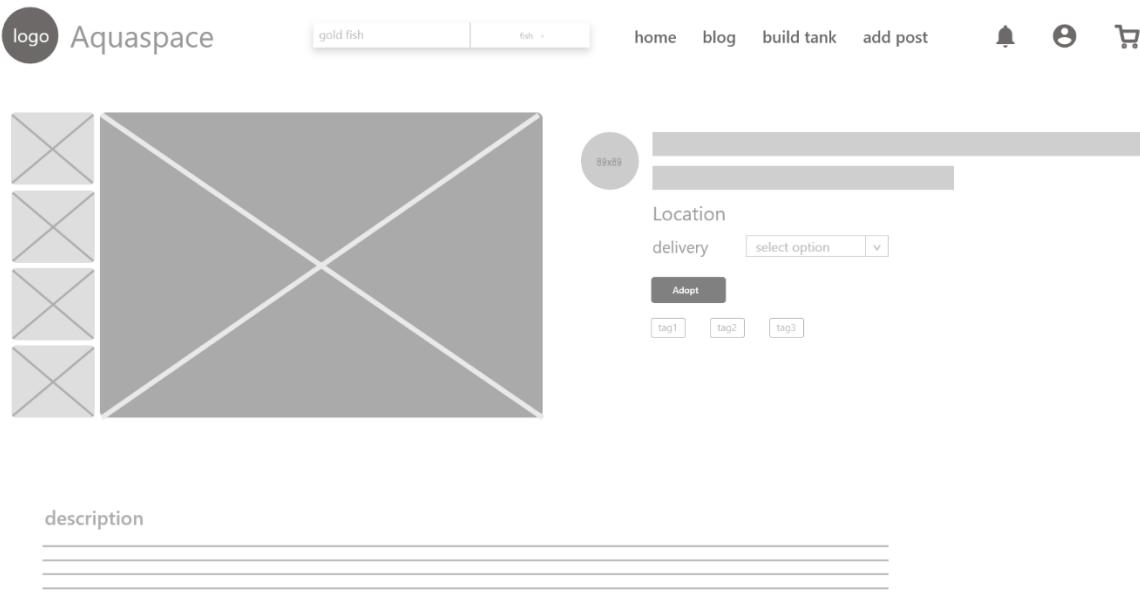


Figure 6.2.11 Adopt

gold fish

home blog build tank add post

Send Inquiry

Select Items that you can provide

ITEM TYPE     ITEM TYPE     ITEM TYPE

ITEM TYPE     ITEM TYPE     ITEM TYPE

ITEM TYPE

89x89

Location

Next

Figure 6.2.12 Adopt - Send Inquiry 1

gold fish

home blog build tank add post

Send Inquiry

Location

Pick Up locations

Date for pick up

Other

89x89

Location

Inquire

Figure 6.2.13 Adopt - Send Inquiry 2

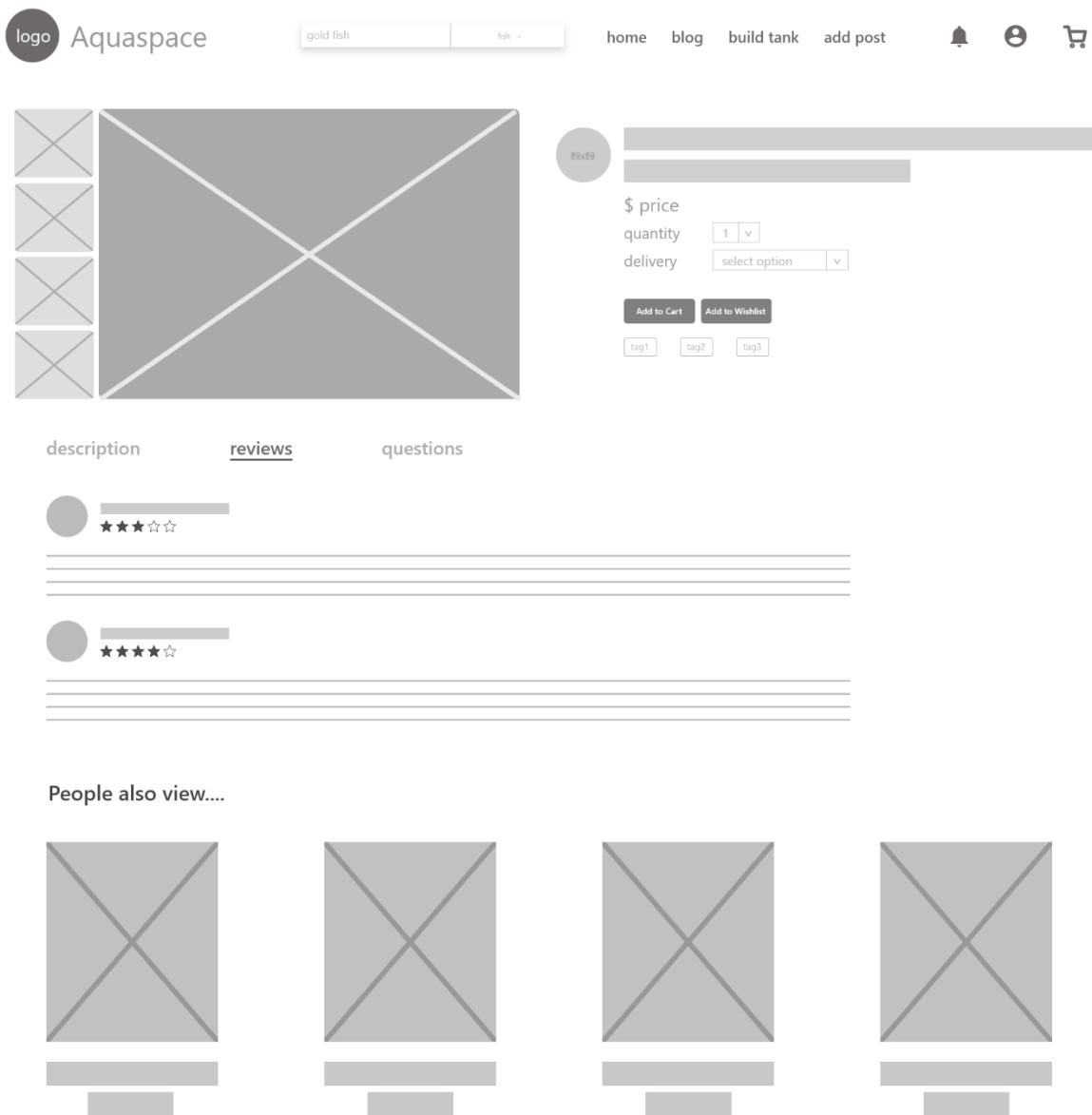


Figure 6.2.14 Product Page

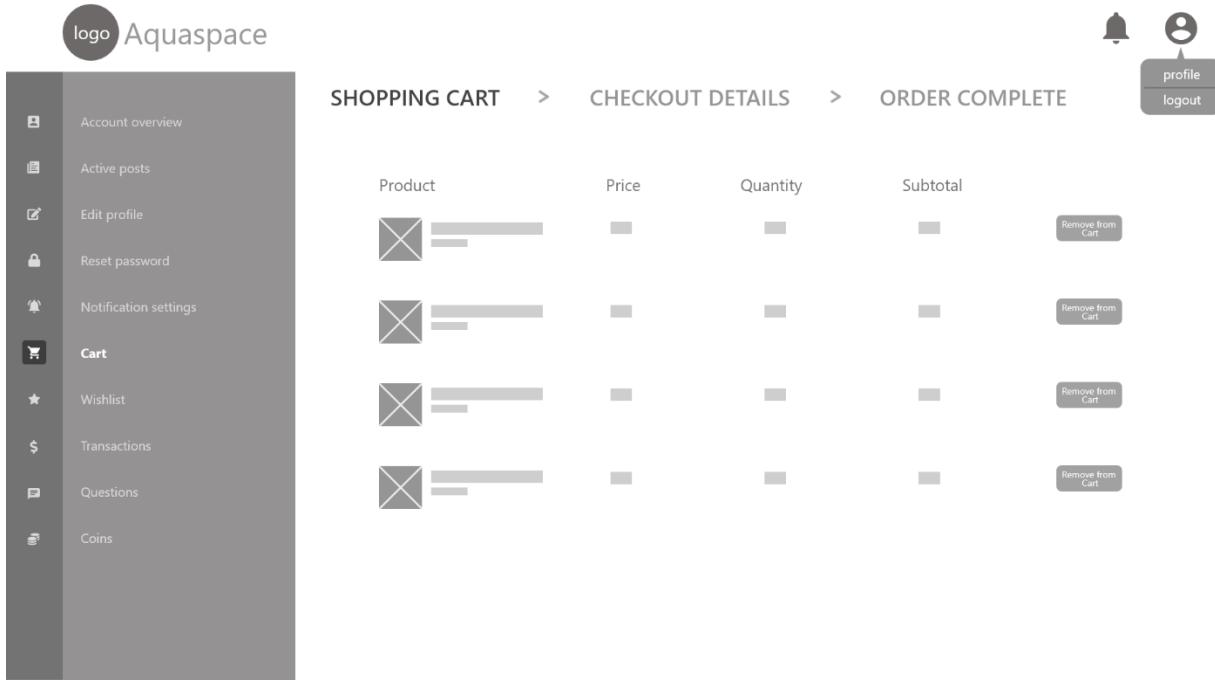


Figure 6.2.15 Cart

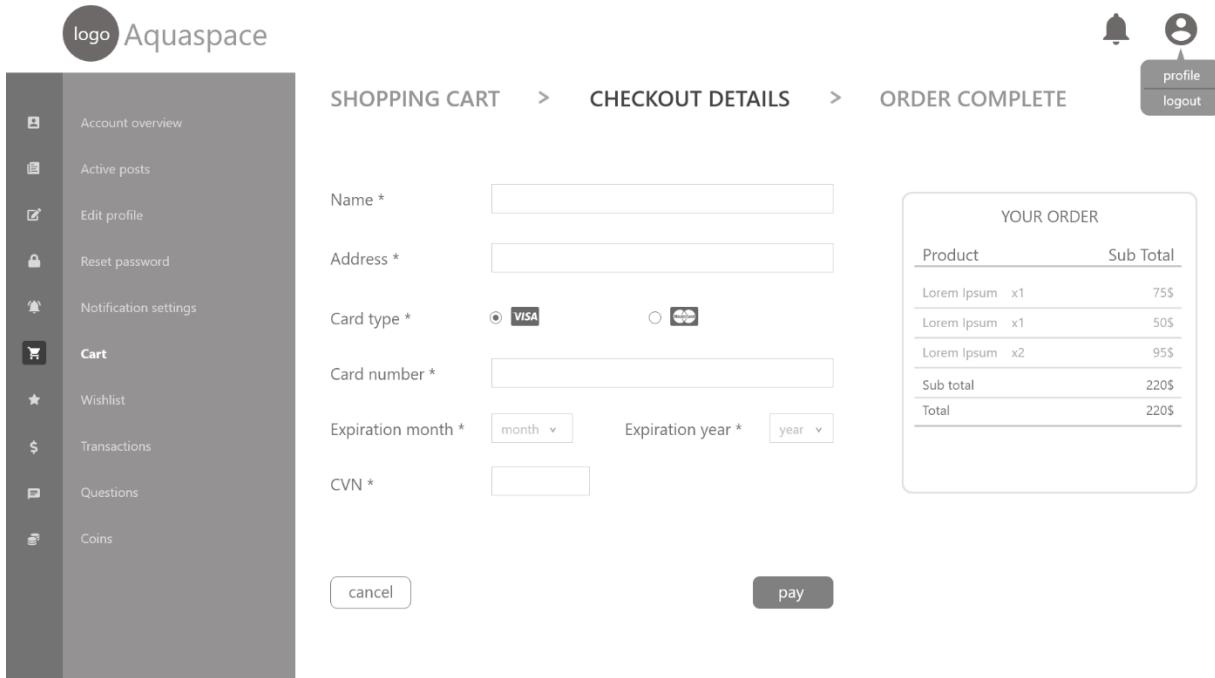


Figure 6.2.16 Checkout Details

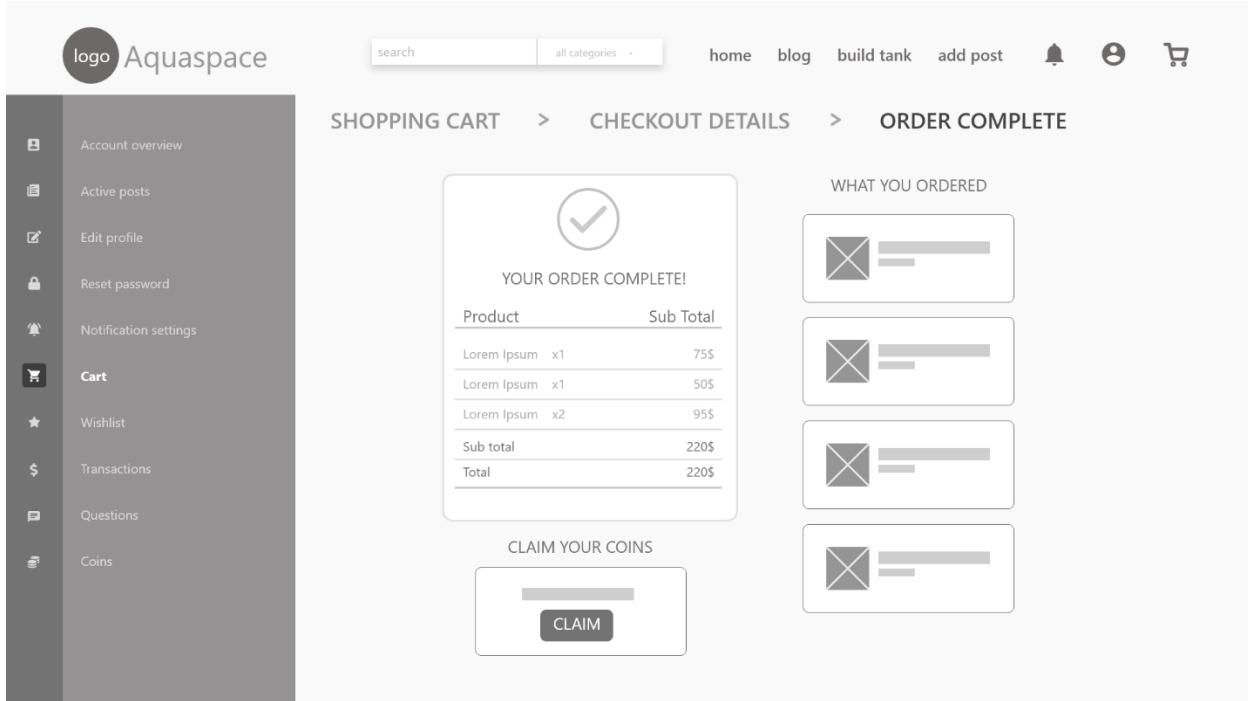


Figure 6.2.17 Order Complete

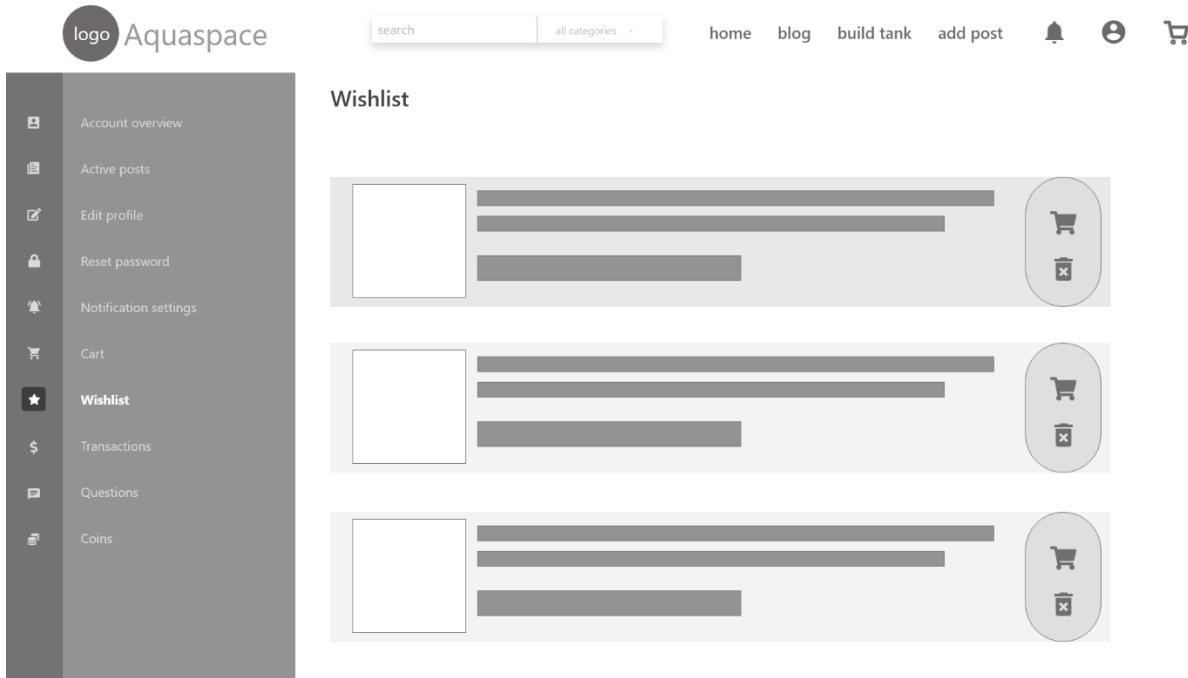


Figure 6.2.18 Wishlist

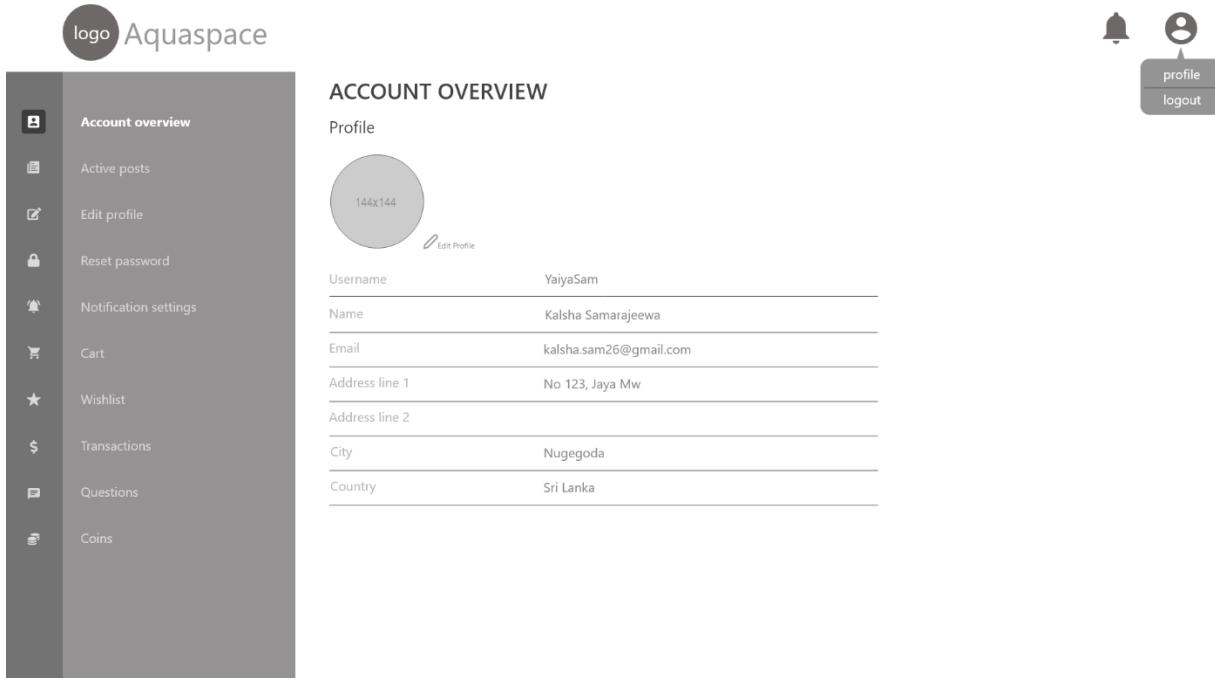


Figure 6.2.19 Account

The screenshot shows the 'Transactions' section of the Aquaspace application. At the top, there is a navigation bar with a search bar ('search all categories'), and links for 'home', 'blog', 'build tank', 'add post', and user icons. The sidebar on the left is identical to Figure 6.2.19. The main area is titled 'Transactions' and displays a table of four transactions:

No	Order ID	Date	Amount	Status	Action
1					
2					
3					
4					

Figure 6.2.20 Transactions

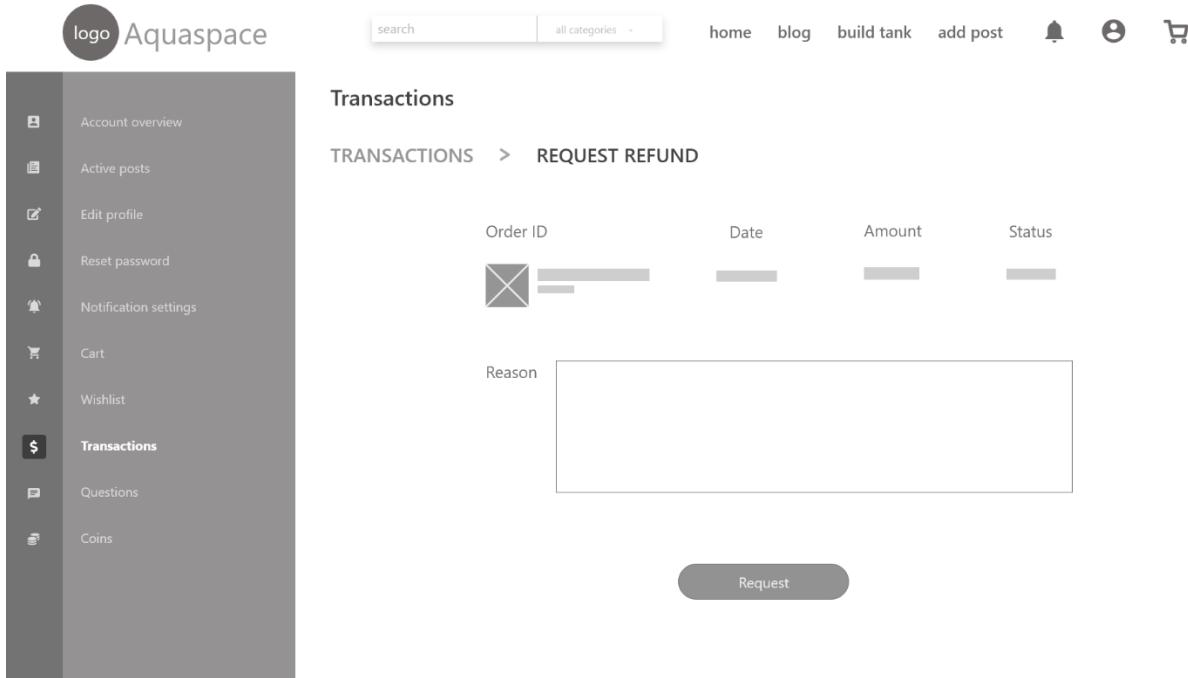


Figure 6.2.21 Request Refund

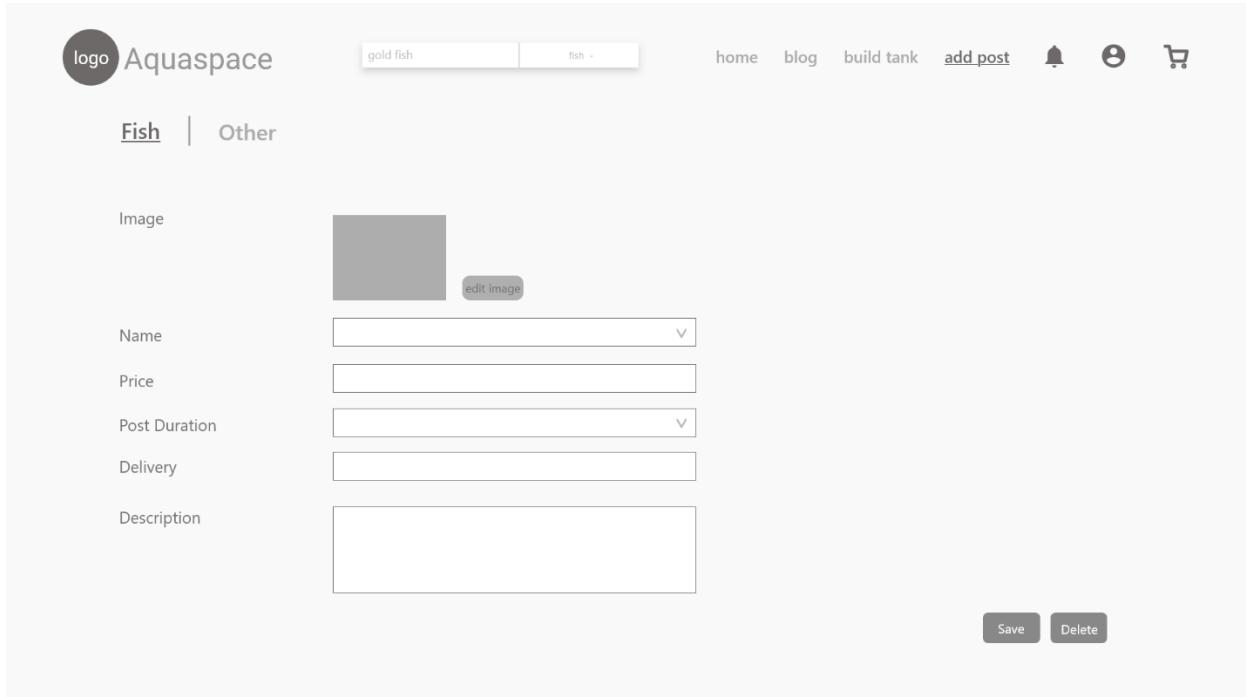


Figure 6.2.22 Add Post - Fish

gold fish fish ▾

home blog build tank add post

Fish | Other

Image

Product Name

Category

Post Duration

Price

Delivery

Description

edit image

Save Delete

Figure 6.2.23 Add Post - Other

Home

Account Overview

Edit profile

Reset password

Notification settings

Articles

Requests

Questions

Contribution

Reset Password

profile

logout

Figure 6.2.24 Reset Password

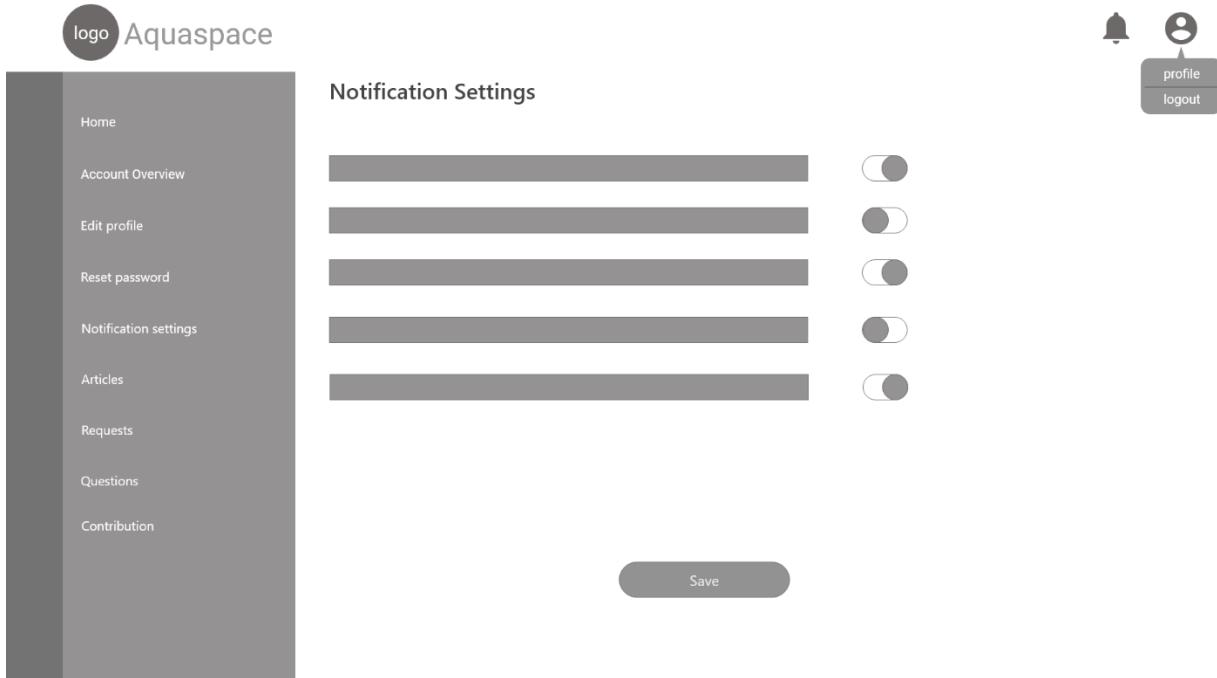


Figure 6.2.25 Notification Settings

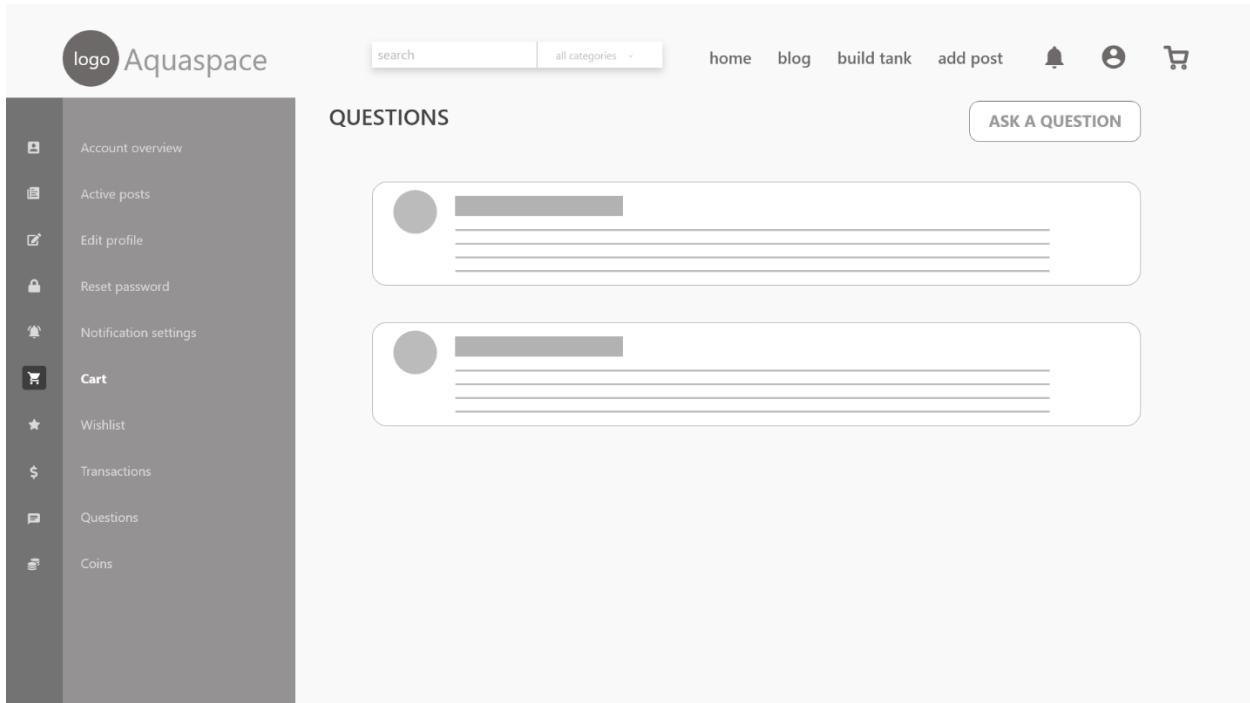


Figure 6.2.26 Questions

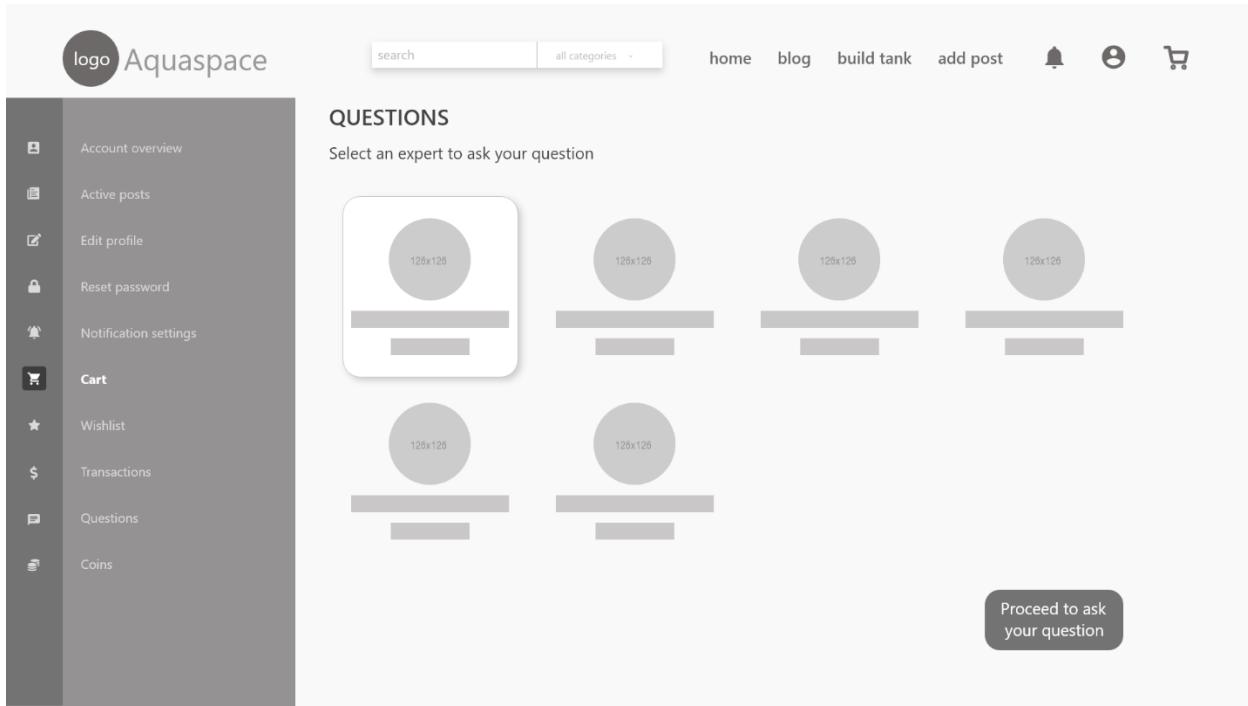


Figure 6.2.27 Ask Questions - Select Expert

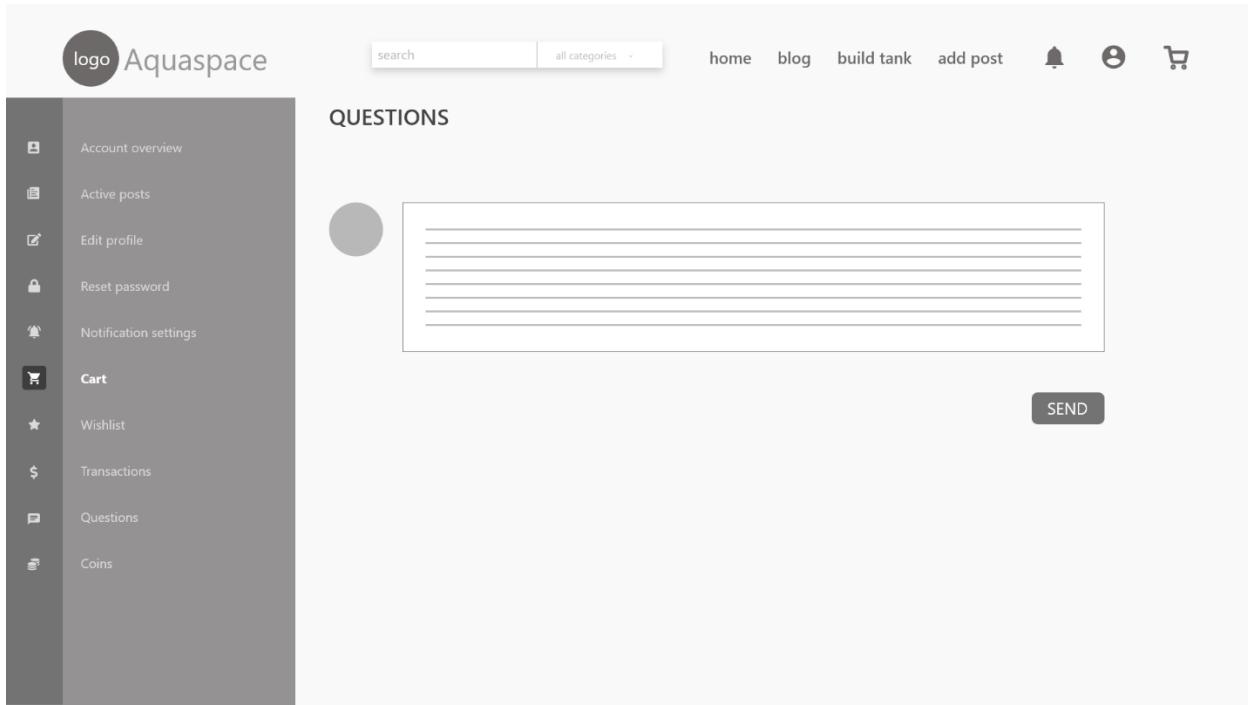


Figure 6.2.28 Ask Question - Send

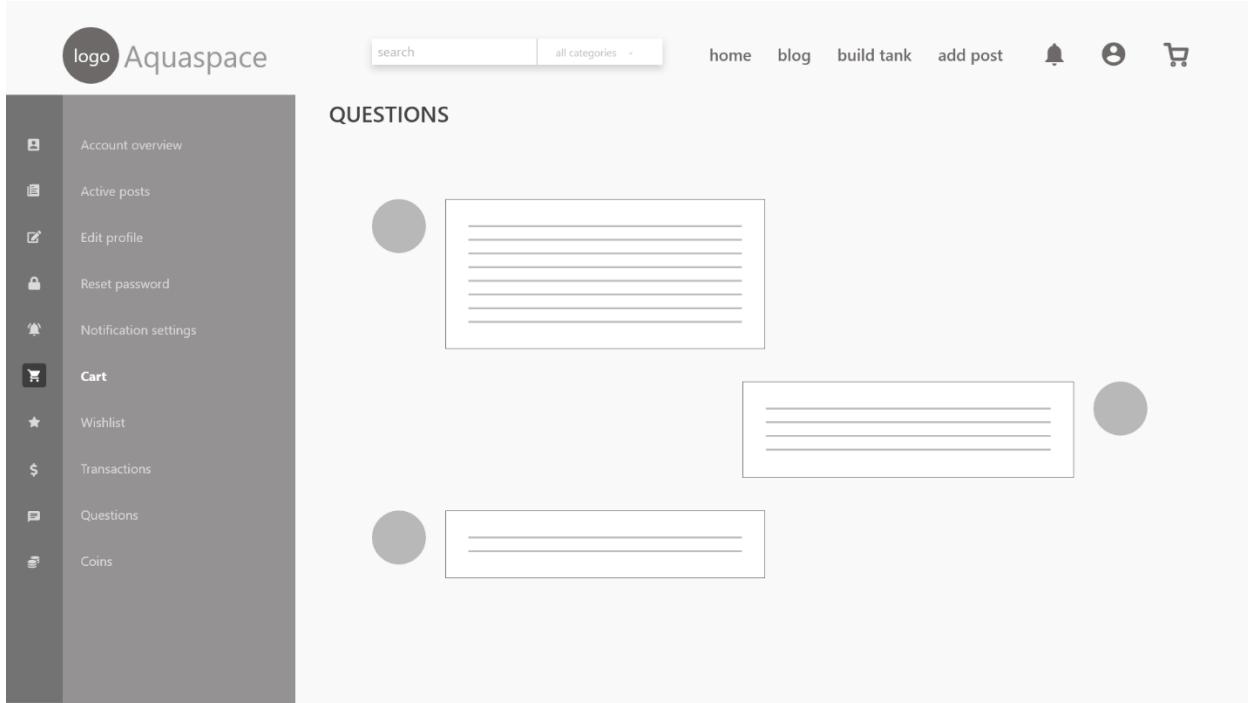


Figure 6.2.29 View Reply

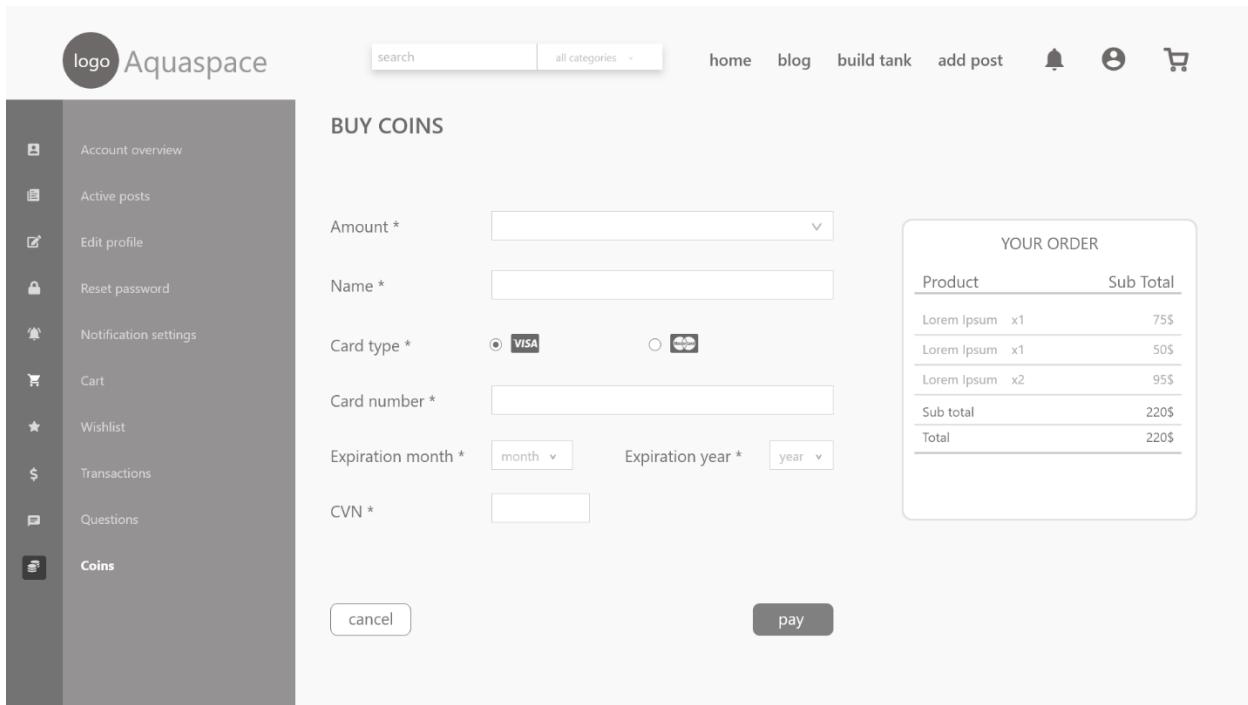


Figure 6.2.30 Coins



PICK A FISH > SELECT ITEMS > VIEW YOUR BUILD

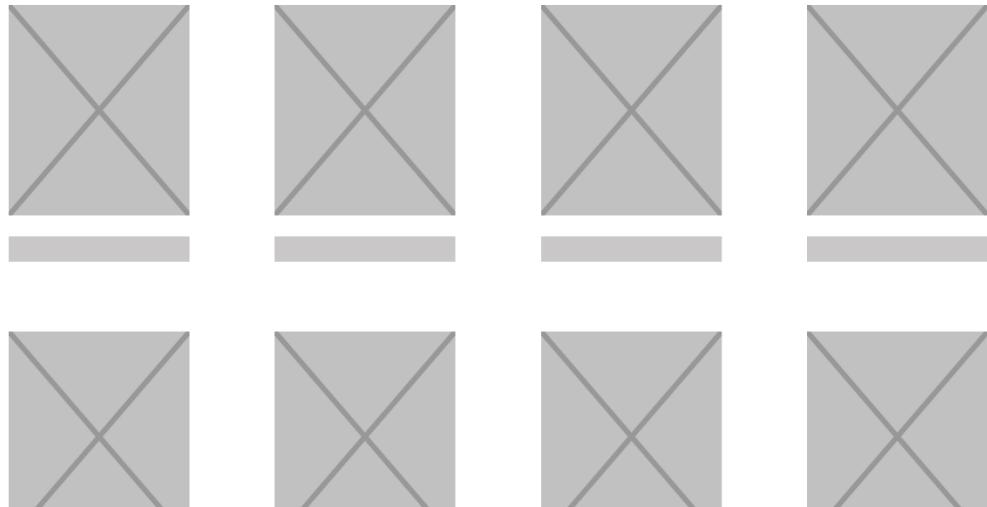


Figure 6.2.31 Build A Tank 1



PICK A FISH > SELECT ITEMS > VIEW YOUR BUILD

Select the item types you want to include in your build

- ITEM TYPE

Include All

Next >

Figure 6.2.32 Build A Tank 2

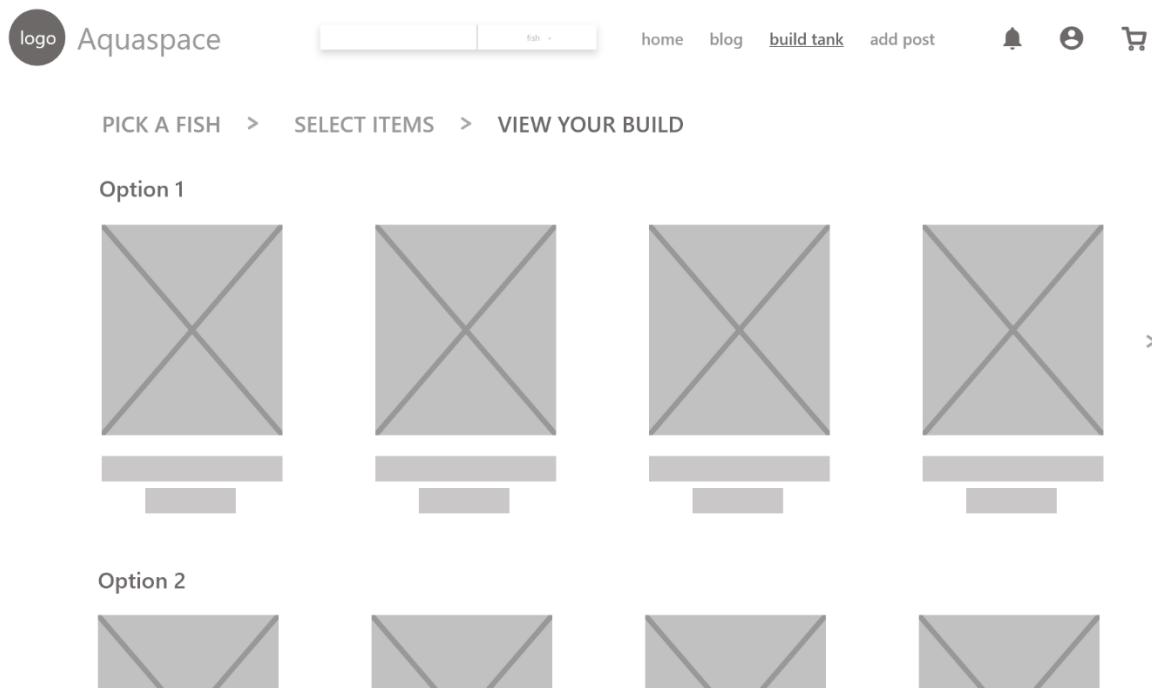


Figure 6.2.33 Build A Tank 3

## 6.2.2 Verified Expert

The wireframe depicts the Expert Dashboard. On the left, a vertical sidebar menu includes Home, Account Overview, Edit profile, Reset password, Notification settings, Articles, Requests, Questions, and Contribution. The main content area is divided into three sections: 'Questions' (with three entries), 'Articles' (with three entries), and 'Requests' (with three entries). Each entry in these lists is represented by a small circular icon and a horizontal bar chart indicating progress or status. At the top right, there is a user profile icon with 'profile' and 'logout' options, and a notification bell icon.

Figure 6.2.34 Expert Dashboard

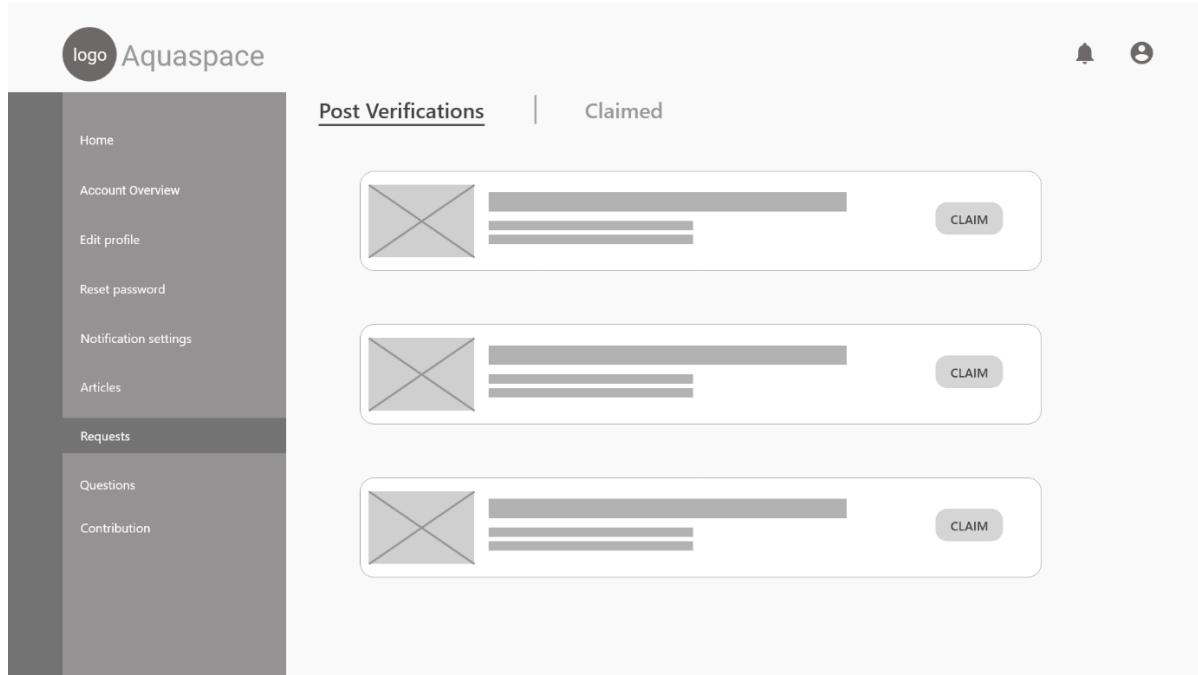


Figure 6.2.35 Expert – Requests

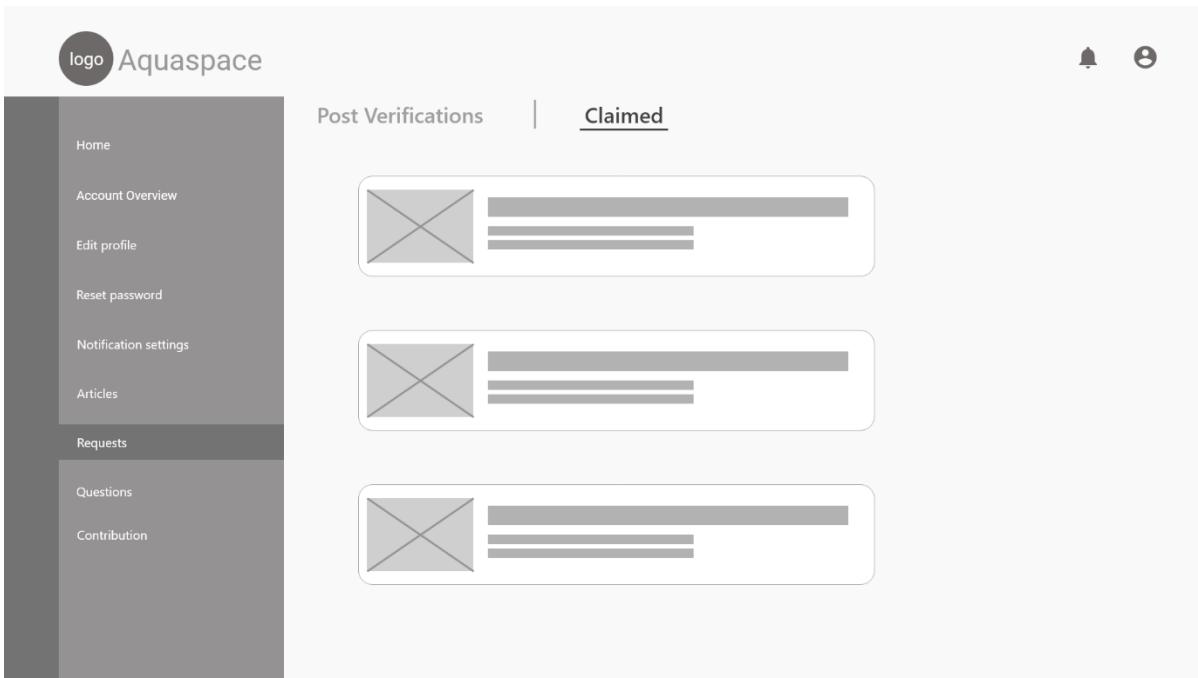


Figure 6.2.36 Expert - Claimed Requests

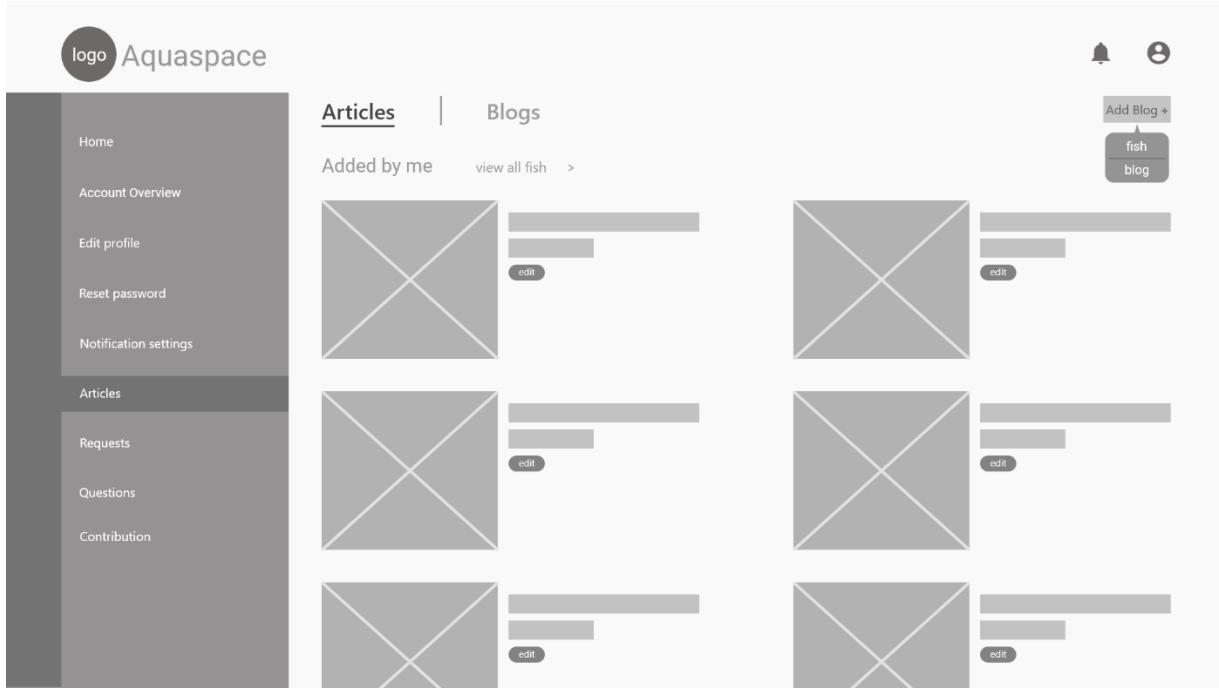


Figure 6.2.37 Articles - Articles

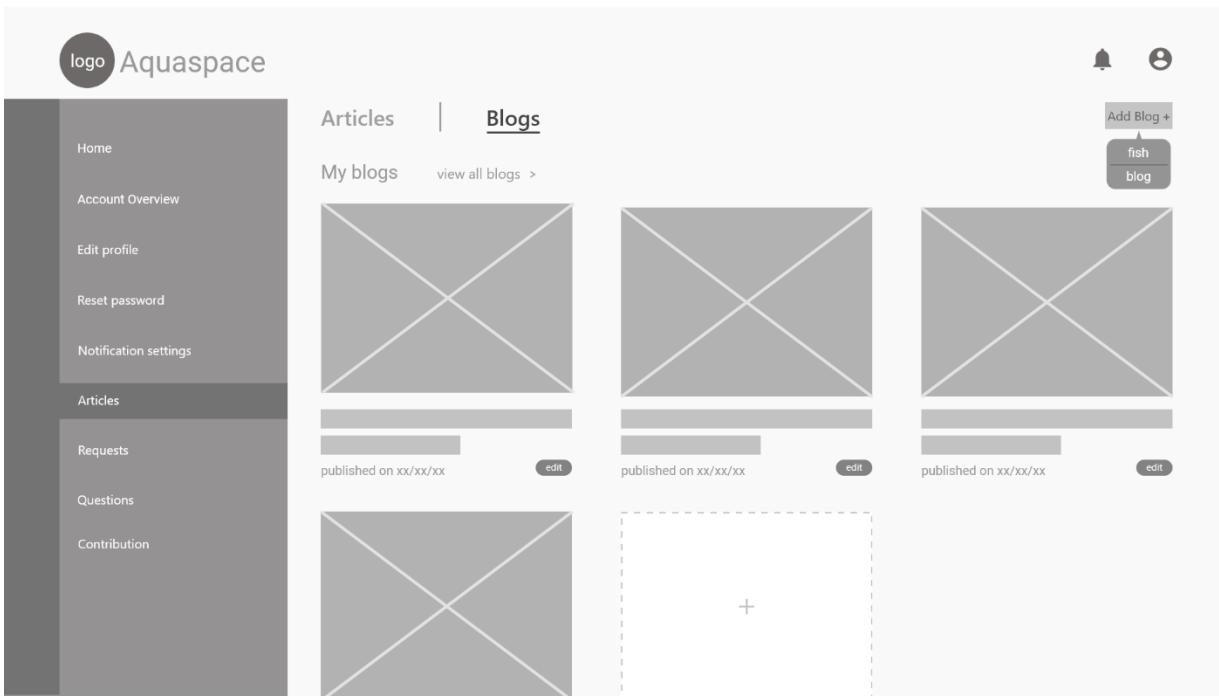


Figure 6.2.38 Articles - Blog

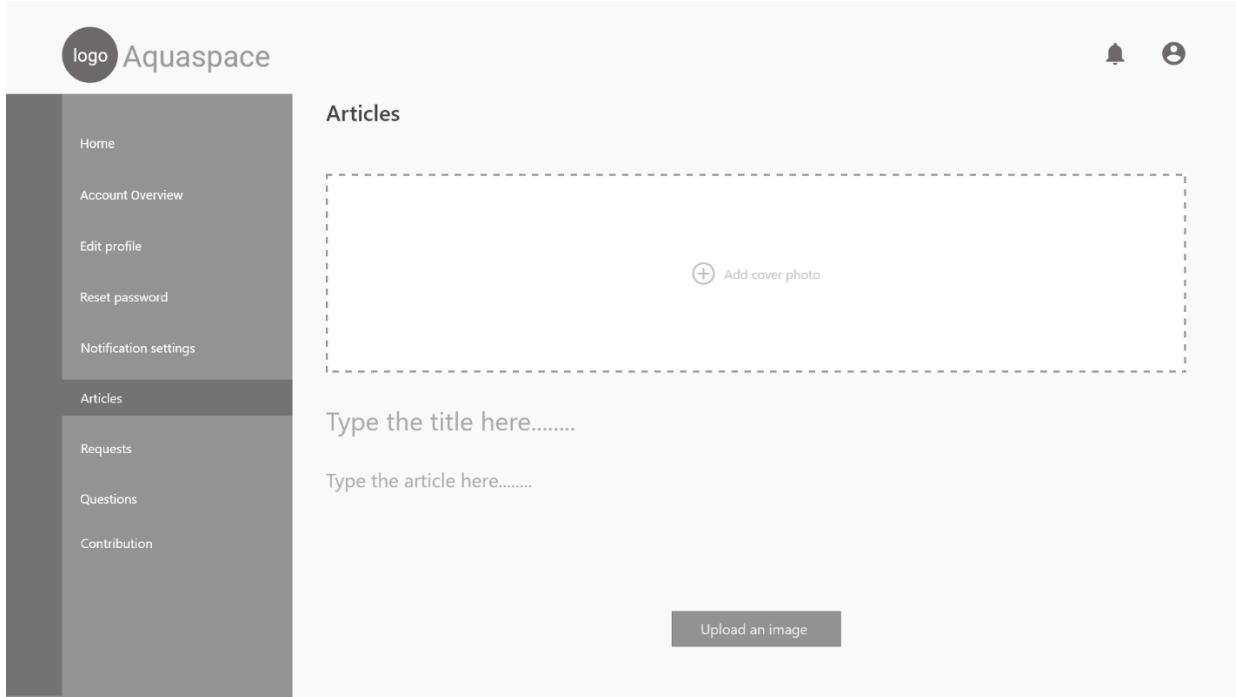


Figure 6.2.39 Add Article

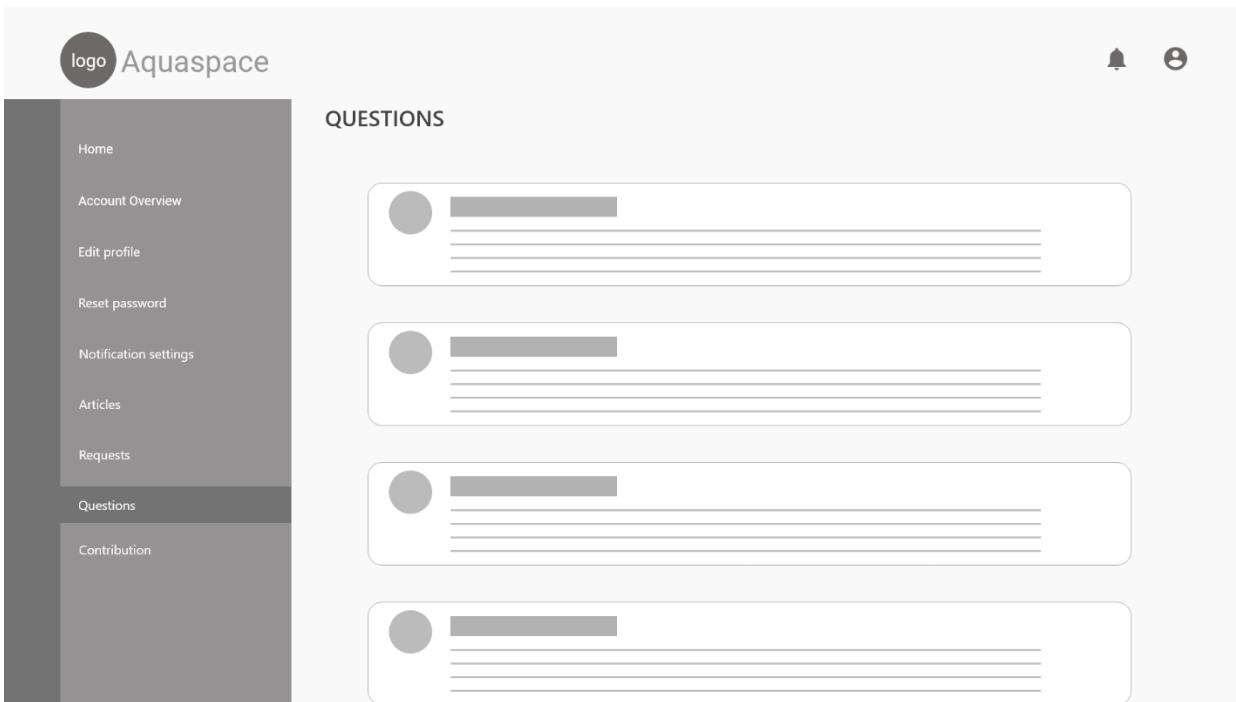


Figure 6.2.40 Questions

### 6.2.3 Store

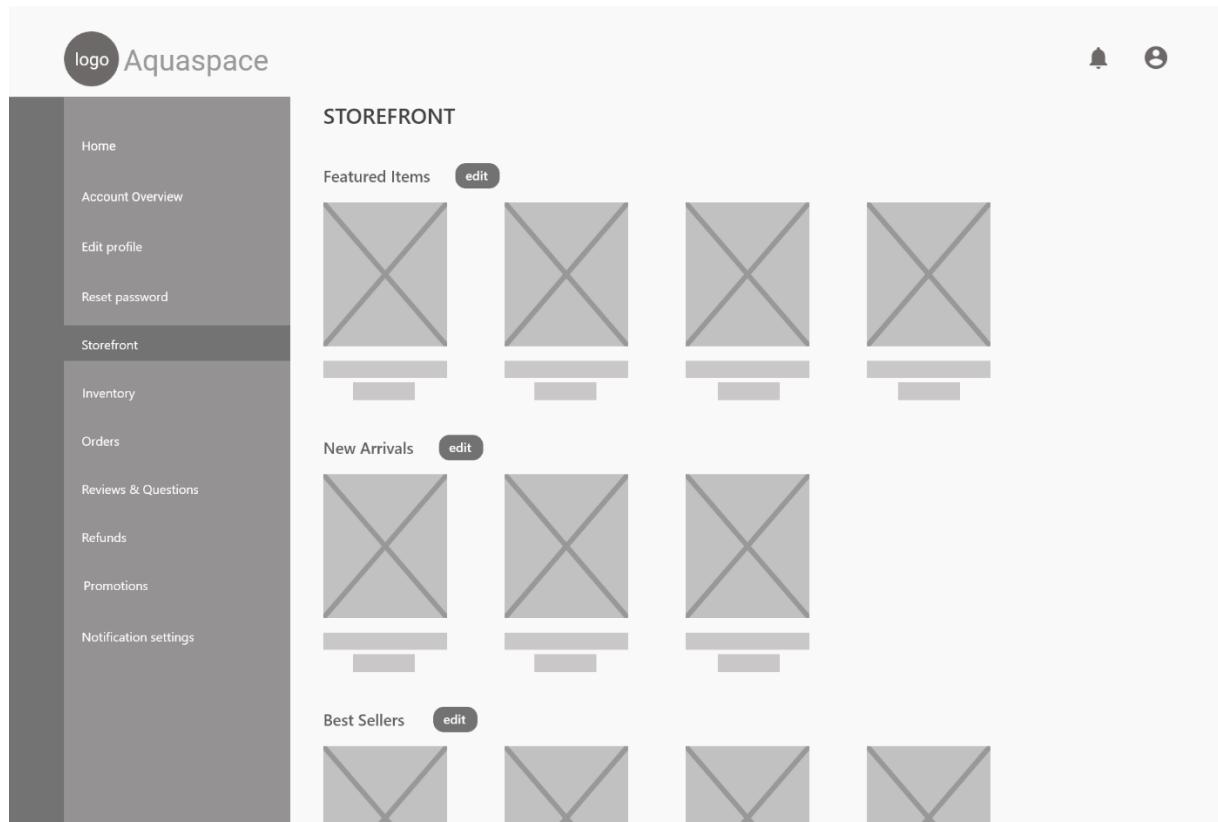


Figure 6.2.41 Store Dashboard

INVENTORY						
	Product Name	Price	Quantity	Status	Delivery	Add

Figure 6.2.42 Inventory

The screenshot shows the Aquaspace SRS application interface. At the top left is the logo and the word "Aquaspace". On the right are two small icons: a bell and a user profile. The main content area has a title "INVENTORY". To the left is a sidebar with the following menu items:

- Home
- Edit profile
- Reset password
- Storefront
- Inventory** (highlighted)
- Orders
- Reviews & Questions
- Refunds
- Promotions
- Generate Reports
- Notification settings

The main form on the right contains fields for adding an item:

Image	<input type="file"/>	<small>edit image</small>
Product Name	<input type="text"/>	
Price	<input type="text"/>	
Quantity	<input type="text"/>	
Status	<input type="text"/>	
Delivery	<input type="text"/>	

At the bottom right are two buttons: "Save" and "Delete".

Figure 6.2.43 Add Item

This screenshot shows the same application interface as Figure 6.2.43, but the "Edit Item" form is displayed. The sidebar and title are identical. The main form includes an "upload image" button with a note: "\*upload an image of your product". The other input fields for Product Name, Price, Quantity, Status, and Delivery are present but appear to be empty or placeholder text.

Figure 6.2.44 Edit Item

The screenshot shows the Aquaspace SRS interface. On the left is a dark sidebar with navigation links: Home, Edit profile, Reset password, Storefront, Inventory, Orders (which is selected), Reviews & Questions, Refunds, Promotions, Generate Reports, and Notification settings. The main content area has a header with PENDING ORDERS, CURRENT ORDERS, and PAST ORDERS tabs. Below the header is a table with columns: Order No, Customer, Products, and Status. Each row represents an order with a status of 'Pending'. To the right of each order row are two buttons: 'Order Details' and 'APPROVE'.

Order No	Customer	Products	Status	Action	Action
[Redacted]	[Redacted]	2 items +	Pending	Order Details	APPROVE
[Redacted]	[Redacted]	2 items +	Pending	Order Details	APPROVE
[Redacted]	[Redacted]	2 items +	Pending	Order Details	APPROVE
[Redacted]	[Redacted]	2 items +	Pending	Order Details	APPROVE

Figure 6.2.45 Pending Orders

This screenshot shows the details for a single pending order. The left sidebar is identical to Figure 6.2.45. The main content area has a header with PENDING ORDERS, CURRENT ORDERS, and PAST ORDERS tabs. Below the header is a section titled 'Order Details' with fields for Order No, Customer, Delivery Method, and Status, all of which are redacted. Below this is a 'Products' section showing three placeholder icons with an 'X' over them. Each icon has a small vertical bar below it labeled 'name', 'price', and 'quantity'. A large 'APPROVE' button is located at the bottom right.

Figure 6.2.46 Pending Order

The screenshot shows the 'CURRENT ORDERS' section of the platform. On the left, a sidebar menu includes 'Home', 'Edit profile', 'Reset password', 'Storefront', 'Inventory', 'Orders' (which is selected), 'Reviews & Questions', 'Refunds', 'Promotions', 'Generate Reports', and 'Notification settings'. The main area displays a table with columns: Order No, Customer, Products, and Status. There are four rows of data, each with a 'Order Details' button. The 'Products' column contains icons representing different items.

Order No	Customer	Products	Status	
[Redacted]	[Redacted]	●	[Redacted]	<button>Order Details</button>
[Redacted]	[Redacted]	● +	[Redacted]	<button>Order Details</button>
[Redacted]	[Redacted]	●	[Redacted]	<button>Order Details</button>
[Redacted]	[Redacted]	● +	[Redacted]	<button>Order Details</button>

Figure 6.2.47 Current Orders

The screenshot shows the 'STOREFRONT' editing interface. The sidebar menu is identical to Figure 6.2.47. The main area features a large placeholder image with a circular upload button labeled '298x298' and an 'edit' button. Below it, the store information is displayed: 'LOREM IPSUM' (member since xx/xx/xxxx), 'Closed Open 000 on Friday', and the address 'No 23, Jaya Mw, Kohuwala, Nugegoda'. A 'About the store' section has three empty text input fields. At the bottom, there is a 'Featured Items' section with an 'edit' button.

Figure 6.2.48 Edit Storefront

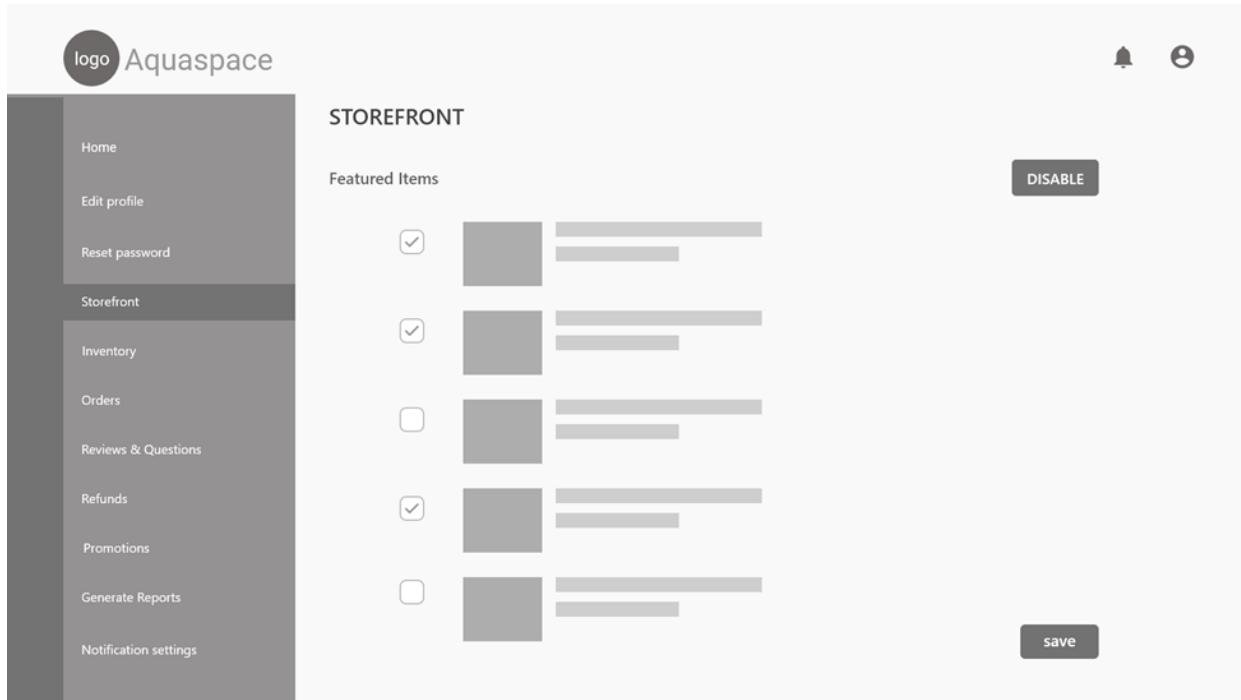


Figure 6.2.49 Edit Storefront

REFUND REQUESTS					
	Order No	Customer	Products	Status	
	[Redacted]	[Redacted]	[Redacted] +	[Redacted]	<button>Order Details</button> <button>View</button>
	[Redacted]	[Redacted]	[Redacted] +	[Redacted]	<button>Order Details</button> <button>View</button>
	[Redacted]	[Redacted]	[Redacted] +	[Redacted]	<button>Order Details</button> <button>View</button>
	[Redacted]	[Redacted]	[Redacted] +	[Redacted]	<button>Order Details</button> <button>View</button>

Figure 6.2.50 Refunds

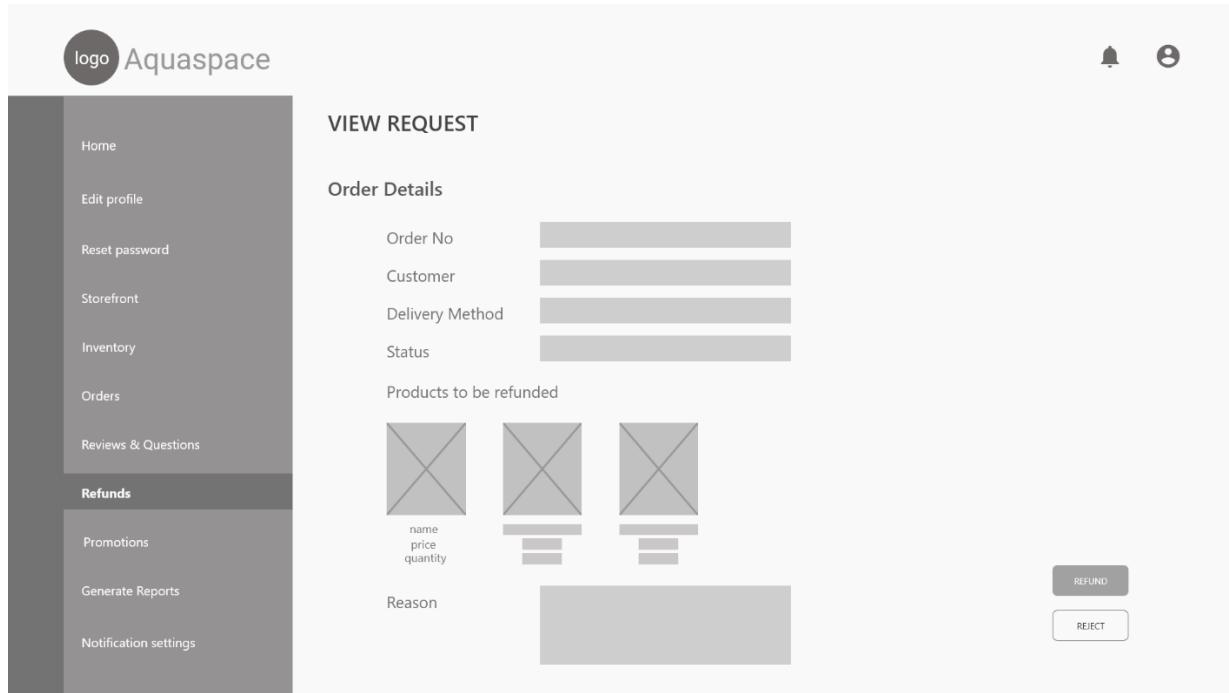


Figure 6.2.51 View Refund Request

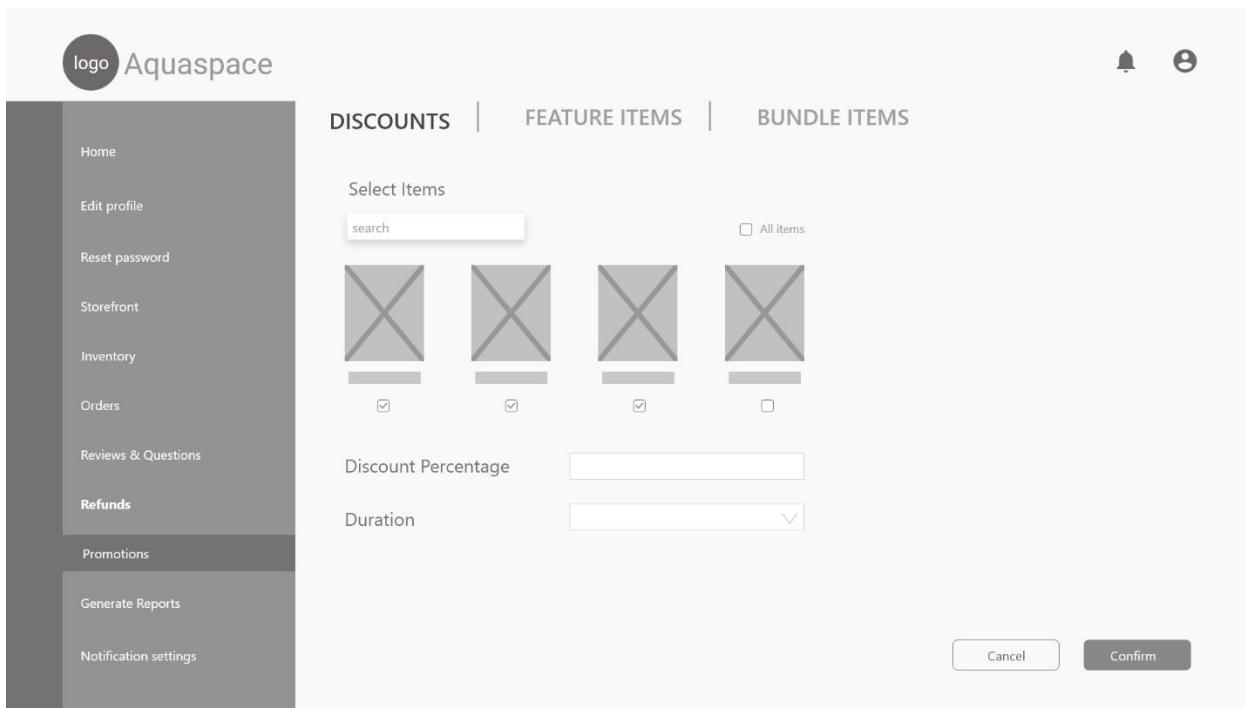


Figure 6.2.52 Promotions - Discounts

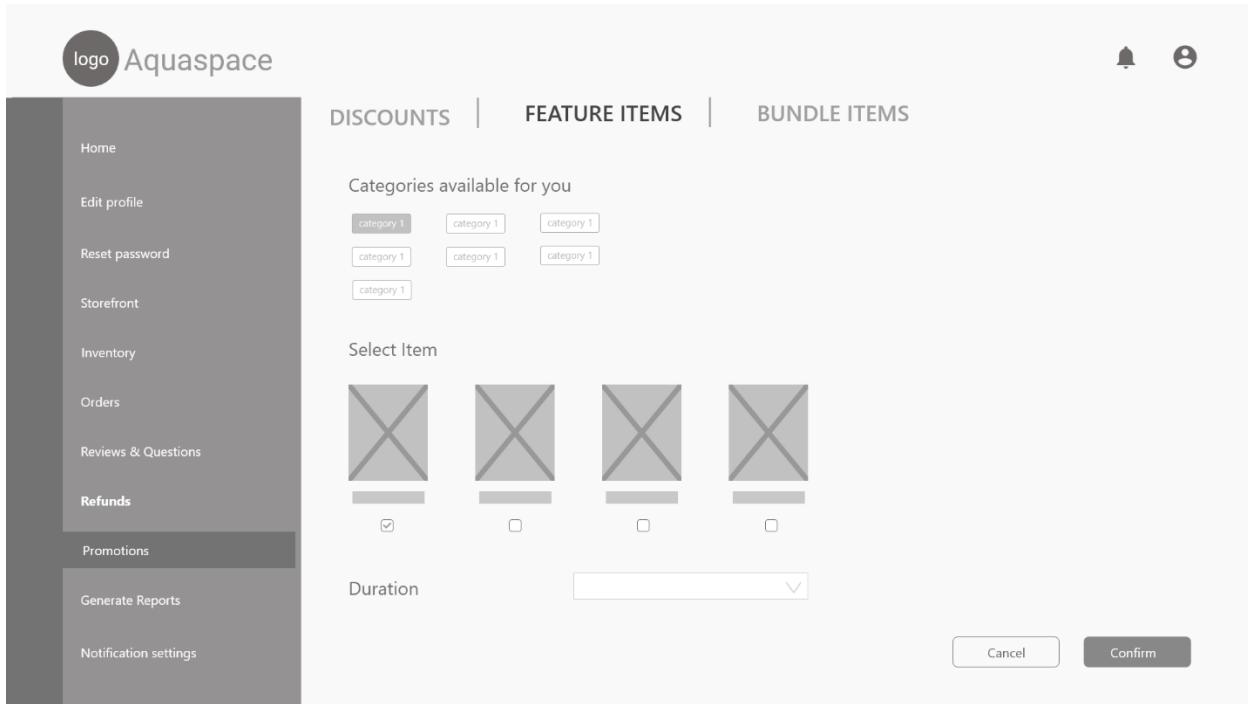


Figure 6.2.53 Promotions - Feature Items

The screenshot shows the Aquaspace SRS interface for managing promotions. On the left, a dark sidebar lists various account and management options. The 'Promotions' option is highlighted. The main area is titled 'DISCOUNTS' and contains sections for 'Recommended Bundle' (with four items marked with a large 'X') and 'Manually Select Items' (with four items marked with a large 'X'). Below these are fields for 'Bundle discount' and 'Duration'. A modal window titled 'BUNDLE' displays a summary of the promotion: Previous Total 220\$ and New Total 180\$. At the bottom right of the main area are 'Cancel' and 'Confirm' buttons.

BUNDLE	
Previous Total	220\$
New Total	180\$

Figure 6.2.54 Promotions - Bundle Items

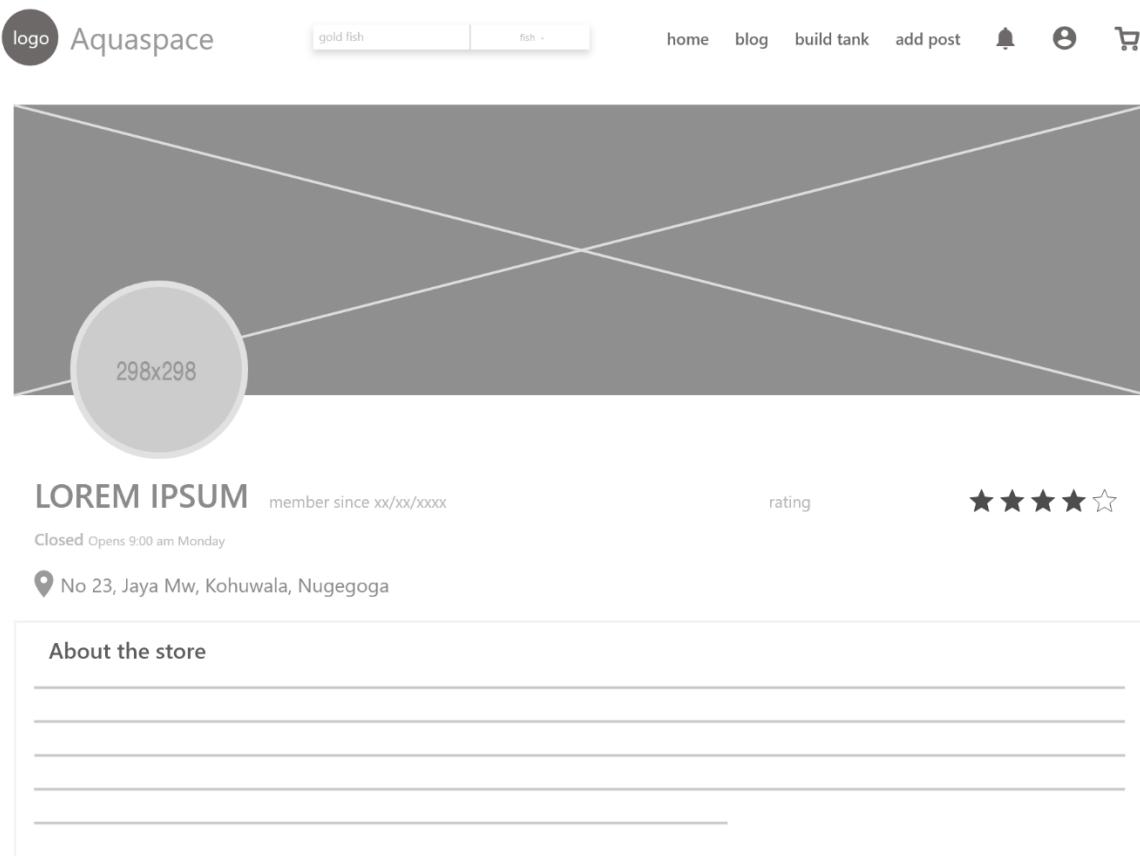


Figure 6.2.55 Store Page

### 6.2.4 Administrator

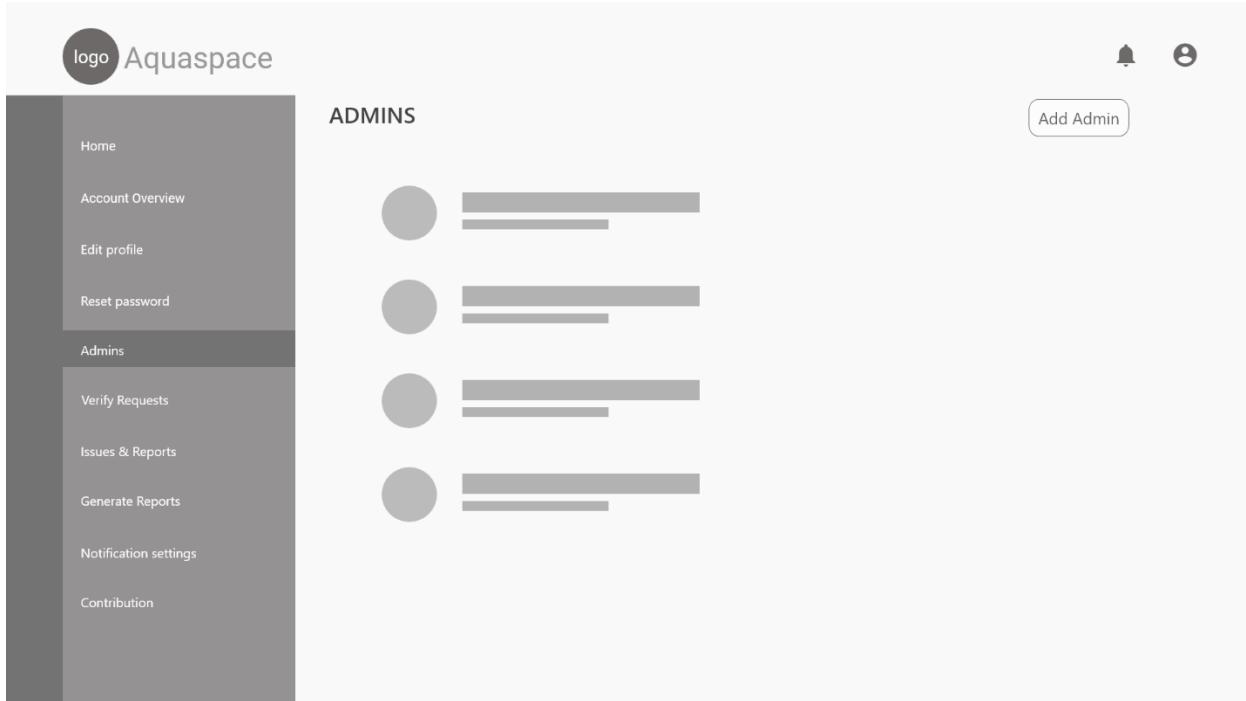


Figure 6.2.565 Add Admins

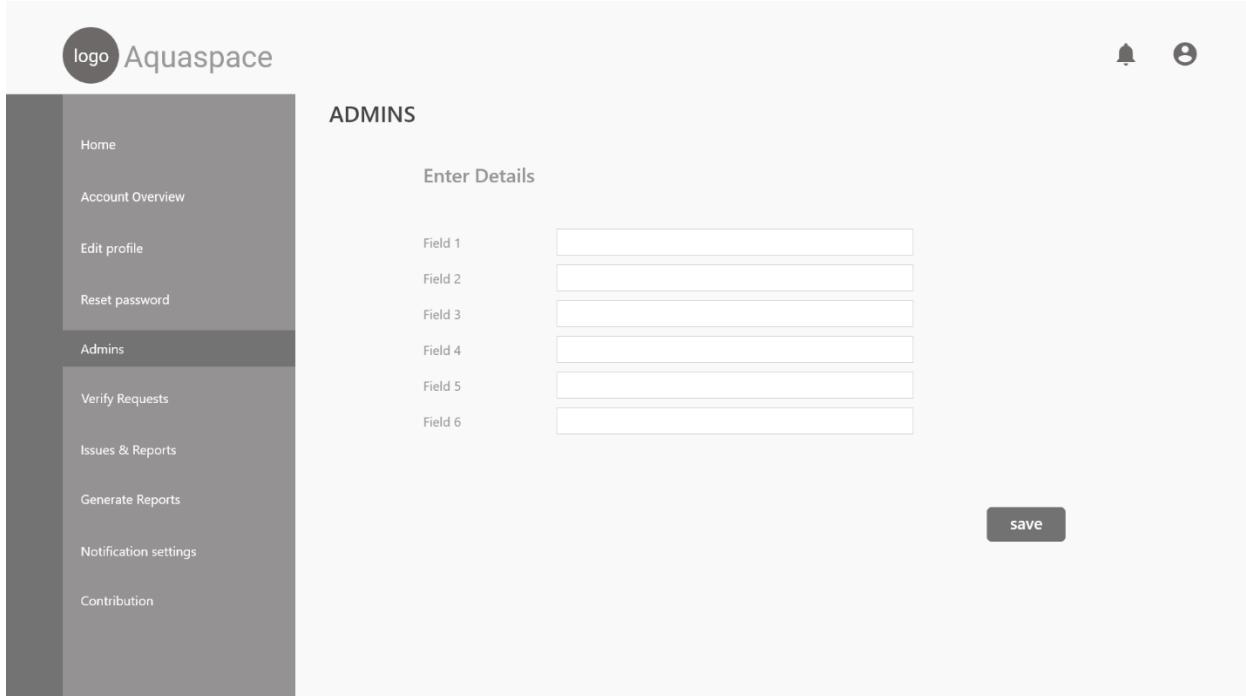


Figure 6.2.56 Add Admins

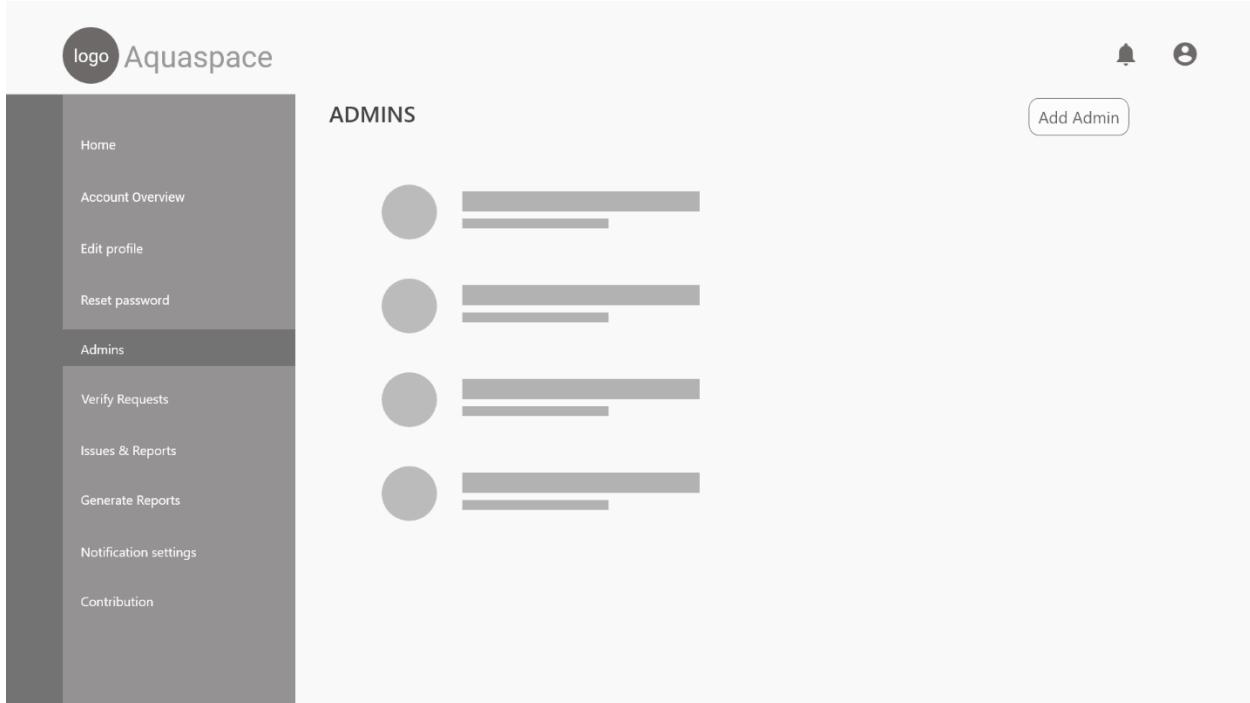


Figure 6.2.57 Contributions

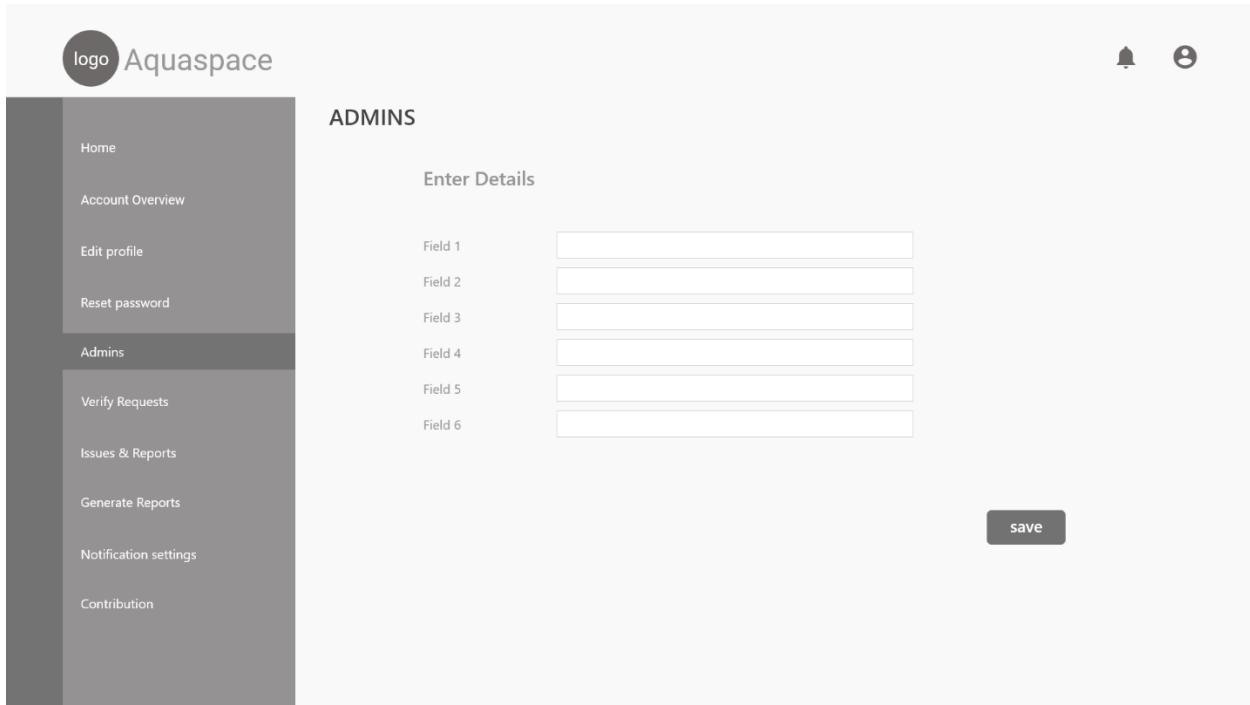


Figure 6.2.58 Individual Contribution

The screenshot shows the 'Issues & Reports' section of the Aquaspace application. On the left, a sidebar menu includes options like Home, Account Overview, Edit profile, Reset password, Admins, Verify Requests, Issues & Reports (which is selected), Generate Reports, Notification settings, and Contribution. The main content area is titled 'ISSUES & REPORTS' and shows two tabs: 'Users' (selected) and 'Posts'. Below this, it says 'Reports from blocked users'. There are four entries, each with a user icon, a redacted name, and a 'View appeal' button. The fourth entry has a 'BLOCKED' status.

Figure 6.2.59 Issues and Reports – User Appeals

The screenshot shows the 'View User Appeal' page. The sidebar and main navigation are identical to Figure 6.2.59. The main content area shows a single user entry with a user icon, a redacted name, and a large text area containing several lines of text. At the bottom left is a 'UNBLOCK' button.

Figure 6.2.60 View User Appeal

**ISSUES & REPORTS**

**Users** | Posts

Blocked accounts

Type	Account	Details
Blocked	Redacted Account Name	<b>DELETE</b> ⓘ has exceeded 3 months
Blocked	Redacted Account Name	<b>DELETE</b>
Blocked	Redacted Account Name	<b>DELETE</b>
Blocked	Redacted Account Name	<b>DELETE</b>

Figure 6.2.61 Delete Account

**VERIFY REQUESTS**

Type	Account	Details
Store	Redacted Account Name	<b>View Details</b>
Admin	Redacted Account Name	<b>View Details</b>
Store	Redacted Account Name	<b>View Details</b>
Store	Redacted Account Name	<b>View Details</b>
Expert	Redacted Account Name	<b>View Details</b>

Figure 6.2.62 Verify Requests

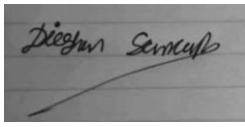
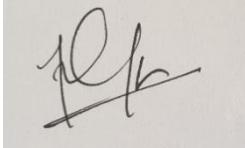
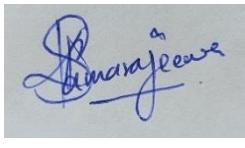
The screenshot shows a user interface for managing account requests. On the left is a vertical sidebar with a dark grey background and white text, listing various account management options. The 'Verify Requests' option is highlighted with a light blue background. The main content area has a white background and features a title 'VERIFY REQUESTS' at the top. Below it, under the heading 'Verify Store', there is a form with several input fields. Each field has a label on the left and a corresponding input box on the right, all of which are currently grayed out. The labels are: 'Company Name', 'Registration No', 'Telephone No', 'Store Address', 'Manager's Name', 'Manager's NIC', and 'Manager's Telephone No'. At the bottom right of the form are two buttons: 'Accept Request' and 'Cancel Request'.

Label	Value
Company Name	[Redacted]
Registration No	[Redacted]
Telephone No	[Redacted]
Store Address	[Redacted]
Manager's Name	[Redacted]
Manager's NIC	[Redacted]
Manager's Telephone No	[Redacted]

Figure 6.2.63 Verify Request Details

## 7. Team Details

Table 7.1 Team Details

<b>Index Number</b>	<b>Name</b>	<b>Signature</b>
19000405	D.M.D.S. Dissanayake	
19000499	I.M. Gunasekara	
19001495	K.P. Samarajeewa	
19000792	W.R. Lakshan	