

# <<FUSWAP SYSTEM>>

**Software Requirement Specification** 

## **RECORD OF CHANGES**

Date	A* M, D	In charge	Change Description
30/06/24	Α	Gia Bao	Add Non-Functional Requirements section
30/06/24	Α	Hai Anh	Add User Interfaces section
30/06/24	Α	Nguyen Anh	Add Technical Requirements section

<sup>\*</sup>A - Added M - Modified D - Deleted

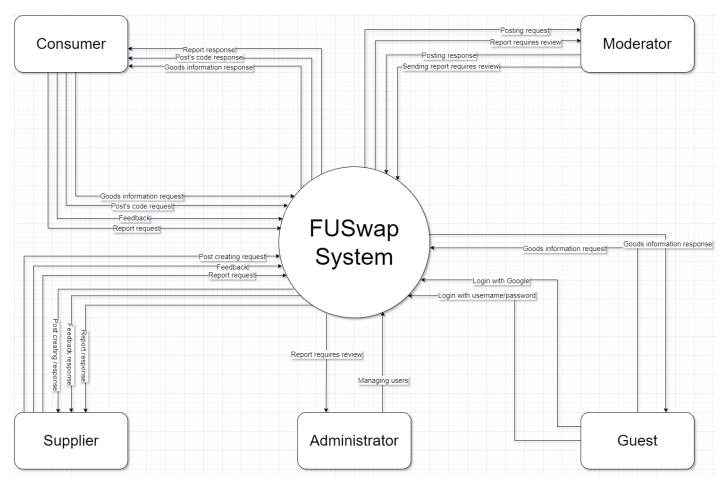
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#### I. Overview

#### 1. Introduction

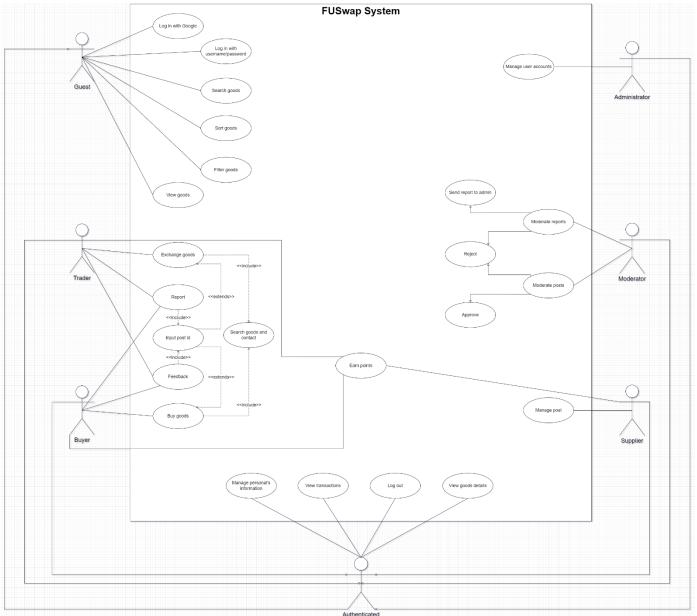
Currently, students have to purchase many new study materials each year. This creates a significant financial burden for students, especially those with limited economic means. However, many of these materials remain in good condition after just one semester but are not reused. This situation not only increases the cost of education but also leads to unnecessary waste of resources. Students often lack convenient methods to exchange or resell these materials to other students, resulting in the need to buy completely new items at the start of each semester. Moreover, the continuous production and consumption of new materials contribute to the depletion of natural resources. Therefore, there is a need for a solution that maximizes the use of used study materials, reduces costs for students, and contributes to environmental protection.



## 2. Use case

Our system offers a wide range of features that help users interact easily and effectively. Below is a use case of the system

## a. Use case diagram



#### b. Use case list

D. Obe case list	
UC01	Log in with Google
UC02	Log in with username/password
UC03	Log out
UC04	Search goods
UC05	View goods
UC06	View contact information
UC07	Manage posts
UC08	Make transactions
UC09	View transactios
UC10	Feedback
UC11	Report

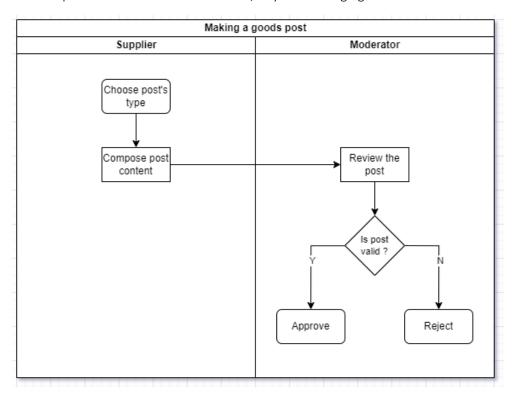
UC12	Sort goods
UC13	Filter goods
UC14	Authorization
UC15	Manage personal's information
UC16	Moderate posts
UC17	Moderate reports
UC18	Manage user accounts

#### 3. Swimlane

#### a. Swimlane diagram

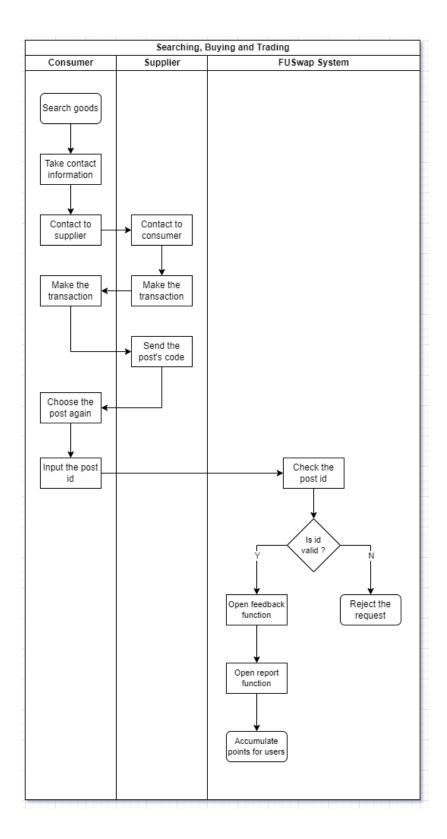
#### i. Making a goods post

Users create posts about goods they want to sell or exchange. They enter product details, upload image and set a price if it's for sale. Once completed, the post will be moderated, then appear on the platform for other users to view, buy or exchange goods.



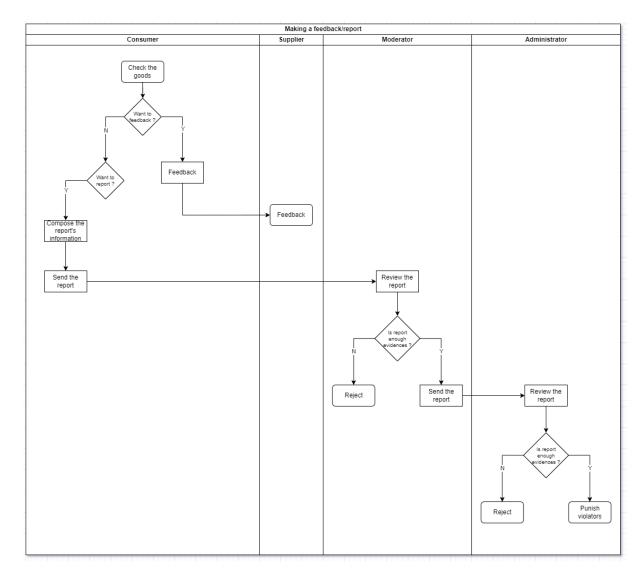
#### ii. Searching, Buying and Trading

Users search for goods. After finding the desired product, they contact the goods supplier and conduct the transaction without going through the system. After the transaction is completed, the supplier will provide the consumer with the post id to open feedback, reporting functions and receive accumulated points.



### iii. Maing a feedback or report

Users provide feedback or report issues related to products or services. They fill out a feedback form, including detailed information about their experience or the issues encountered, and submit this report to the customer support system.



#### b. User Authorization

Screen	Guest	Admin	Mod	Consumer	Supplier
Log in page	X	X	X	X	Х
Home page	X	X	X	X	Х
Create an account		X			
Create a post					Х
Feedback				Х	
Report				Х	Χ
Goods details page				Х	Х
Profile page		X	Х	X	Х
Goods management page					Х

#### In which:

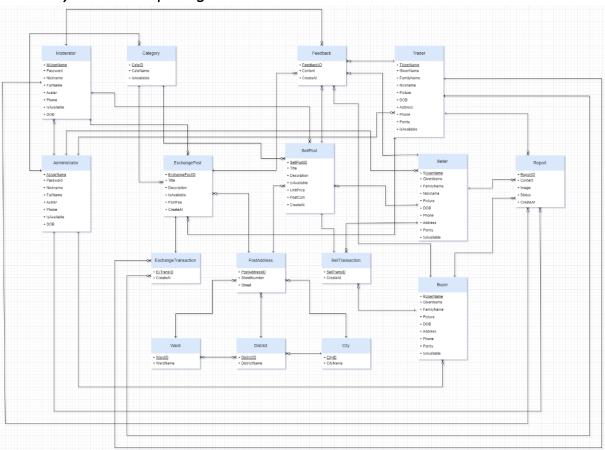
- *Guest:* a user who is browsing the platform without being logged in. They can view content and search for goods but have limited access to features such as purchasing or posting items.
- *Admin:* a user with the highest level of access, responsible for managing the entire platform. They can oversee user activities, manage content, handle complaints.

- *Mod:* a user with special privileges to monitor and manage community interactions. Moderators can review and moderate content, handle user reports, enforce platform rules, and support the admin in maintaining a safe and orderly environment.
- *Consumer:* a registered user who buys goods or services on the platform. They can search for products, make transactions, leave feedback or report.
- **Supplier:** a registered user who sells goods or services on the platform. They can create posts for their products, manage their listings.

#### c. Non-Screen Functions

#	Feature	System Function	Description
1	Login with Google	The application allows users to log in with their Google account instead of creating a new account or logging in with a separate email and password	This function helps users save time and remember passwords by allowing them to use login information stored on their Google account. This also increases security by using protections and verification from Google
2	Earning points	The application automatically accumulates points for users every time they make a transaction	This function motivates users to continue using the application. Accumulated points can be used to upgrade account types

# 4. Entity Relationship Diagram



# **Entities Description**

#	Entity	Description
1		An individual with full access to the platform's backend,
1	Administrator	responsible for managing users, content
		A user with permissions to oversee and regulate platform
2	Moderator	interactions. Moderators review content, address user reports,
		enforce rules, and maintain a respectful community environment
		A classification used to organize goods and services on the
3	Category	platform. Categories help users easily navigate and find specific
		types of products or services
		Comments or reviews provided by users regarding their
4	Feedback	experience with products, services, or the platform. Feedback
		helps improve quality and customer satisfaction
		A formal notification submitted by users to highlight issues or
5	Report	violations on the platform. Reports are reviewed by moderators or
		administrators for appropriate action
6	Trader	A user who engages in both trading and posting a trading post
7	Seller	A user who lists and sells goods on the platform. Sellers create
,	Jellel	posts, manage goods posts
		A user who purchases goods on the platform. Buyers search for
8	Buyer	products, make transactions, and can leave feedback on their
		purchases
9	City	A major geographic division within the platform's address system.
Э	City	Cities contain multiple districts and wards

10	District	A subdivision of a city, containing multiple wards. Districts help further pinpoint locations within the broader city area
11	Ward	The smallest administrative unit within a district, representing specific neighborhoods or communities. Wards provide detailed address information
12	SellTransaction	The process and record of a buyer purchasing goods or services from a seller. This includes information of transaction makers and transaction status
13	ExchangeTransaction	The process and record of trading goods or services between users. This includes information of transaction makers and transaction status
14	PostAddress	The location details provided in a user's post, including city, district, and ward, to specify where the goods or services are available
15	ExchangePost	A user-generated post listing items available for trade. Exchange posts specify what items are being offered and what the user is seeking in return
16	SellPost	A user-generated post listing goods or services for sale. Sell posts include product details, pricing, and availability for buyers to consider

# II. Functional Requirements

# 1. Feature list and authorization

#	Guest	Admin	Mod	Consumer	Supplier	System
Log in with Google	Х					
Log in with username/password	Х					
Log out		Х	Χ	X	Χ	
Search goods	Х	Х	Χ	X	Χ	
View goods	Х	Х	Χ	X	Χ	
View contact information		Х	Χ	X	Х	
Manage posts					Χ	
Make transactions				X	Х	
View transactions				X	Χ	
Input post id				X		
Feedback				X		
Report				X	Χ	
Sort goods	Х	Х	Χ	X	Χ	
Filter goods	Х	X	Х	X	Х	
Authorization						Χ
Manage personal's information		Х	Χ	X	Χ	
Moderate posts			Χ			
Moderate reports		Χ	Χ			
Manage user account		Х				

# 2. Functional Requirement Table

## a. Log in with Google

ID and Name:	UC01 - Log in with Google	-		
Created By:	Gia Bao	Date Created:	30/06/2024	
Primary Actor:	Guest	Secondary Actors:	FUSwap System	
Description:	This use case describes the process of logging in to the FUSwap platform using a Google account			
Trigger:	A user selects the "Log in v	with Google" option		
Preconditions:	The user must have a Goo	The user must have a Google account		
Postconditions:	The user is logged in and redirected to their dashboard			
Normal Flow:	1. The user clicks on the "Log in with Google" button			
	2. The system redirects the user to the Google login page			
	3. The user enters their Google credentials and consents to data sharing			
	4. Google authenticates the user and redirects them back to the FUSwap platform			
	5. The system logs the user in and displays their dashboard			
Priority:	High			
Business Rules:	The user's Google account	must be FPT Student	email ( @fpt.edu.vn )	

## b. Log in with username/password

ID and Name:	UC02 - Log in with username/password			
Created By:	Gia Bao Date Created: 30/06/2024			
Primary Actor:	Guest	Secondary Actors:	FUSwap System	
Description:	This use case describes the username and password	e process of logging in	to the FUSwap platform using a	
Trigger:	A user attempts to log in w	A user attempts to log in with their username and password		
Preconditions:	The user must have an existing account on the platform			
Postconditions:	The user is successfully logged in and redirected to their dashboard			
Normal Flow:	1. The user navigates to the login page			
	2. The user enters their username and password			
	3. The system verifies the credentials			
	4. If the credentials are valid, the user is logged in and redirected to the dashboard			
	5. If the credentials are invalid, the system displays an error message			

Priority:	High
Business Rules:	Username/password must meet requirements (e.g., minimum length, complexity)

### c. Log out

ID and Name:	UC03 – Log out			
Created By:	Gia Bao	Date Created:	30/06/2024	
Primary Actor:	Users (Admin, Mod, Consumer, Supplier)	Secondary Actors:	FUSwap System	
Description:	This use case describes the	e process of logging o	ut of the FUSwap platform	
Trigger:	A user selects the log out of	A user selects the log out option		
Preconditions:	The user must be logged in			
Postconditions:	The user is logged out and redirected to the homepage			
Normal Flow:	<ol> <li>The user clicks the "Log out" button</li> <li>The system terminates the user's session</li> <li>The system redirects the user to the homepage</li> </ol>			
Priority:	High			
Business Rules:	User sessions must be securely terminated to prevent unauthorized access			

## d. Search goods

ID and Name:	UC04 – Search goods		
Croated By	Cia Pao	Date Created:	30/06/2024
Created By:	Gia Bao	Date Createu.	30/06/2024
Primary Actor:	All users	Secondary Actors:	FUSwap System
Description:	This use case describes the	e process of searching	for goods on the FUSwap platform
Trigger:	A user initiates a search for goods		
Preconditions:	The user must be on the FUSwap platform		
Postconditions:	The user is presented with a list of goods that match the search criteria		
Normal Flow:	1. The user navigates to the search bar		
	2. The user enters search criteria (keywords, categories, etc.)		
	3. The user submits the search query		
	4. The system retrieves and displays a list of goods matching the search criteria		
Priority:	Medium		

Business Rules:	Search results should be relevant and sorted by relevance
	Users can filter and sort search results

## e. View goods

ID and Name:	UC05 – View goods		
Created By:	Gia Bao	Date Created:	30/06/2024
Primary Actor:	All users	Secondary Actors:	FUSwap System
Description:	This use case describes the	e process of viewing g	oods on the FUSwap platform
Trigger:	A user go to the homepage	e or search a goods lis	t
Preconditions:	The user must be on the FUSwap platform		
Postconditions:	The user views general information about each goods		
Normal Flow:	<ol> <li>The user search and view a goods list</li> <li>The system displays general information about goods (title, price, images, etc.)</li> <li>The user submits the search query</li> <li>The system retrieves and displays a list of goods matching the search criteria</li> </ol>		
Priority:	Medium		
Business Rules:	General information must be accurate and up-to-date		

### f. View contact information

ID and Name:	UC06 – View contact information		
Created By:	Hai Anh	Date Created:	30/06/2024
Primary Actor:	Users ( Admin, Mod, Consumer, Supplier )	Secondary Actors:	FUSwap System
Description:	This use case describes the process of viewing contact information on the FUSwap platform		
Trigger:	A user selects to view the contact information of another users		
Preconditions:	The user must have permission to view contact information		
Postconditions:	The user views the contact information of the selected user		
Normal Flow:	1. The user selects to view contact information		
	2. The system retrieves and displays the contact information		
Priority:	Medium		
Business Rules:	Contact information must be kept secure and only displayed to authorized users		

## g. Manage posts

ID and Name:	UC07 – Manage posts				
Created By:	Hai Anh	Date Created:	30/06/2024		
Primary Actor:	Supplier	Secondary Actors:	FUSwap System and Moderator		
Description:	This use case describes the platform	e process of managing	g posts for goods on the FUSwap		
Trigger:	A supplier creates, update	s, or deletes a post fo	r a good		
Preconditions:	The user must be logged in	n as a supplier			
Postconditions:	The post is successfully cre	eated, updated, or del	eted		
Normal Flow:	1. The supplier navigates t	o the manage posts s	ection		
	2. The supplier chooses to	create, update, or de	lete a post		
	For creating a post:	For creating a post:			
	3. The supplier enters details about the good (title, description, price, images, etc.)				
	4. The supplier submits the post and waiting for moderate				
	5. The system saves the post and displays it in the listings				
	For updating a post:				
	6. The supplier selects an existing post to update				
	7. The supplier modifies the details of the post				
	8. The supplier submits the	e changes			
	9. The system updates the	post and displays the	changes		
	For deleting a post:				
	10. The supplier selects an	existing post to delet	ce		
	11. The supplier confirms	the deletion			
	12. The system deletes the post from the listings				
Priority:	High				
Business Rules:	Posts must meet content guidelines and not contain prohibited goods				

### h. Make transactions

ID and Name:	UC08 – Make transaction		
Created By:	Hai Anh	Created By:	Hai Anh
Primary Actor:	Consumer	Primary Actor:	Consumer

Description:	This use case describes the process of inputting a post ID for opening feedback, report function and earn points
Trigger:	A user needs to input a post ID
Preconditions:	The user must have the necessary permissions
Postconditions:	The specified action is completed based on the input post ID
Normal Flow:	1. The user navigates to the post ID input section
	2. The user enters the post ID
	3. The system retrieves the post associated with the ID
Priority:	High
Business Rules:	The post id must be 5 characters long

#### i. View transactions

ID and Name:	UC09 – View transactions		
Created By:	Hai Anh	Date Created:	30/06/2024
Primary Actor:	Users ( Consumer, Supplier )	Secondary Actors:	FUSwap System
Description:	This use case describes the process of viewing transaction history on the FUSwap platform		
Trigger:	A user chooses to view their past transactions		
Preconditions:	The user must be logged in		
Postconditions:	The user views a list of past transactions with details		
Normal Flow:	1. The user navigates to the transaction history section		
	2. The system retrieves and displays a list of past transactions		
Priority:	Medium		
Business Rules:	Transaction data must be kept secure and accessible only to authorized users		

## j. Feedback

ID and Name:	UC10 – Feedback		
Created By:	Hai Anh	Date Created:	30/06/2024
Primary Actor:	Consumer	Secondary Actors:	FUSwap System
Description:	This use case describes the process of providing feedback on the FUSwap platform		
Trigger:	A user decides to provide feedback		

Preconditions:	The user must be logged in	
Postconditions:	The feedback is successfully submitted and recorded	
Normal Flow:	1. The user navigates to the feedback section	
	2. The user enters their feedback in the provided form	
	3. The user submits the feedback	
	4. The system records the feedback and notifies the relevant parties	
Priority:	High	
Business Rules:	Feedback must be constructive and adhere to community guidelines	

# k. Report

ID and Name:	UC11 – Report		
Created By:	Nguyen Anh	Date Created:	30/06/2024
Primary Actor:	Consumer, Supplier	Secondary Actors:	FUSwap System, Admin and Mod
Description:	This use case describes the process of reporting an issue on the FUSwap platform or issue about an user, post		
Trigger:	A user encounters an issue	e or violation and deci	des to report it
Preconditions:	The user must be logged in		
Postconditions:	The report is successfully submitted and investigated		
Normal Flow:	<ol> <li>The user navigates to the report section</li> <li>The user fills out the report form with details of the issue</li> <li>The user submits the report</li> <li>The system records the report and notifies the moderators for investigation</li> </ol>		
Priority:	High		
Business Rules:	Reports must be genuine and include sufficient details for investigation		

# I. Sort goods

ID and Name:	UC12 – Sort goods			
Created By:	Nguyen Anh	Date Created:	30/06/2024	
Primary Actor:	All users	Secondary Actors:	FUSwap System	
Description:	This use case describes the process of sorting goods on the FUSwap platform			
Trigger:	A user wants to organize the search results or listings by specific criteria			
Preconditions:	The user must be on the F	USwap platform		

Postconditions:	The goods are sorted according to the selected criteria		
Normal Flow:	1. The user selects the sort option from the search results or listings		
	2. The user chooses the criteria for sorting (e.g., price, date)		
	3. The system sorts the goods based on the selected criteria and displays the updated list		
Priority:	Medium		
Business Rules:	Sorting options must be relevant and useful to the user		

# m. Filter goods

ID and Name:	UC13 – Filter goods			
Created By:	Nguyen Anh	Date Created:	30/06/2024	
Primary Actor:	All users	Secondary Actors:	FUSwap System	
Description:	This use case describes the	e process of filtering g	goods on the FUSwap platform	
Trigger:	A user wants to narrow down the search results or listings based on specific criteria			
Preconditions:	The user must be on the FUSwap platform			
Postconditions:	The goods are filtered according to the selected criteria			
Normal Flow:	<ol> <li>The user selects the filter option from the search results or listings</li> <li>The user chooses the criteria for filtering (e.g., category, price range, location)</li> <li>The system filters the goods based on the selected criteria and displays the updated list</li> </ol>			
Priority:	Medium			
Business Rules:	Filtering options must be relevant and useful to the user			

### n. Authorization

ID and Name:	UC14 – Authorization		
Created By:	Nguyen Anh	Date Created:	30/06/2024
Primary Actor:		Secondary Actors:	FUSwap System
Description:	This use case describes the FUSwap platform	e process of managing	g user permissions and roles on the
Trigger:	System decides to update	user permissions or re	oles
Preconditions:	The user must be logged in	า	

Postconditions:	The user permissions or roles are successfully updated
Normal Flow:	1. The user logged in
	2. The system updates the user's permissions or roles
Priority:	High
Business Rules:	No one can modify user permissions or roles

## o. Manage personal's information

ID and Name:	UC15 – Manage personal's information			
Created By:	Nhat Phi	Date Created:	30/06/2024	
Primary Actor:	Users ( Admin, Mod, Consumer, Supplier )	Secondary Actors:	FUSwap System	
Description:	This use case describes the process of managing personal information on the FUSwap platform			
Trigger:	A user decides to update their personal information			
Preconditions:	The user must be logged in			
Postconditions:	The personal information is successfully updated			
Normal Flow:	<ol> <li>The user navigates to the personal information section</li> <li>The user updates their personal information (e.g., name, address)</li> <li>The user saves the changes</li> <li>The system updates the personal information</li> </ol>			
Priority:	Medium			
Business Rules:	Personal information must be kept secure and accurate			

## p. Moderate posts

ID and Name:	UC16 – Moderate posts		
Created By:	Nhat Phi	Date Created:	30/06/2024
Primary Actor:	Mod	Secondary Actors:	FUSwap System
Description:	This use case describes the process of moderating posts on the FUSwap platform		
Trigger:	A moderator reviews posts for compliance with platform guidelines		
Preconditions:	The user must be logged in as a moderator		
Postconditions:	The post is either approved or rejected		
Normal Flow:	1. The moderator navigates to the post moderation section		

	2. The moderator reviews the post content	
3. The moderator approves or rejects the post		
	4. The system updates the post status	
Priority:	High	
Business Rules:	Posts must comply with platform guidelines	

### q. Moderatore reports

ID and Name:	UC17 – Moderate reports		
Created By:	Nhat Phi	Date Created:	30/06/2024
Primary Actor:	Mod	Secondary Actors:	FUSwap System
Description:	This use case describes the	e process of moderati	ng reports on the FUSwap platform
Trigger:	A moderator reviews user	reports for compliand	ce with platform guidelines
Preconditions:	The user must be logged in as a moderator		
Postconditions:	The report is either resolved or escalated for further action		
Normal Flow:	<ol> <li>The moderator navigates to the report moderation section</li> <li>The moderator reviews the report details</li> <li>The moderator resolves the report or escalates it for further action</li> <li>The system updates the report status</li> </ol>		
Priority:	High		
Business Rules:	Reports must be handled promptly and fairly		

#### r. Manage user accounts

ID and Name:	UC18 – Manage user accounts				
Created By:	Nhat Phi	Date Created: 30/06/2024			
Primary Actor:	Admin	Secondary Actors:	FUSwap System		
Description:	This use case describes the process of managing user accounts on the FUSwap platform				
Trigger:	An admin decides to create an account or update user account details				
Preconditions:	The user must be logged in as an admin				
Postconditions:	The user account details are successfully updated or created				
Normal Flow:	1. The admin navigates to the user account management section				
	For update an account:				

	2. The admin selects a user to update		
	3. The admin modifies the user account details		
	4. The admin saves the changes		
	5. The system updates the user account details		
	For create an account:		
	6. The admin input information of the mod account		
	7. The admin click submit		
	8. The system save the account		
Priority:	High		
Business Rules:	Only admins can modify user account details and create accounts		

## **III. Non-Functional Requirements**

### 1. Usability

a. Intuitive Interface

The platform should have a clean and straightforward layout that allows users to easily find and use features such as searching for goods, posting items, and managing personal information.

b. User Assistance

Include help sections, tooltips, and FAQs to assist users in navigating the platform and resolving common issues.

## 2. Security

a. Data Protection

Ensure that all personal and transactional data is encrypted both in transit and at rest.

b. Authentication & Authorization

Implement strong authentication mechanisms and ensure proper authorization controls to restrict access to sensitive features.

### 3. Performance

a. Scalability

The platform should be designed to scale seamlessly to accommodate increasing numbers of users and transactions.

b. Response Time

Ensure that the system responds quickly to user interactions, with minimal latency for actions such as searching for goods, loading pages, and processing transactions.

#### IV. User Interfaces

# V. Technical Requirements

Usecase	Title	Prefix	No.	Description
---------	-------	--------	-----	-------------

			01	Verify email suffix that must
UC01	Log in with Google	GG	02	have @fpt.edu.vn  Redirect to localhost:8080
			02	
				when clicking "Login with
LICO2	1 :	LID	02	Google"
UC02	Log in with	UP	03	Username is required
	username/password		04	Password is required
UC03	Log out	LO	05	User cannot access pages that
				require authentication after
				logging out
			06	Search keywords must match
				the title or content of the post
			07	Empty search query displays
UC04	Search goods	SEG		default results
3 3 3 1	Search Boods	323	08	Search results pagination
				works correctly
			09	Special characters in search
				query must limit the data
				returned
UC05	View goods	VG	10	Users can view all goods posts
			11	Users can view post details
UC06	View contact	CI	12	Users can view the post's
	information			contact information
			13	Post type is required
			14	Title must not be blank
			15	Title must be 5 – 50
				alphanumeric characters long
			16	Content must not be blank
UC07	Manage posts	MP	17	Content must be 10 – 200
				alphanumeric characters long
			18	Unit price (for sell post only)
				must be a positive number
			19	Image must not be blank
			20	System must display a QR code
				to pay for the post
			21	Users cannot update post type
			22	Users can enter post id
			23	Users can feedback/report if
UC08	Make transactions	MT		the post id is valid
			24	Users can earn points if the
				post id is valid
			25	Post id must have 5 characters
UC09	View transactions	VT	26	Users can view their
				transactions
			27	Feedback content must be 10 –
				50 characters long
			28	Users cannot submit blank
UC10	Feedback	FB		feedback content
	. 555.84610	. 2	29	Submitting feedback displays a
				confirmation message
			1	

			30	Feedback cannot be edited
			30	once submitted
			31	
			31	Report content must be 10 –
UC11	Report	RP	22	200 characters long
	Пероп	IXF	32	Report image must not be blank
			33	Submitting report displays a
				confirmation message
			34	Returns a sorted list from
				lowest price to highest price
			35	Returns a sorted list from
UC12	Sort goods	SOG	33	highest price to lowest price
			36	Returns a sorted list from
			30	newest date to oldest date
			37	Returns a sorted list from
			57	oldest date to newest date
			38	
				Returns goods by price range
			39	Returns goods by post type
UC13	Filter goods	FG	40	Returns goods by city
			41	Returns goods by district
			42	Returns goods by ward
			43	Guests cannot access the
				customer, administrator and
				moderator pages
UC14	Authorization	AZ .	44	Customers cannot access the
				admin and moderator pages
			45	Moderators cannot access the
				administrator pages
			46	Admins can access the
				customer, administrator and
				moderator pages
			47	Guests cannot access the
				customer, administrator and
				moderator pages
	Manage personal's information	PI	48	Users can view their profiles
UC15			49	Users can update their profile
			50	Customers cannot update
				email address
			51	Manager cannot update
				username
	Moderate posts	МР	52	Moderators can view posts
UC16				that have been approved and
				need approval
			53	Moderators can reject a post
			54	Moderators can approve a post
UC17	Moderate reports	MR	55	Moderators can view reports
				have been approved and need
				approval
			56	Moderators can reject a report
			57	Moderators can approve ( send
				to admin ) a post

			58	Administrator can create
UC18	Manage user accounts	UA		moderator accounts
			59	Check that the username of
				the moderator account already
				exists
			60	Administrator can ban
				accounts