

**VIDEO GAME DISTRIBUTION SERVICE**

**Software Requirement Specification**

– Hanoi, August 2022 –

Record of changeS

|  |  |  |  |
| --- | --- | --- | --- |
| Date | A\* M, D | In charge | Change Description |
| 13/Apr | A | KienNT | Thêm mô tả chức năng Setting Details (II.1.a) |
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\*A - Added M - Modified D - Deleted

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# I. Overview

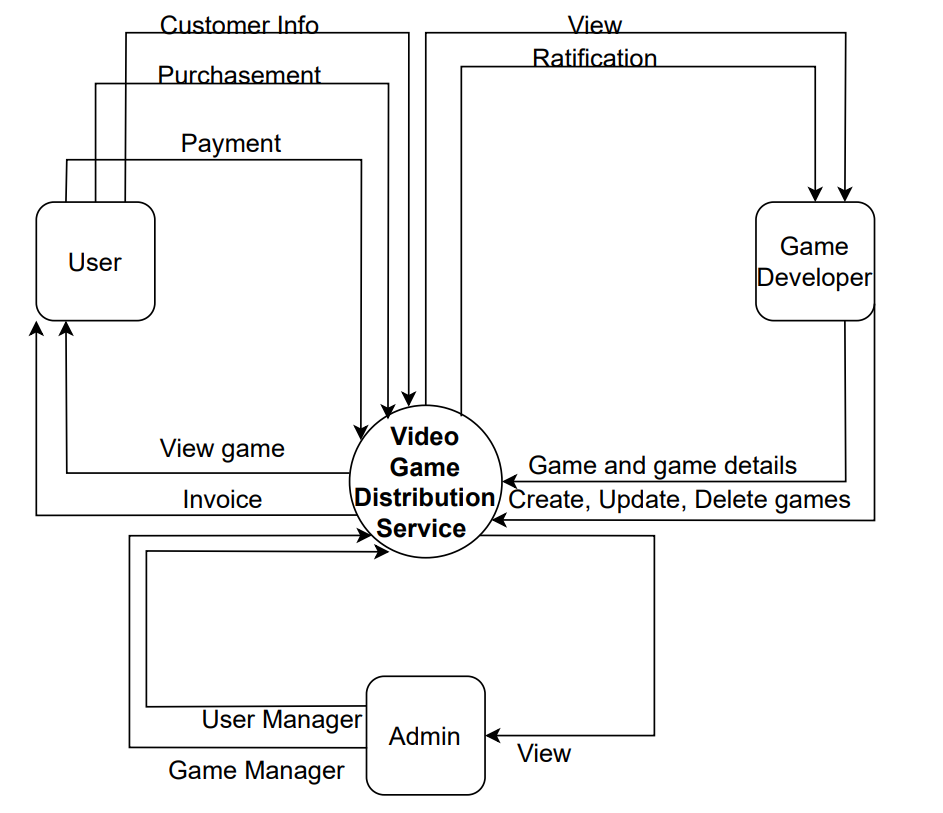
## 1. Introduction

Video Game Distribution Service is a web application that allows people that love video games to upload and sell their own games online. Meanwhile, anyone visiting the website can register for a free account to buy whatever games they want.

Game with good quality but at affordable prices for the community remains the top priority for our website. Our goal is to bring the gaming community the best experience when visiting our website.

* Guest: unregistered users.
* User: registered users who can purchase items online and interact with them(rate, comment,…)
* Publisher: registered users who sell their games to the customers.
* Admin: the system administrator.

**The interaction between the system and external entities is described as the following diagram:**

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**Figure 1.1: Interaction between the system and entities**

## 2. System Functions

#### a. Screen Flow

User Screen Flow:

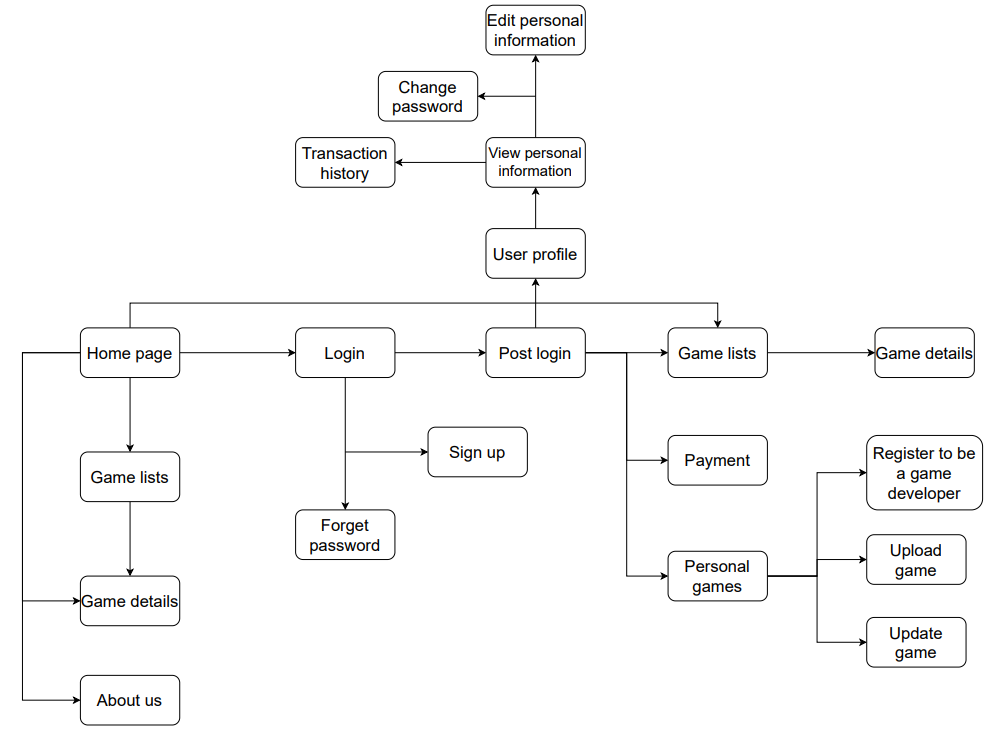


Figure 2.1: User screen flow

Admin Screen Flow:

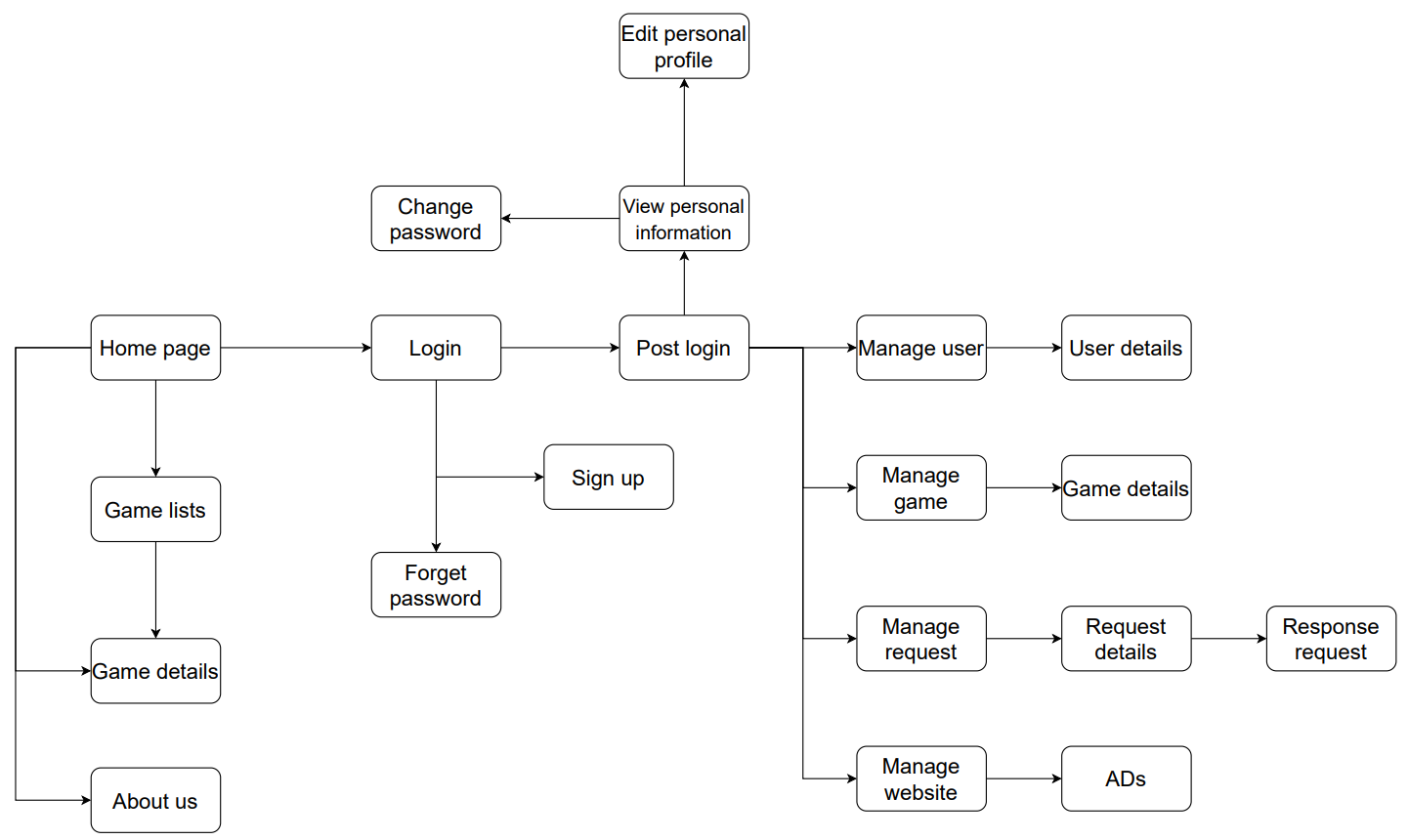


Figure 2.2: Admin screen flow

#### b. Screen Details

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Screen/Function** | **Feature** | **Description** |
| 1 | Login | Common | Allow user to enter username and password to login. On this page, there are also options for user to register for new accounts or reset password in case he/she forgets it. |
| 2 | Sign up | Common | Allow user to register to the system by inputting required information. Then the system validates users and creates new user account using the inputted information |
| 3 | Forget password | Common | User will input email of the account then the system will send them an email of the new password of the account. After that, user must login and change the password. |
| 4 | Home page | Public | * Show contact information with social links of our group. * Show brief information of the team. * Show hot and recommended games. User can search for the game they want |
| 5 | Game lists | Public | After user search game, or click a category, the website redirect user to this page. User can see the list of games according to what user want to see. |
| 6 | Game details | Public | Show game details (including name, publisher, price, image, description, …) and some recommended games with the same categories. |
| 7 | About us | Public | Show information of the team. |
| 8 | User profile | User | Show user profile. There are also options for user to edit their information, change password and view transaction history. |
| 9 | Transaction history | User | Show user transaction history. Each transaction includes the amount of money, date, … |
| 10 | Change password | User | Allows user to change their account’s password. User must input old password and then their new password and confirm it. |
| 11 | Edit personal information | User | Allows user to change their information. User will input new information and submit. Then the system will change it for them. |
| 12 | Payment | User | Allow user to add money to the account. User must choose payment method and input the money they want to add. There is also a option to withdraw money and a request to refund money to the admin. |
| 13 | Personal games | User | User can view their game lists including bought-game list and self-upload game list. |
| 14 | Register to be a game developer | User | User can request admin to make him/her become a game developer. |
| 15 | Upload game | User | User can upload their own game. They will show their games and input the game’s information. But the game will be uploaded if it is approved by the admin. |
| 16 | Update game | User | User can update their uploaded games information (price, description, …) or update a new version of the game. |
| 17 | Manage user | Admin | * Admin can search for users by input name in the box on the top of the page. * Admin can view the lists of top ten users sort by having the most income, most active, … |
| 18 | User details | Admin | Admin can see their information, their account balance, their activities, their uploaded and downloaded games. |
| 19 | Manage game | Admin | * Admin can search for games by input name in the box on the top of the page. * Admin can view the lists of top ten games sort by having the most income, most downloaded, newest, … |
| 20 | Game details | Admin | * Admin can view game detail information * View the game’s income, downloads, rate, comments, … * Admin can also delete the game if the game violated the rule. |
| 21 | Manage request | Admin | Admin can view list of the requests. |
| 22 | Request details | Admin | Admin can view request details. They can delete it, accept it and response it. |
| 23 | Response request | Admin | Admin can fill a form and the form will be sent to the requested email. |
| 24 | Manage website | Admin | Admin can view the income of the web, the details of the income. |
| 25 | Ads | Admin | Update soon |

#### c. User Authorization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen** | **Guest** | **Customer** | **Developer** | **Admin** |
| Login |  | X | X | X |
| Sign up | X |  |  |  |
| Forget password |  | X | X | X |
| Home page | X | X | X | X |
| * Search games | X | X | X | X |
| * View recommended games | X | X | X | X |
| Game lists | X | X | X | X |
| Game details | X | X | X | X |
| * Buy game |  | X | X |  |
| * Leave comment |  | X | X |  |
| * Rate |  | X | X |  |
| * Report |  | X | X |  |
| * View game information | X | X | X | X |
| About us | X | X | X | X |
| User profile |  | X | X |  |
| Transaction history |  | X | X |  |
| Edit profile |  | X | X | X |
| Change password |  | X | X | X |
| Payment |  | X | X |  |
| * Loading money to the account |  | X | X |  |
| * Request refunding |  | X | X |  |
| Personal games |  | X | X |  |
| * View games income |  |  | X |  |
| * Edit game’s information |  |  | X |  |
| Register to become a game developer |  | X |  |  |
| Upload game |  |  | X |  |
| Update game |  |  | X |  |
| Manage user |  |  |  | X |
| * Search user |  |  |  | X |
| * View sorted user list |  |  |  | X |
| User details |  |  |  | X |
| * View user information |  |  |  | X |
| * Send message to user |  |  |  | X |
| * View user’s game list |  |  |  | X |
| Manage game |  |  |  | X |
| * Search game |  |  |  | X |
| * View sorted game list |  |  |  | X |
| Game details |  |  |  | X |
| * View game information |  |  |  | X |
| * View game’s income |  |  |  | X |
| * Delete game |  |  |  | X |
| Manage request |  |  |  | X |
| * View sorted request list |  |  |  | X |
| Request details |  |  |  | X |
| * View request details |  |  |  | X |
| * Delete request |  |  |  | X |
| Response request |  |  |  | X |
| Manage website |  |  |  | X |
| * View website income |  |  |  | X |
| Ads |  |  |  | X |

In which:

* Guest: unregistered users.
* User: registered users who can purchase items online and interact with them(rate, comment,…)
* Publisher: registered users who sell their games to the customers.
* Admin: the system administrator.

#### d. Non-Screen Functions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **System Function** | **Description** |
| 1 | User authorization | Authorization | Implementation of authorization mechanism in the system, including the specify the role of the logged-in user, his/her authorized page links displayed items menu and preventing unauthorized access via entering the links directly |
| 2 | Easy to use | Provide smooth flow, friendly UI | User don’t have to think about how this function works. We can achieve this by building comprehensive flow and designing user-friendly UI. |

## 3. Entity Relationship Diagram

## 

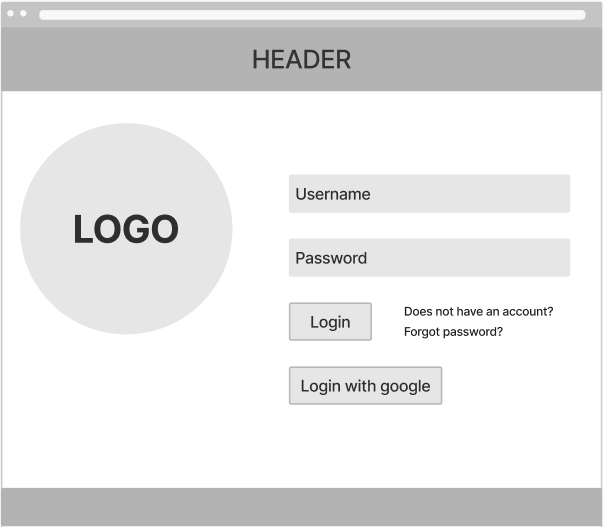
Figure 3.1: Entity–relationship model diagram

**Entities Description**

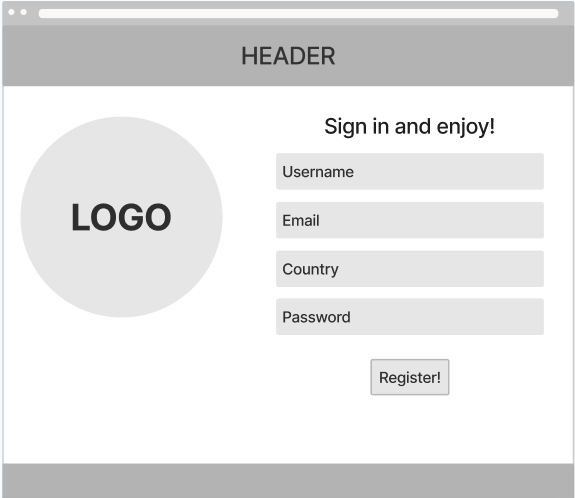
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| --- | --- | --- |
| **#** | **Entity** | **Description** |
| 1 | User | The person that uses the website (buy games, upload their own games, …) |
| 2 | Admin | The person who acts as the system administrator. |
| 3 | Account | Including username and password, used to login. Only user with an account can buy, rate, … games and have other interactions. |
| 4 | Game | Is the main reason for people to visit the website and for the existence of this website 😉 |
| 5 | GameCategory | Each game has some categories. For example, The Walking Dead is tagged as Horror, Action, Adventure. |
| 6 | Request | Request from user to admin. They can be Game-upload request, Game-update request, … |
| 7 | Notification | Is the way the website notify user. |
| 8 | Payment | Consist of all things related to user’s money $\_$ |

# II. Functional Requirements

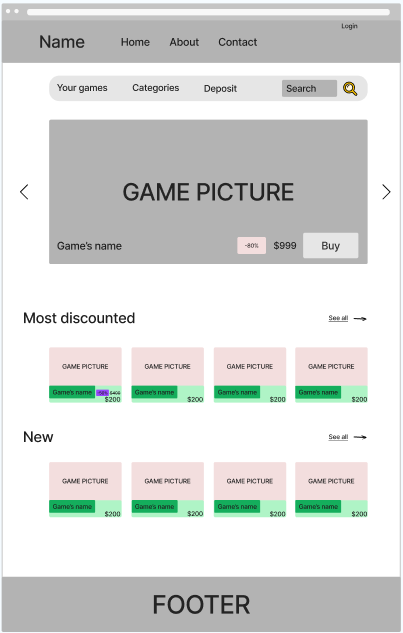
1. Common feature
2. User login



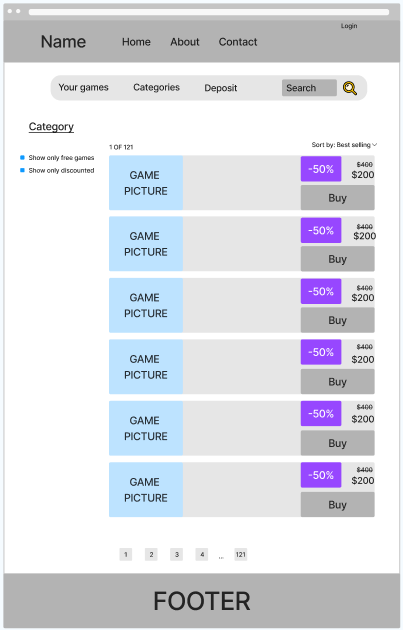
1. Register account



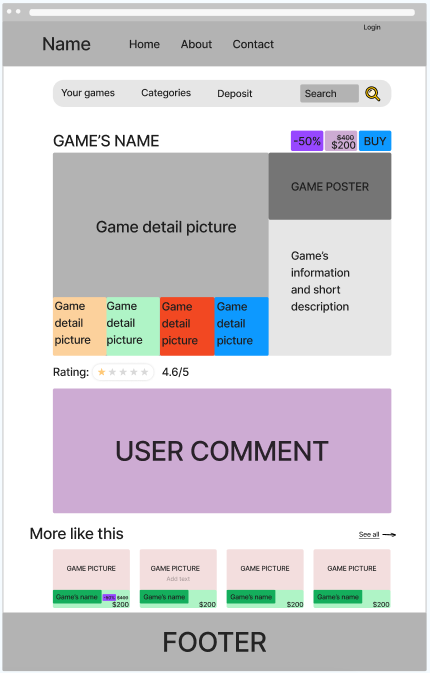
1. Public feature
2. Home page



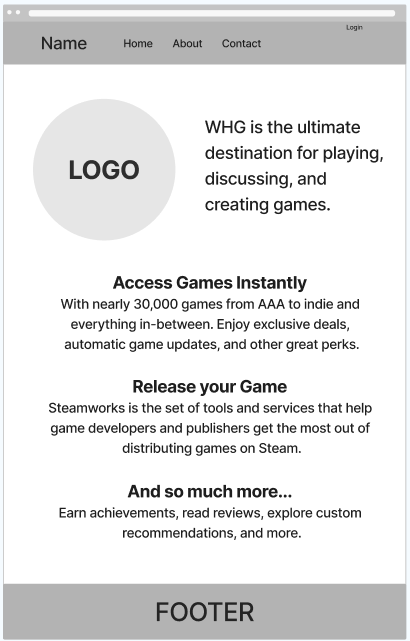
1. Game lists



1. Game details



1. About us



1. Admin feature
2. Main dashboard
3. Game lists
4. Game details
5. User lists
6. User details
7. Request lists
8. Request details
9. Response request
10. Website manager
11. User feature
12. User profile
13. Edit profile
14. Change password
15. Transaction history
16. Payment
17. Personal games
18. Register to become a game developer
19. Upload games
20. Update games