FPT ACADEMY INTERNATIONAL

FPT – APTECH COMPUTER EDUCATION

Box Game

Supervisor: *LÊ THANH NHÂN*

Semester: *II*

Batch No: *T1.2112.E0*

Group No: *IV*

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***Month**: October **Year**: 2022*

This is to certify that

Mr. **Nguyễn Tuấn Lộc**

Mr. **Nguyễn Gia Bảo**

Mr. **Nguyễn Phước Hoàn**

Mr. **Nguyễn Lê Thanh Tùng**

Mr. **Nguyễn Công Hùng**

Have successfully Designed & Developed

Submitted by:

Mr. LE THANH NHAN

Date Of Issue:

Authorized Signature:

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Acknowledge

In the process of graduation, we have received a lot of help, suggestions, and enthusiastic advice from our teachers, family and friends. We sincerely thank Aptech Education for bringing the experience as well as practical skills in the project to bring us.

We would like to thank Mr Le Thanh Nhan, a teacher of FPT Aptech for always being dedicated and professional. Without the knowledge and experience of her superior, this project will not succeed.

And we sincerely thank the families of our team members for their great enthusiasm and support during the project.

This project is also successful thanks to the cooperation of the team members. Thank you.

Synposis

Box Game is a online store that deals with all types of game. They started off with a company in collaboration with Ubisoft and then build up their own establishment. They have different game from different developer, special sale and promotion around the year. Many times people emails us in the website for getting the information as:

1. Minimum system requriements for specific game ?

2. Sale details ?

3. Price list for the games ?

4. What about the refund of the game?

And many more like these. You are supposed to create a website for them with the below mentioned requirement specifications: The website is to be developed to provide certain features according to specific requirements by the management. The website is to be developed for the Windows Platform using PHP, Laravel Framework, MySQL. The site should work well in all leading browsers including Chrome, IE, Firefox etc.

Review 01

Problem Definition

I. Introduction

The development of Information Technology and Internet help users access information, communication, transaction or shopping are so easily. With the rise of technology, Electronic Commerce has become a way to carry out the business transactions faster, more convenient, reduce cost for maintenance and employees.

With the price increasement of products with the technology development, we bring to the customer a competitive environment to get the product with lowest price.

II. Main Functions

- Visitor can view, order game after registering and logging in to the website. The product will be ship immediately through user email.
- User can view all game as well as submit game reviews, edit profiles.
- Store admins manage the game and orders.

Customer Requirements Specifications

I. Customer's Specific Requirements

The website allow user register and login to become member, which can use all the function of the website like review product, pay for the order online.

II. Functional Requirements

User:

- Input:
  - Register information of users
  - Purchase information
  - Send feedback
- Process:
  - Check register information
  - Find products information
  - Create orders
  - Save feedback
- Output:
  - Successfully registered notification
  - Cart information
  - Successfully send feedback notification

Admin:

- Input:
  - Login information of admin account
  - Add/update products request
  - Add/update category
  - View/delete user account request
- Process:

- Check login information of admin account
- Add/update products
- Add/update category
- Add/update system requirements

• Output:

- Successfully login notification
- Successfully add/update products
- Successfully add/update brands
- Successfully add/update/delete user account

System Requirement Specification

Hardware:	Software:
Server: - Pentium 4, 1.8 GHz or better - 512 MB of RAM - 300 MB of HDD capacities available Client: - Pentium III, 500 MHz - 265 MB of RAM	Server: - OS with Windows XP SP2 - IE 5.0/Netscape 6.0 - MySQL Server 2008 or later Client: - IE 5.0/Netscape 6.0

Development Software

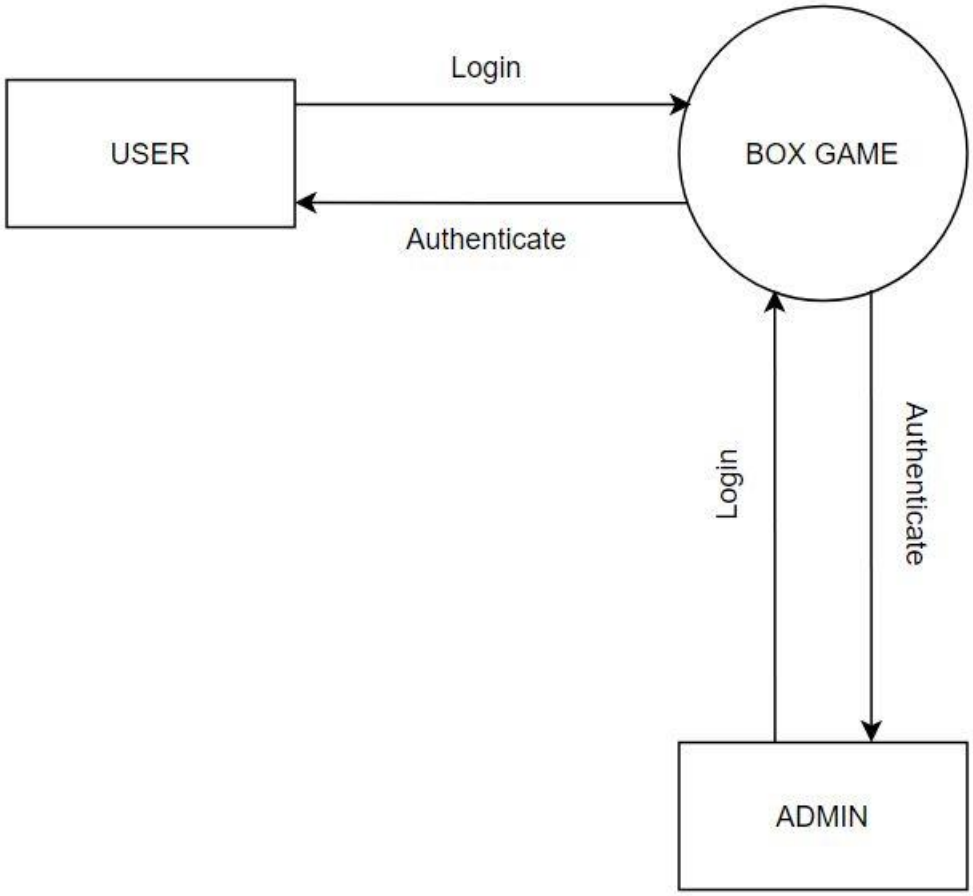
- Microsoft Windows 10
- Visual Studio Code
- MySQL
- Google Chrome

Technology

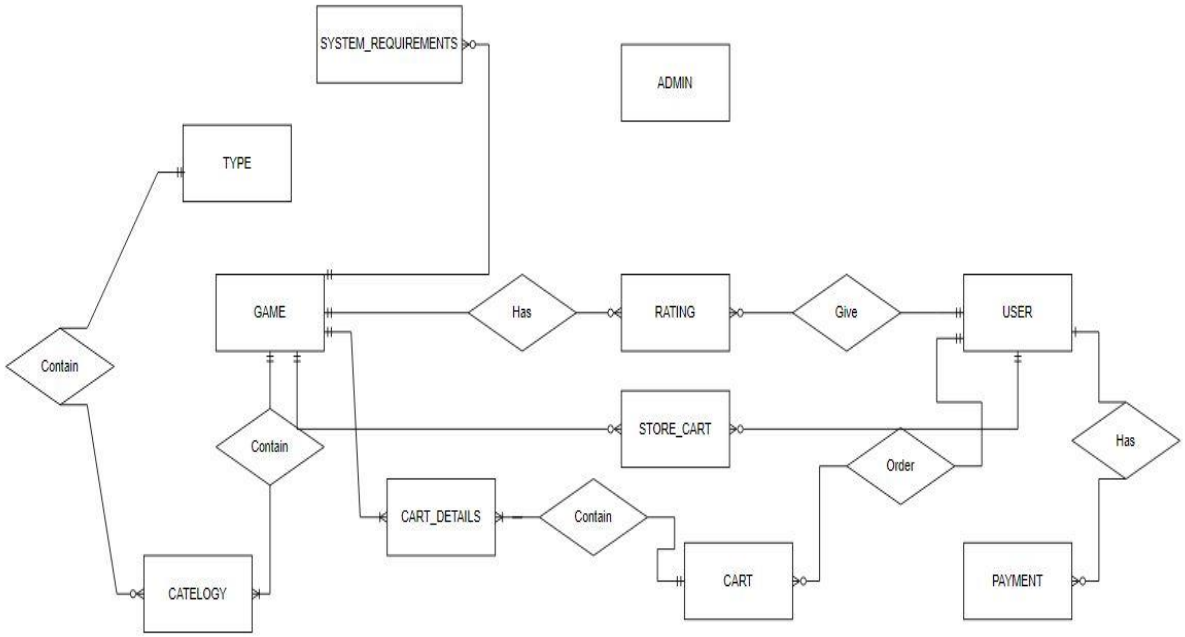
- *PHP 8.2*
- *Laravel Framework 9.2*

Review 02

Data Flow Diagram

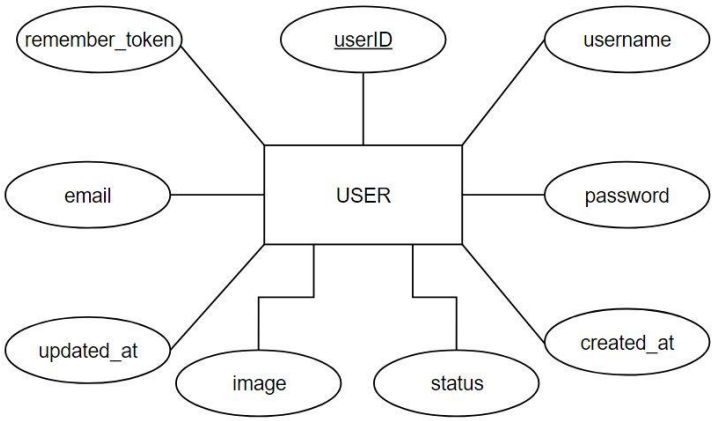


A. Entity Relationship Diagram

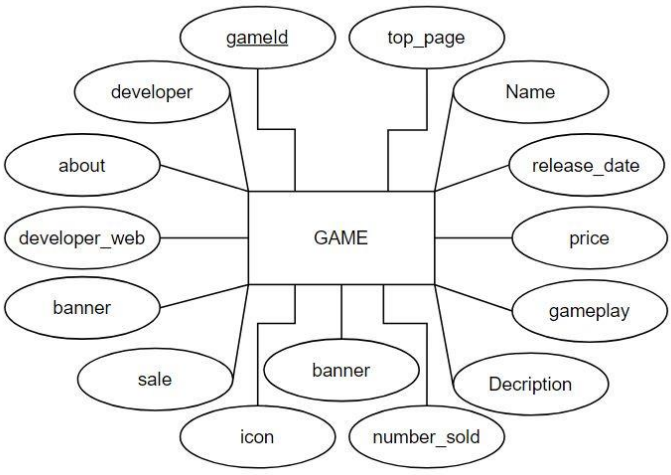


B. Entity Attributes

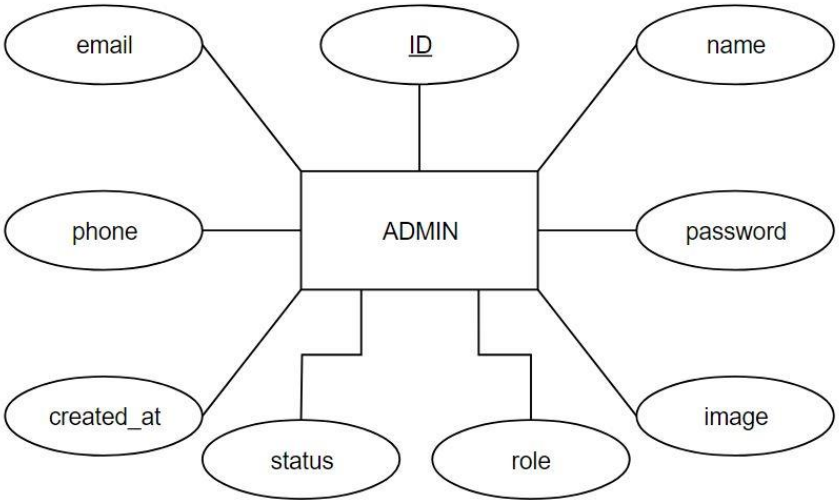
I. USER



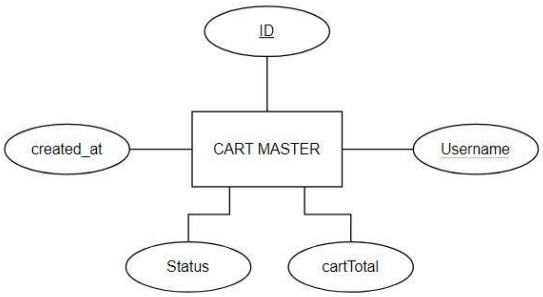
II. GAME

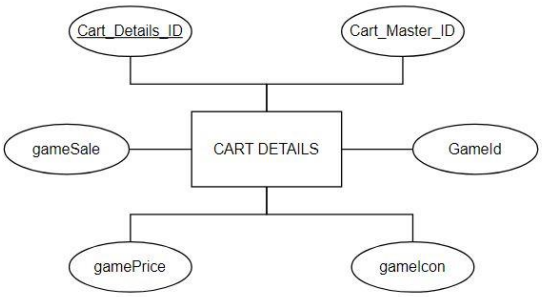


III. ADMIN

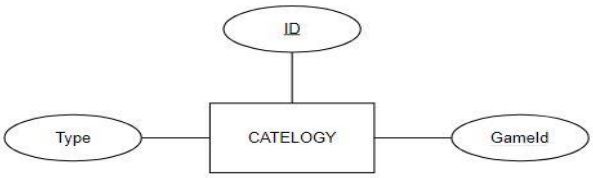


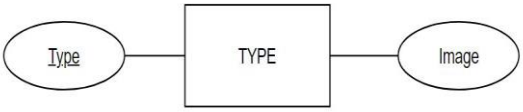
IV. CART MASTER AND DETAILS



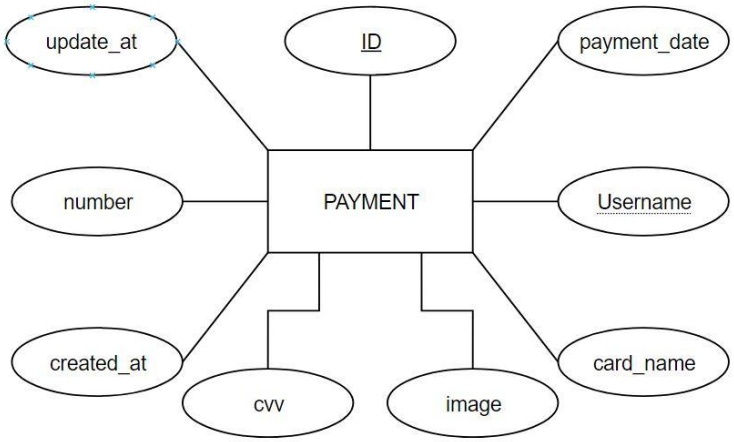


V. CATELOGY AND TYPE

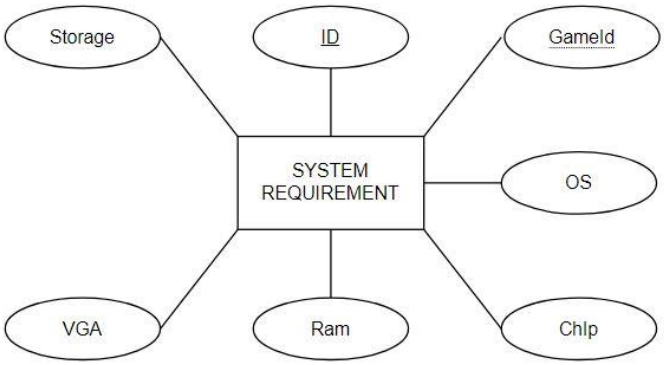




VI. PAYMENT



VII. SYSTEM REQUIREMENTS



VIII. STORE CART

C. Table Design

I. ACCOUNT_ADMIN

No.	Column Name	Data Type	Keys	Constraints	Description
1	adminId	varchar(255)	Primary key	not null	login id
2	name	varchar(255)		not null	display name
3	email	varchar(255)		not null	
4	password	varchar(255)		not null	
5	role	varchar(255)		not nul	
6	status	bit		not null	active or not
7	image	varchar(255)		not null	
8	phone	int			
9	create_at	timestamp		current_timestamp	
10	update_at	timestamp		current_timestamp	

II. USERS

No.	Column Name	Data Type	Keys	Constraints	Description
1	userID	varchar(255)	Primary key	not null	login id
2	username	varchar(255)		not null	display name
3	email	varchar(255)		not null	
4	password	varchar(255)		not null	
5	status	bit		not null	active or not
6	remember_token	varchar(100)		not null	
7	image	varchar(255)			
8	create_at	timestamp		current_timestamp	
9	update_at	timestamp		current_timestamp	

III. GAME

No.	Column Name	Data Type	Keys	Constraints	Description
1	gameId	int	Primary key	not null	
2	name	varchar(255)		not null	display name
3	description	varchar(1000)		not null	
4	gameplay	varchar(100)		not null	gameplay image
5	icon	varchar(255)		not null	game icon
6	release_date	datetime		not null	
7	developer	varchar(255)		not null	
8	developer_web	varchar(255)			
9	create_at	timestamp		current_timestamp	
10	sale	int		default 0	
11	about	varchar(2000)			
12	number_sold	int(100)			
13	top_page	bit(1)		default 0	for display on top main page
14	banner	varchar(255)		not null	game banner
15	most_played	bit(1)		default 0	

IV. RATING

No.	Column Name	Data Type	Keys	Constraints	Description
1	gameId	int	Primary key, Foreign Key	not null	
2	userId	varchar(255)	Primary key, Foreign Key	not null	
3	star	int		not null	rating star
4	message	varchar(1000)			comment
5	create_at	timestamp		current_timestamp	

V. PAYMENT

No.	Column Name	Data Type	Keys	Constraints	Description
1	cardId	int	Primary key	not null	
2	userID	varchar(255)	Foreign Key	not null	

3	number	int		not null	card number
4	cvv	int(3)		not null	security number
5	payment_date	datetime		not null	expired date
6	card_name	varchar(255)		not null	
7	image	varchat(255)		not null	
8	updated_at	timestamp		current_timestamp()	
9	created_at	timestamp		current_timestamp()	

VI. CATEGORY

No.	Column Name	Data Type	Keys	Constraints	Description
1	categoryId	int	Primary key	not null	
2	gameId	int	Foreign Key	not null	
3	type	varchar(255)	Foreign Key	not null	game type

VII. CART MASTER

No.	Column Name	Data Type	Keys	Constraints	Description
1	cartId	int	Primary key	not null	
2	userId	varchar(255)	Foreign Key	not null	
3	status	bit			check if cart paid or not
4	cartTotal	float		default 0	
5	created_at	timestamp		current_timestamp()	

VIII. CART DETAILS

No.	Column Name	Data Type	Keys	Constraints	Description
1	cart_details_id	int	Primary key	not null	
2	gameId	varchar(255)	Foreign Key	not null	

3	cartId	varchar(255)	Foreign Key	not null	
4	gameSale	int		not null	
5	gamePrice	float		not null	
6	gameIcon	varchar(255)		not null	

IX. SYSTEM REQUIREMENTS

No.	Column Name	Data Type	Keys	Constraints	Description
1	sysId	int	Primary key	not null	
2	gameId	varchar(255)	Foreign Key	not null	
3	os	varchar(255)		not null	OS system
4	storage	varchar(255)		not null	
5	chip	varchar(255)		not null	chipset
6	graphic	varchar(255)		not null	vga

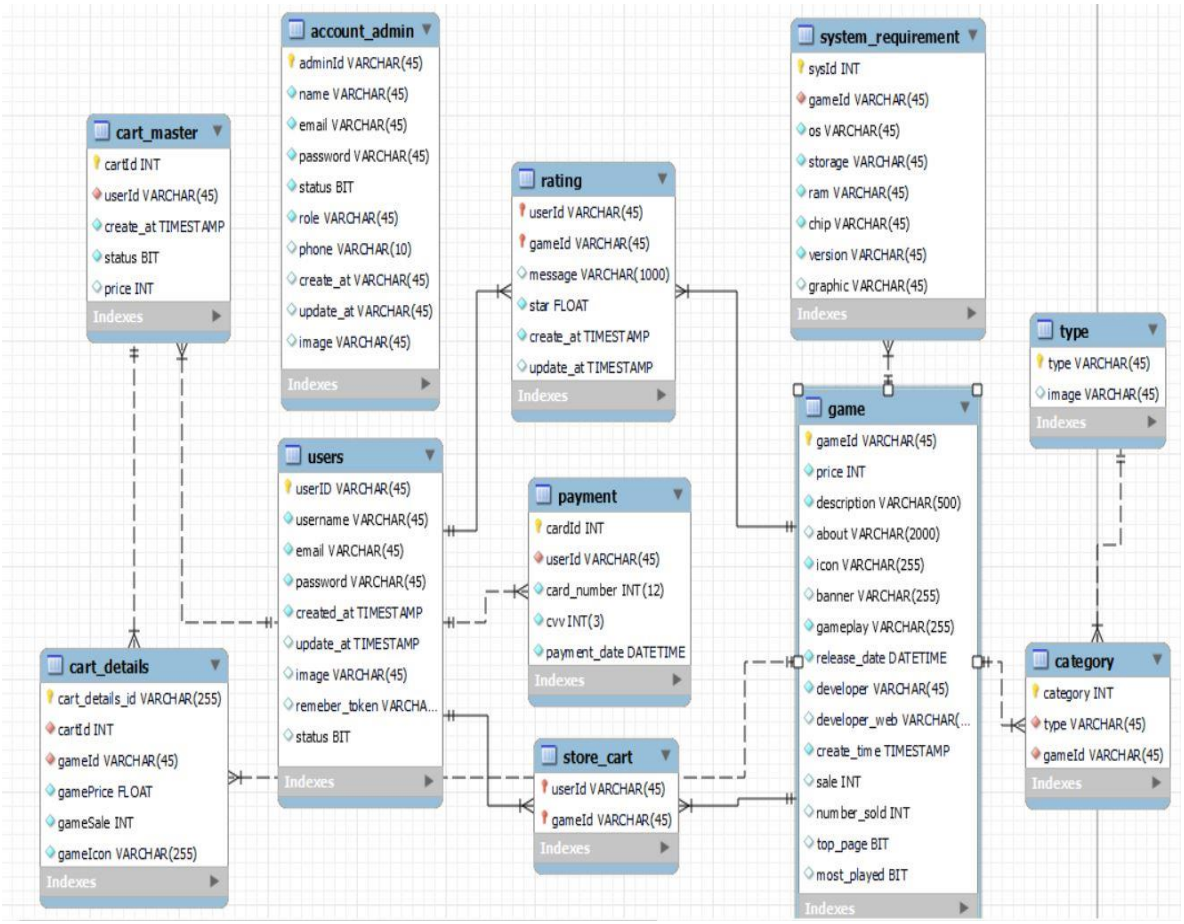
X. TYPE

No.	Column Name	Data Type	Keys	Constraints	Description
1	type	varchar(255)	Primary key	not null	
2	image	varchar(255)			

XI. STORE CART

No.	Column Name	Data Type	Keys	Constraints	Description
1	userID	varchar(255)	Primary key	not null	
2	gameId	varchar(45)	Primary key	not null	

D. Relationship Diagram



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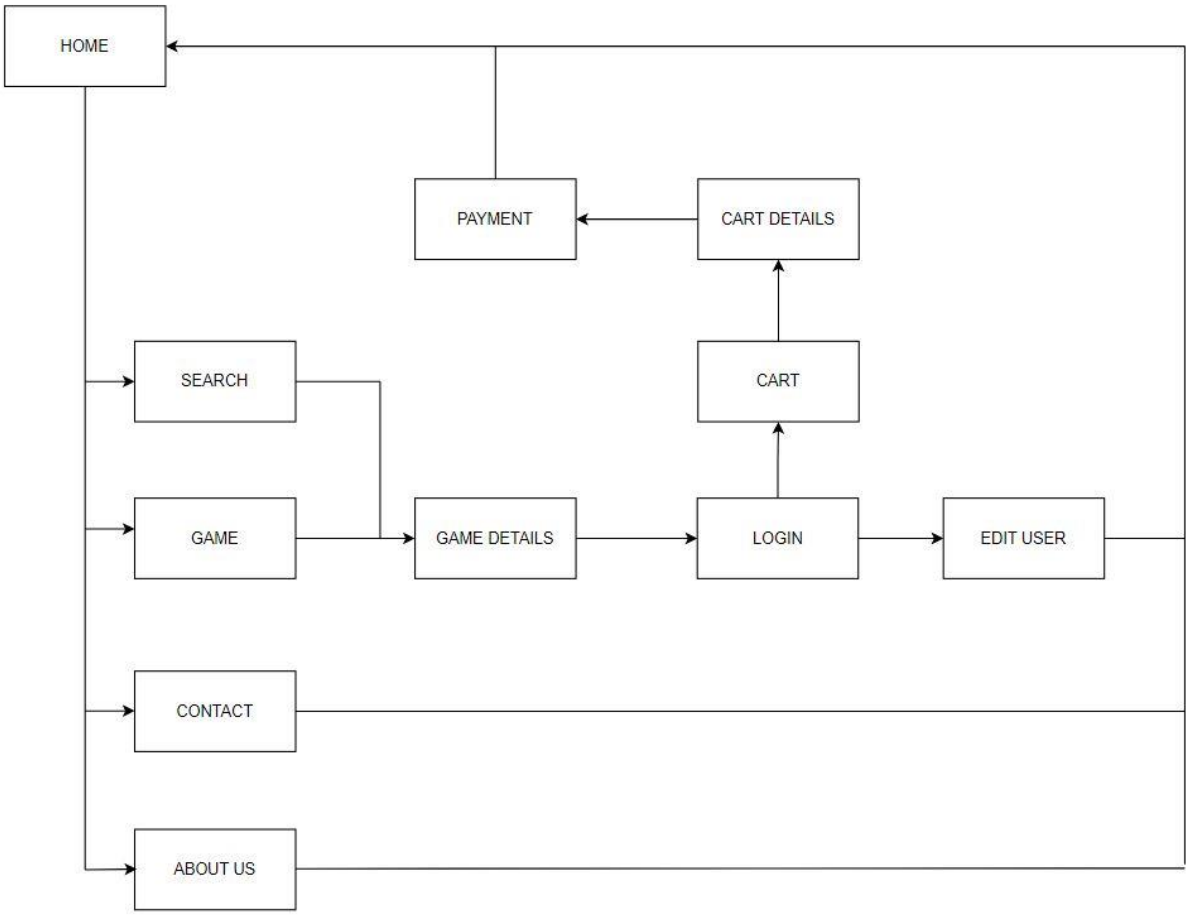
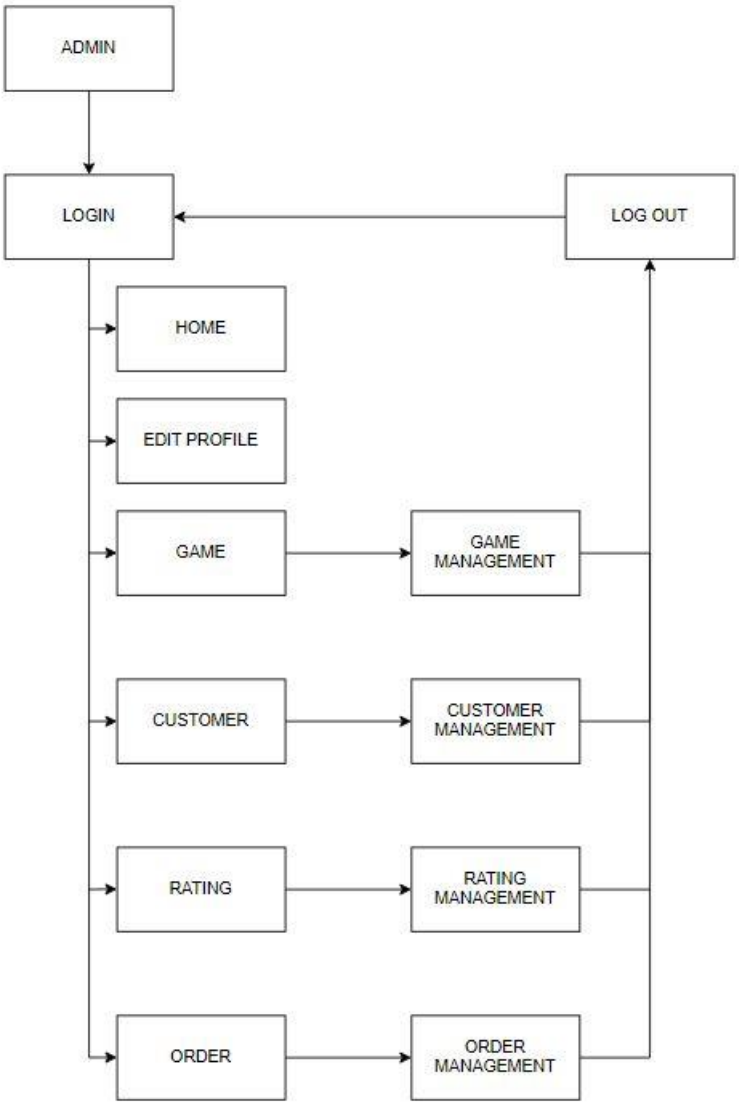
	Project Group No:	LE THANH NHAN
Signature		
Date		

Site Map

I. USER

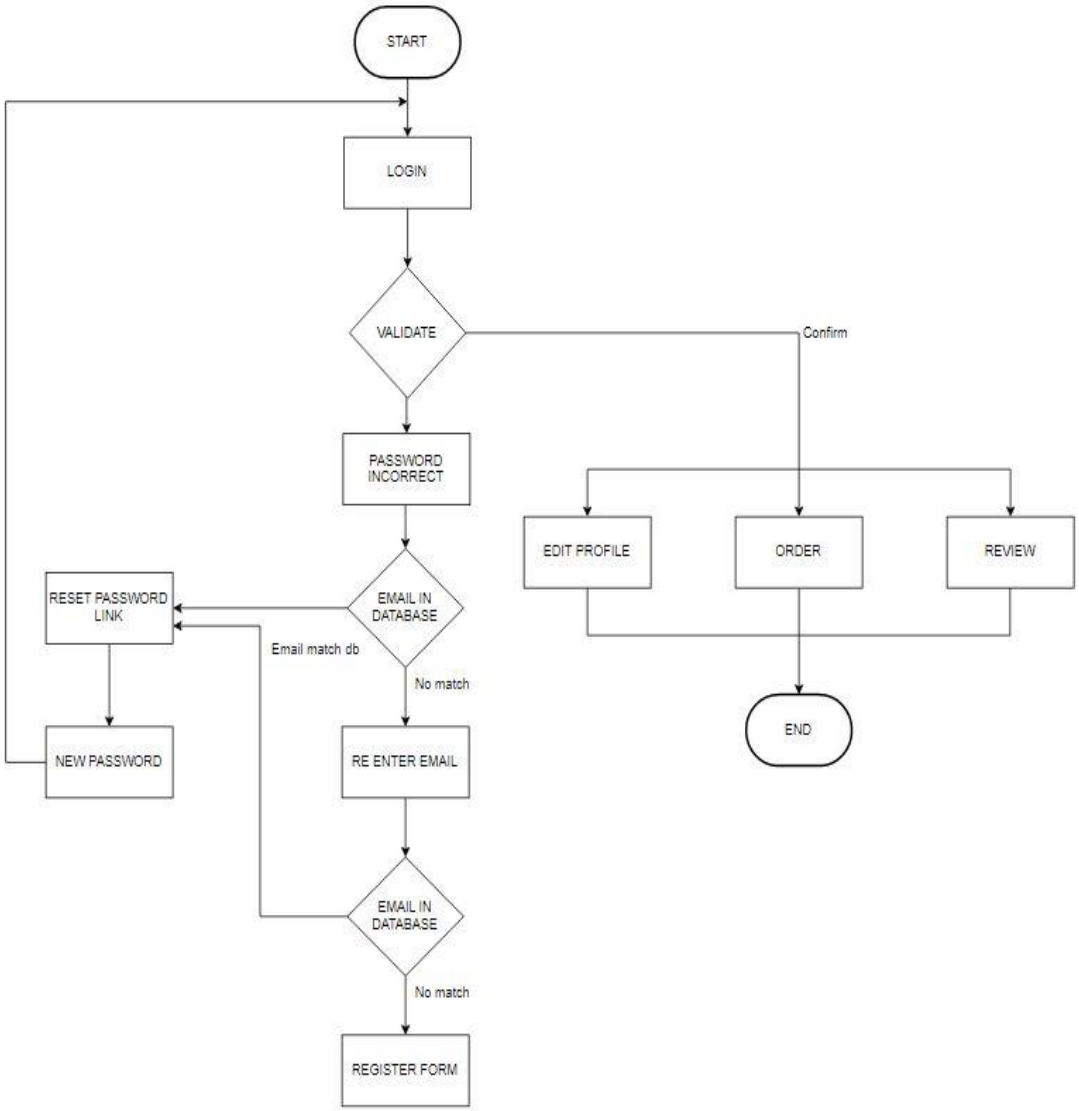


II. ADMIN


ADMIN
LOGIN
LOG OUT
HOME
EDIT PROFILE
GAME
GAME MANAGEMENT
CUSTOMER
CUSTOMER MANAGEMENT
RATING
RATING MANAGEMENT
ORDER
ORDER MANAGEMENT

Algorithm

I. USER



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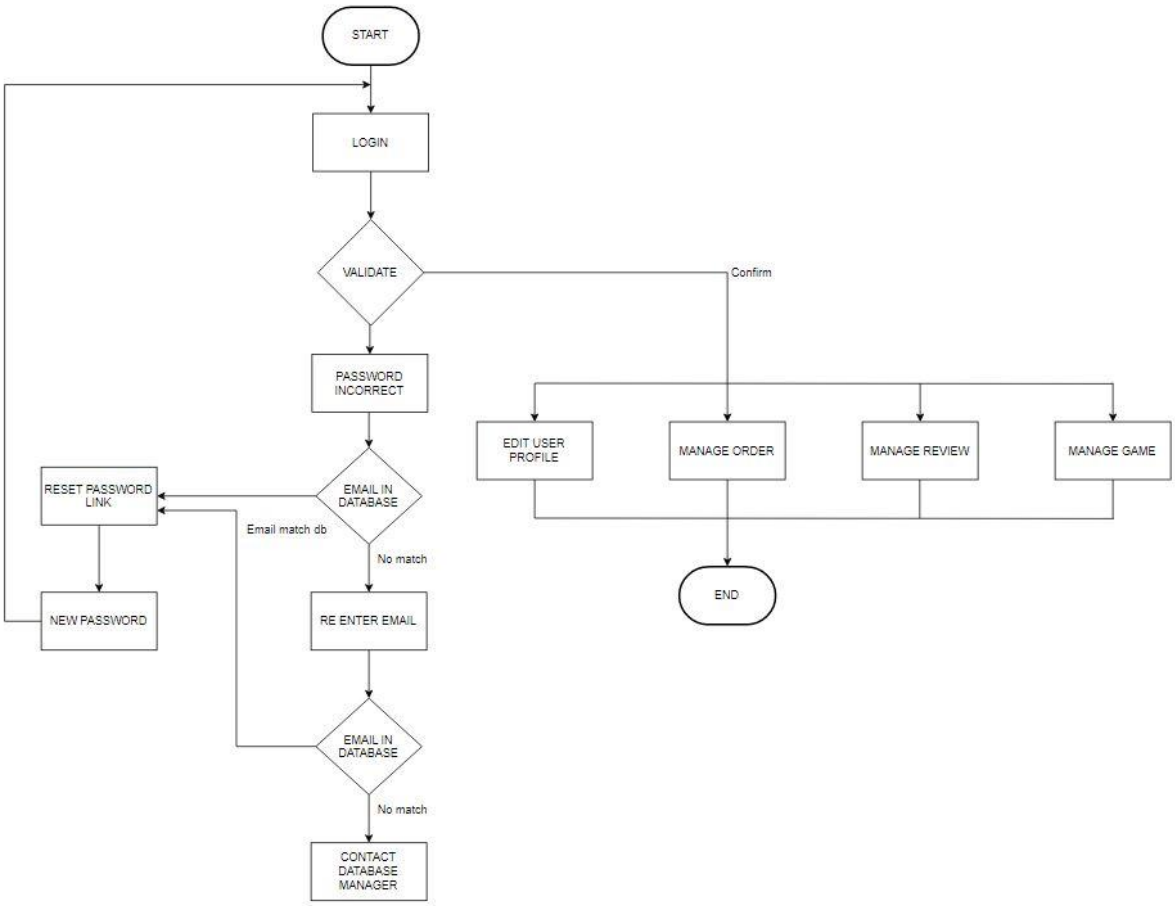
	Project Group No:	LE THANH NHAN
Signature		
Date		

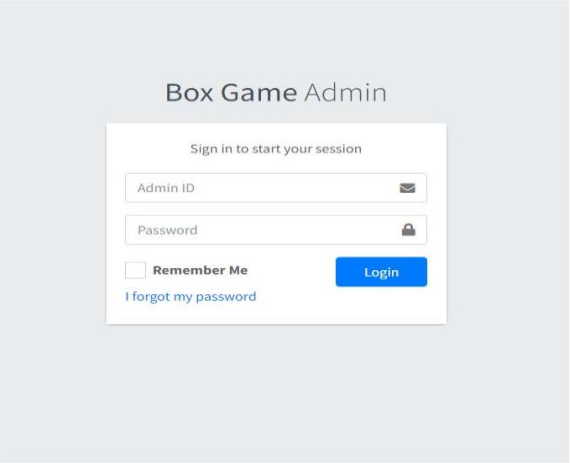
II. ADMIN


START
LOGIN
VALIDATE
Confirm
PASSWORD INCORRECT
EDIT USER PROFILE
MANAGE ORDER
MANAGE REVIEW
MANAGE GAME
RESET PASSWORD LINK
EMAIL IN DATABASE
Email match db
No match
END
NEW PASSWORD
RE ENTER EMAIL
EMAIL IN DATABASE
No match
CONTACT DATABASE MANAGER

Review 03

Screen shots

XII. Login Page:

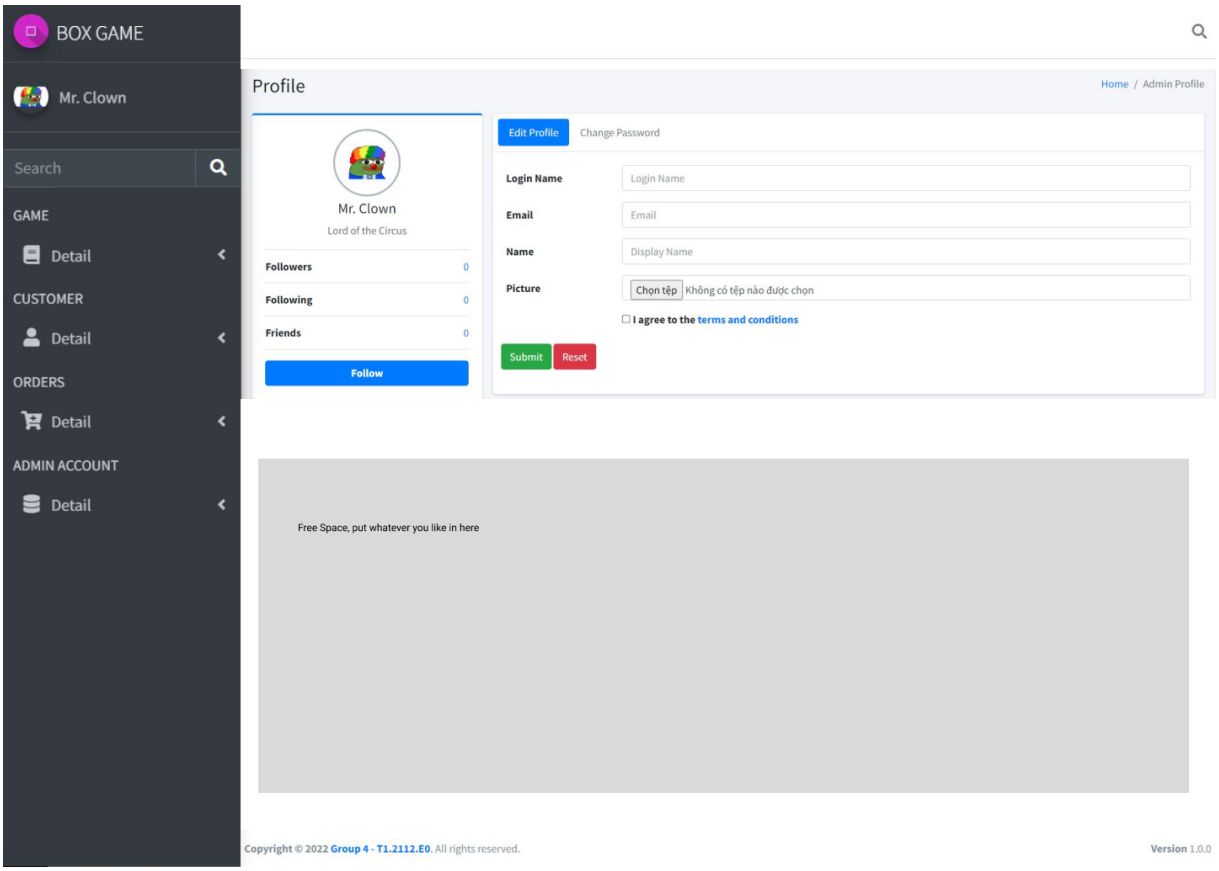


Description : Login for Admin

From : From start page with /admin

To : Admin Front Page

XIII. Admin Front Page

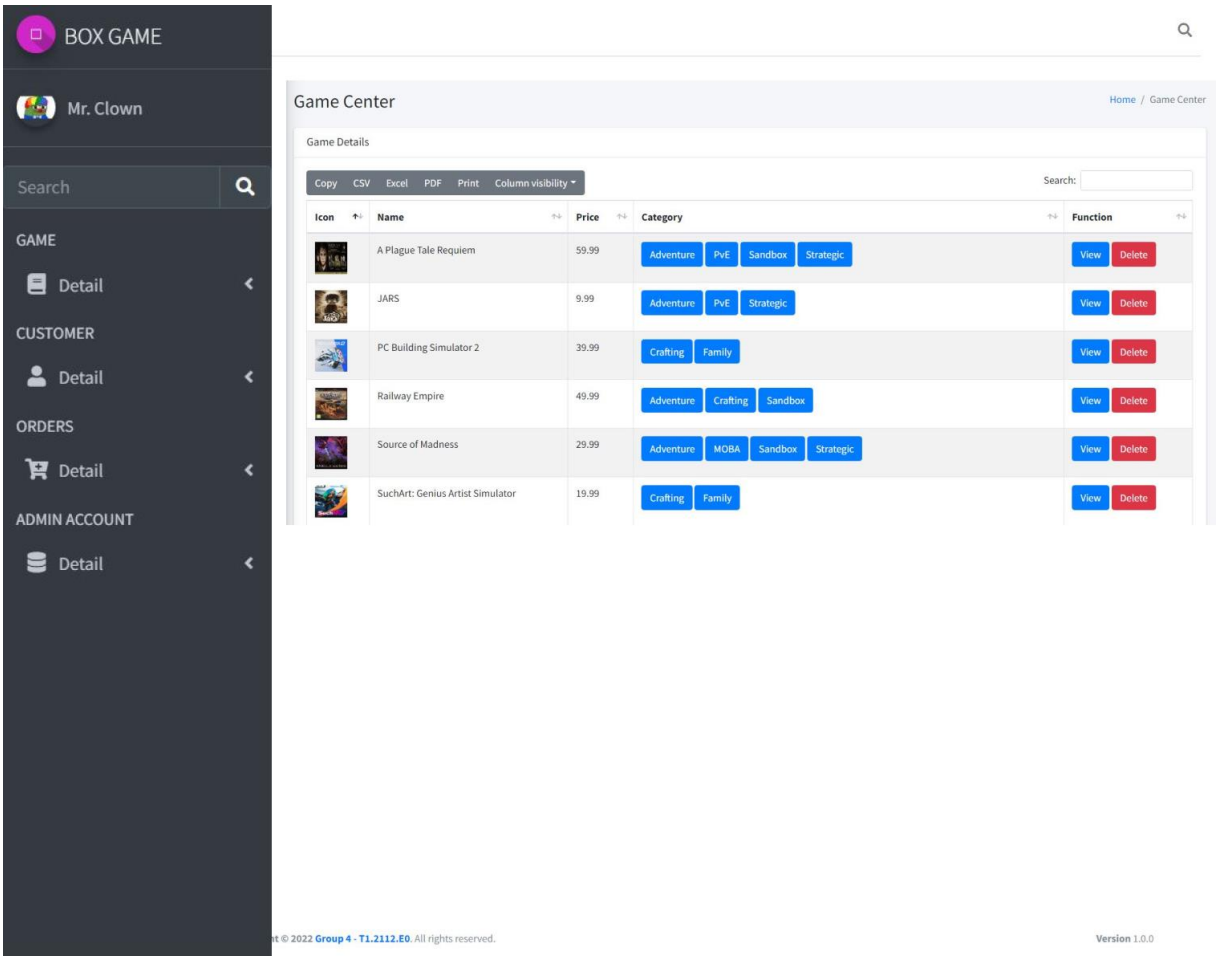


Description : Login Front Page

From : After login successfully

To : Game, User, Orders management, edit admin own profile or password through forms in the front page

XIV. Admin All Game

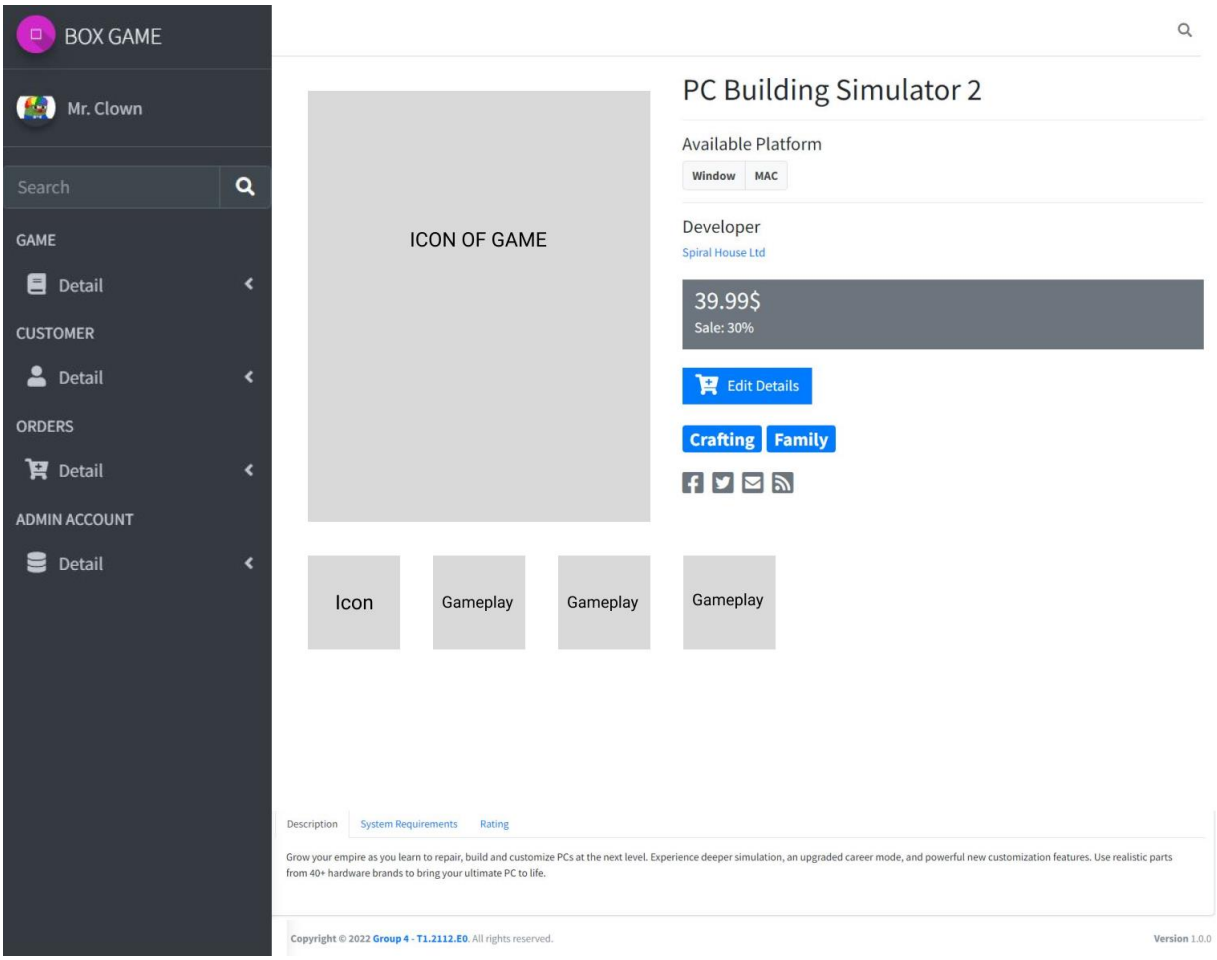


Description : Admin view all game in database

From : Side Bar

To : View detail game, delete game

XV. Admin Edit Game

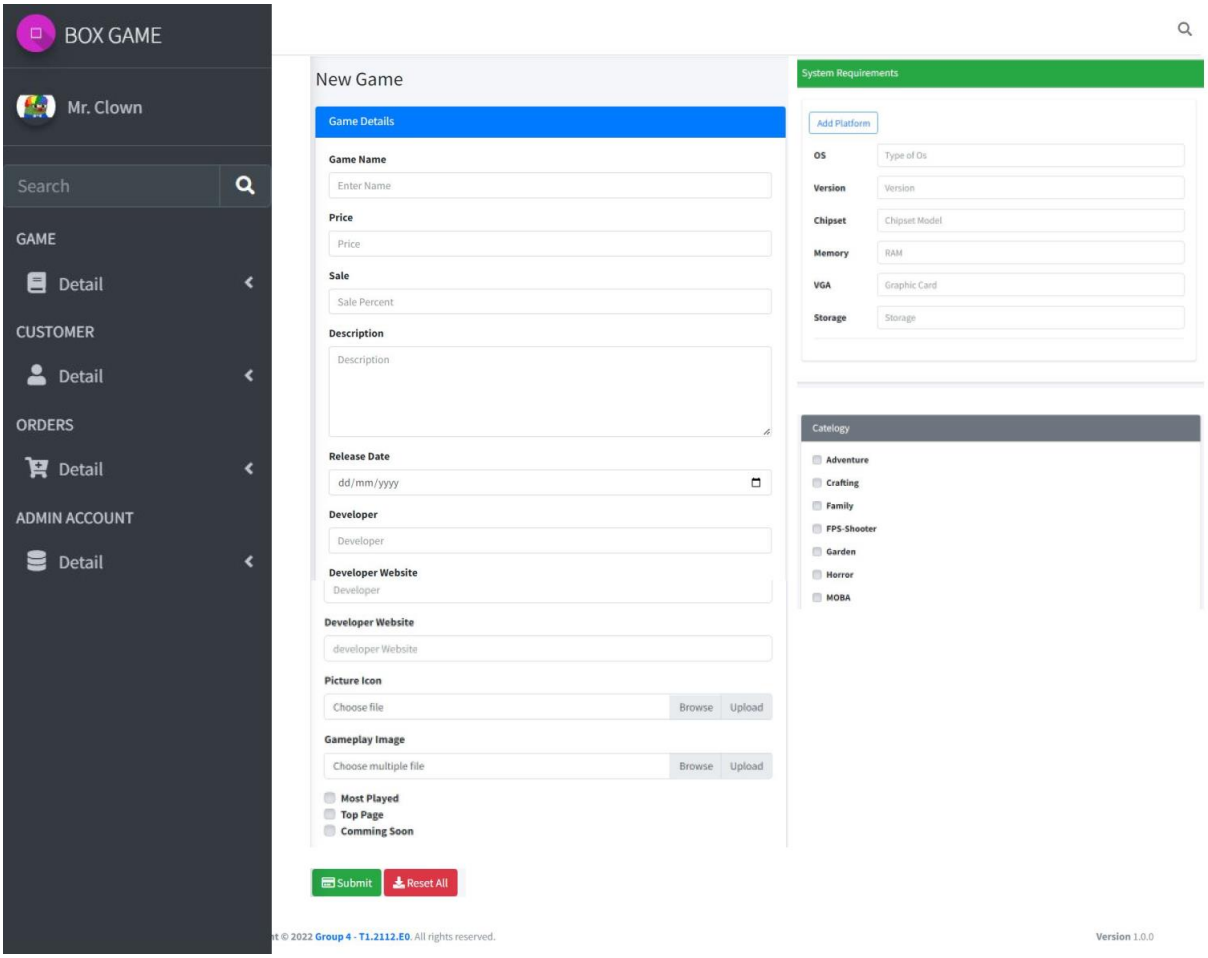


Description : Detail of game

From : View all game, after click view button

To : Edit game, system requirement, category, return home

XVI. Admin Add Game



Description : Add new game to database

From : Side bar, game section

To : After submit form, if success return to detail page of new game, or return to create game form with error message

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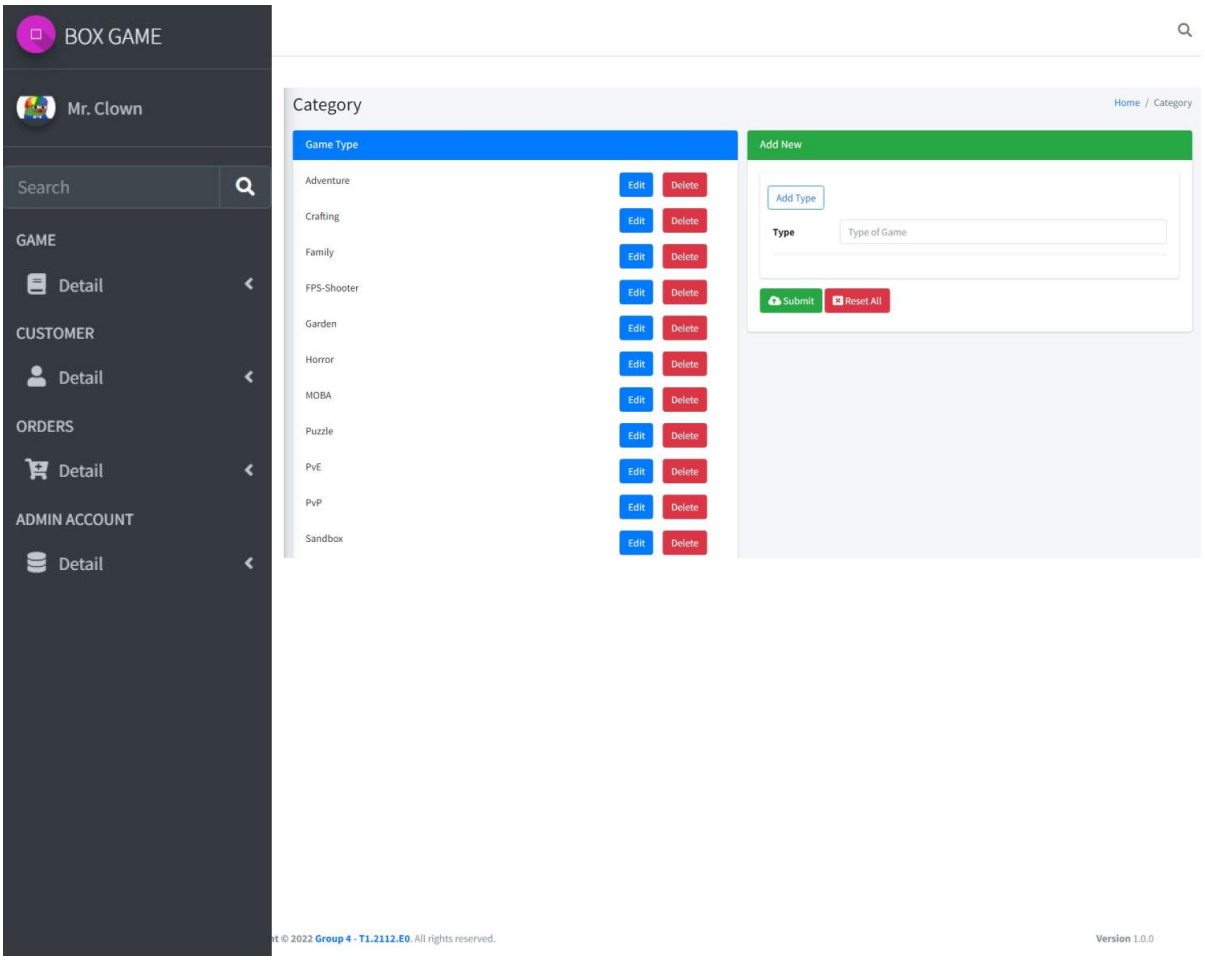
Date		

XVII. Admin Edit Category

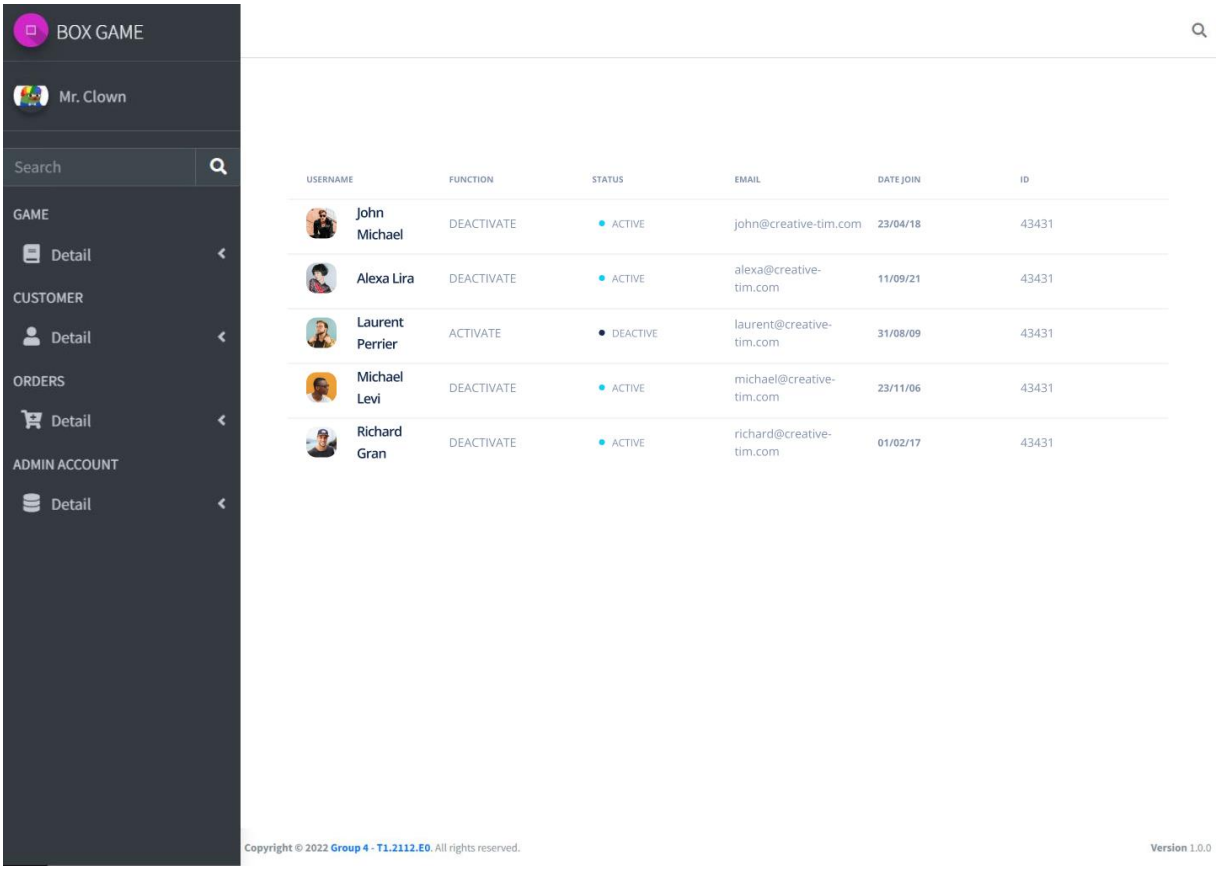


Description : Category

From : Side bar, game section

To : Edit type or add new, or return admin front page

XVIII. Admin User Management

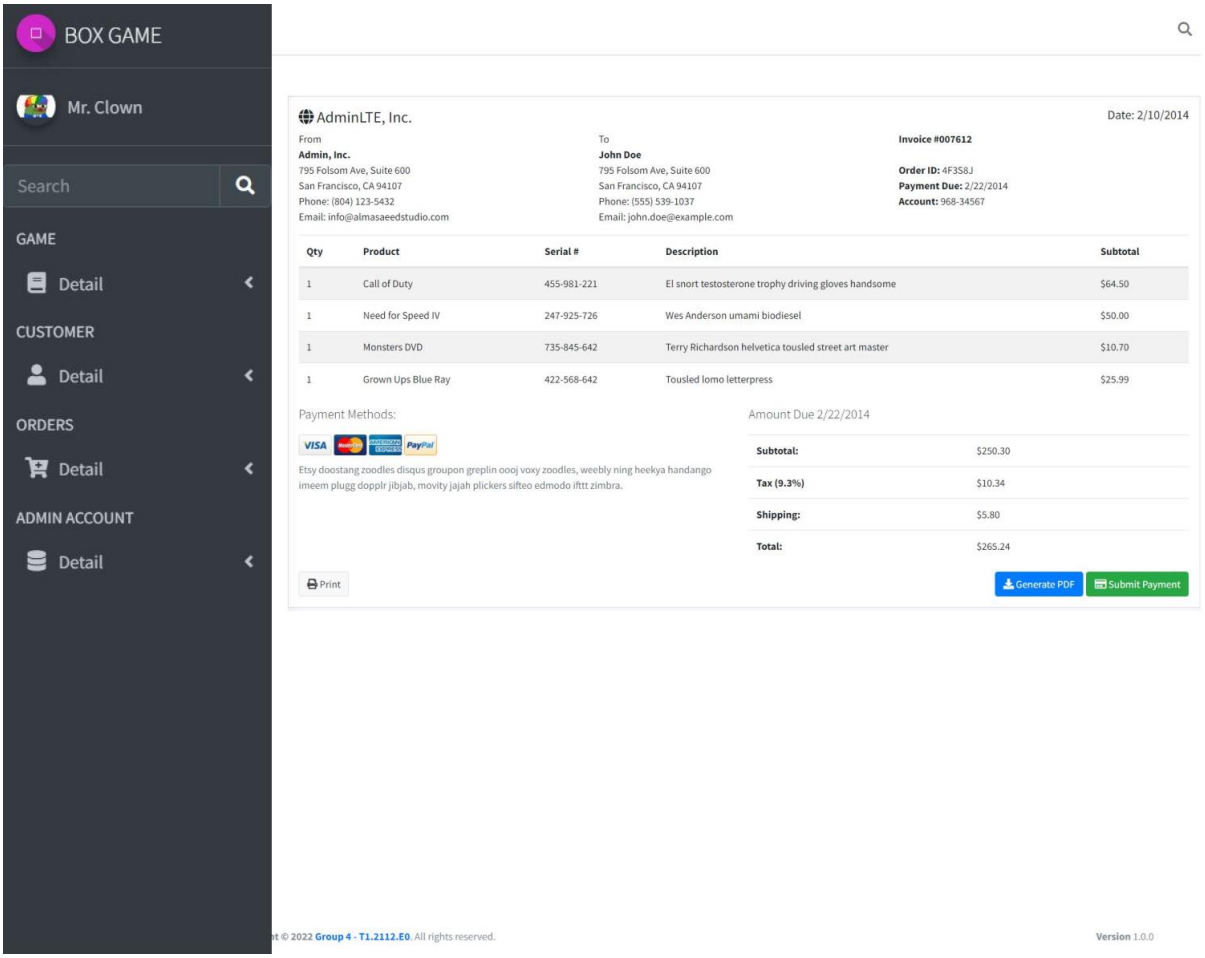


Description : Admin view all user

From : Side bar, user section

To : Return home or edit user status

XIX. Admin Order Details

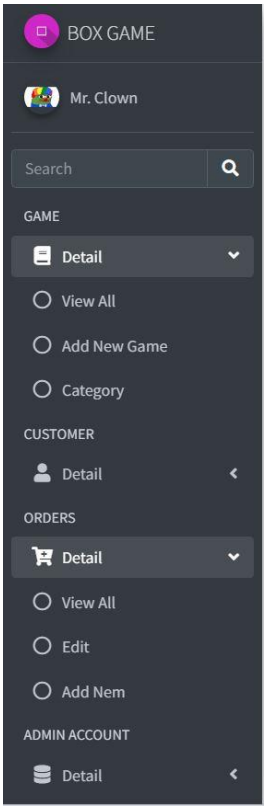


Description : Orders detail of user

From : Side bar, order section

To : Print invoice, send to email or return home

XX. NavBar Details

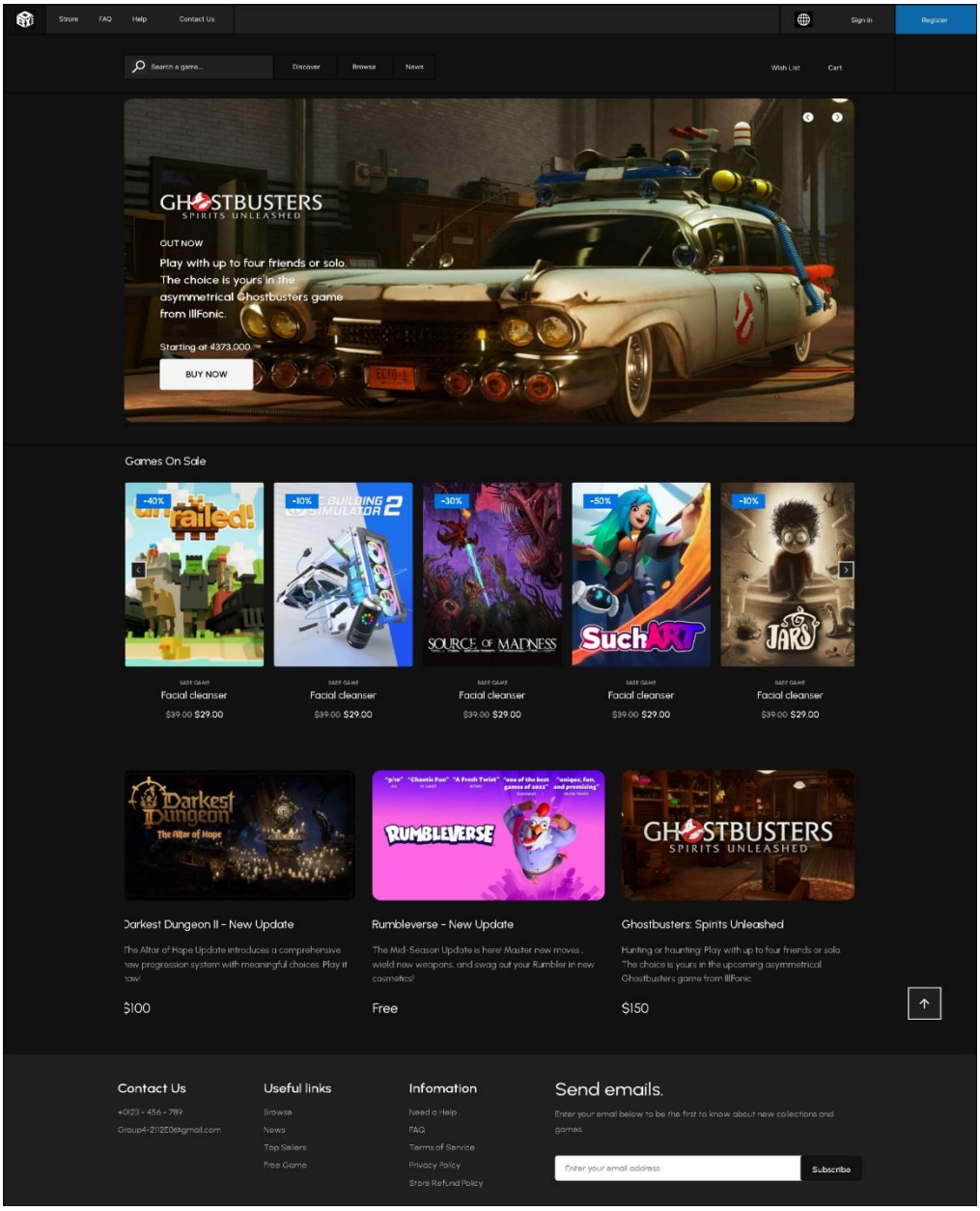


Description : Side bar

From : After login successfully

To : Game, User, Orders management

XXI. Main Page



Description : Main web page

From : After click URL

To : Game detail, add to cart, browse category, login, contact,….

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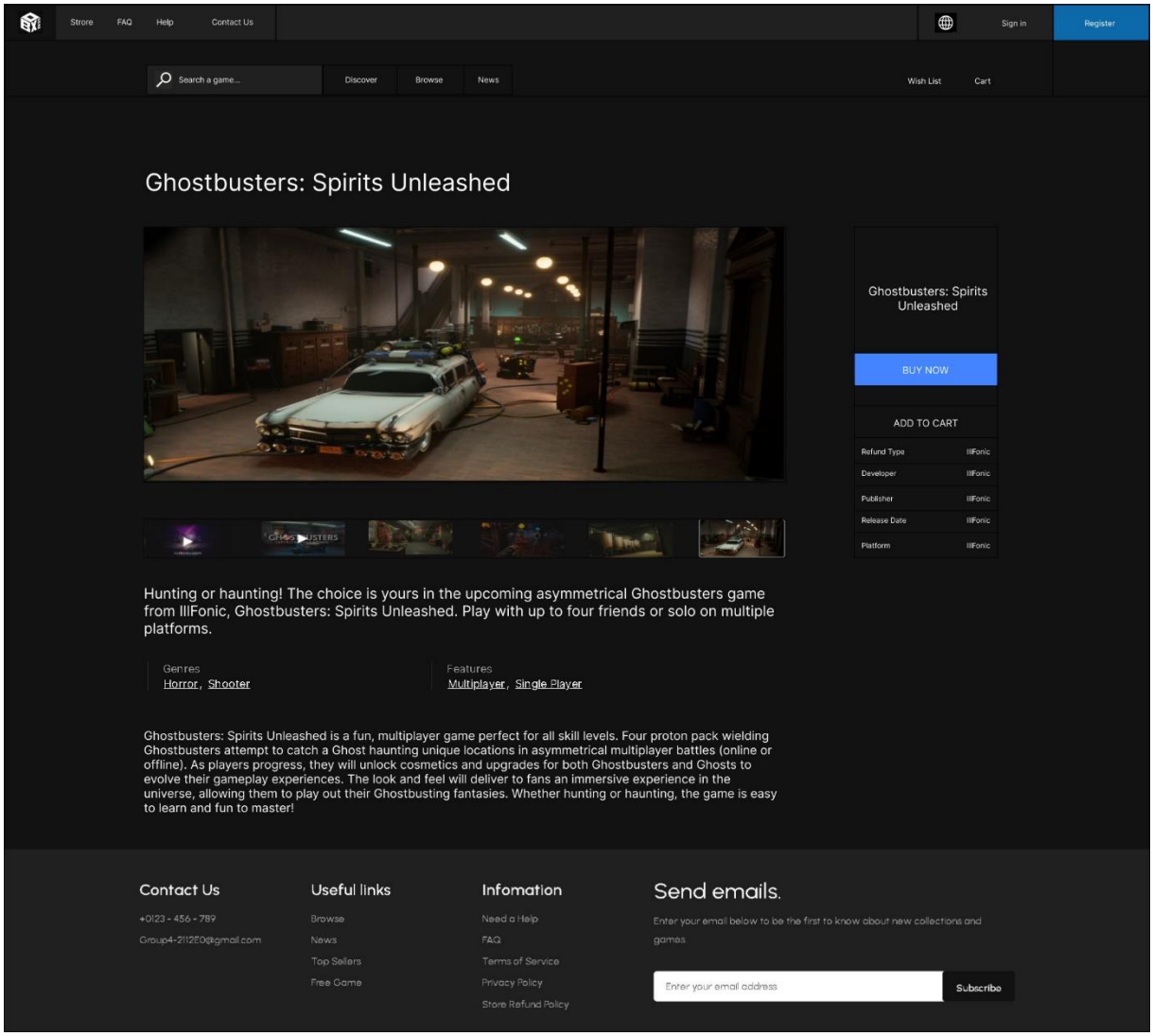
Signature		
Date		

XXII. Game Detail



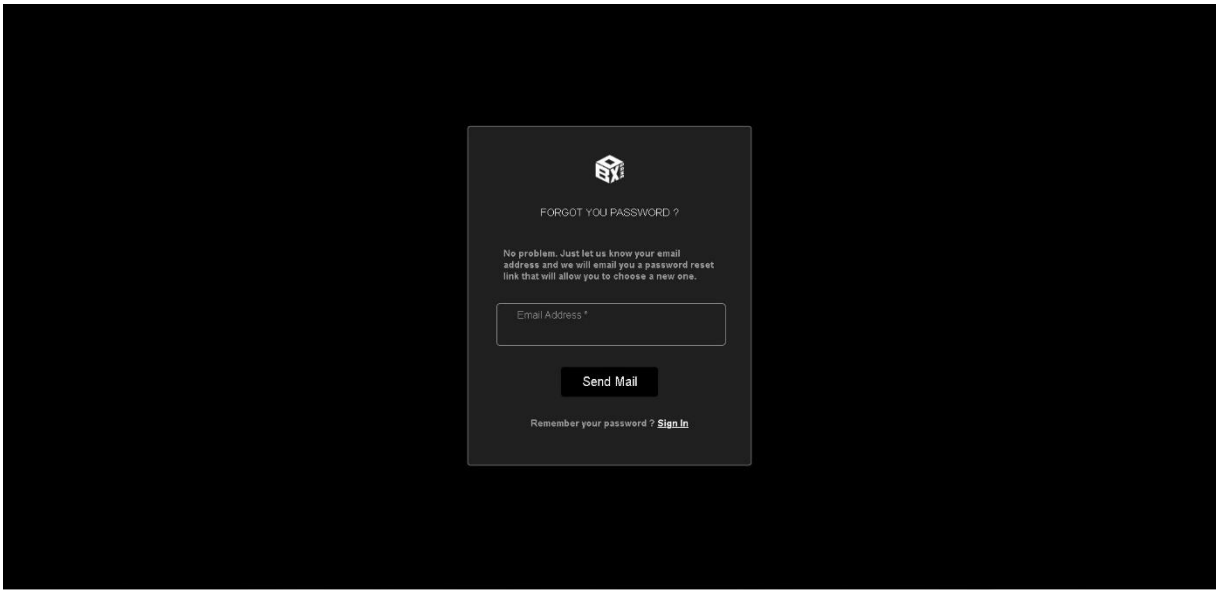
Description : Detail of game

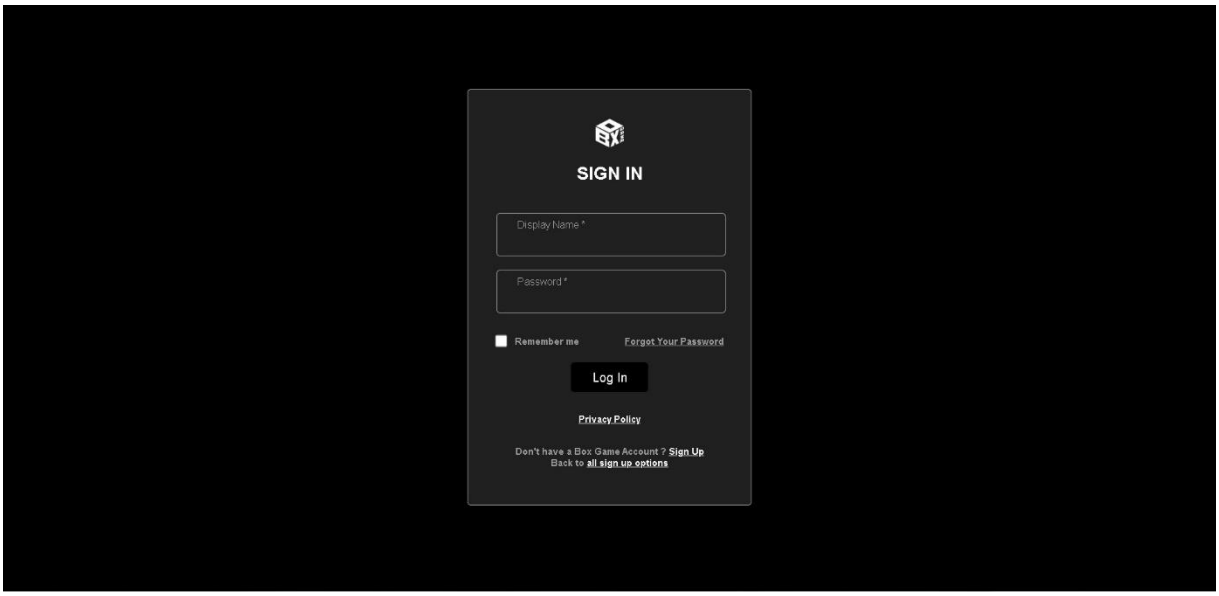
From : Home, after click picture or game name

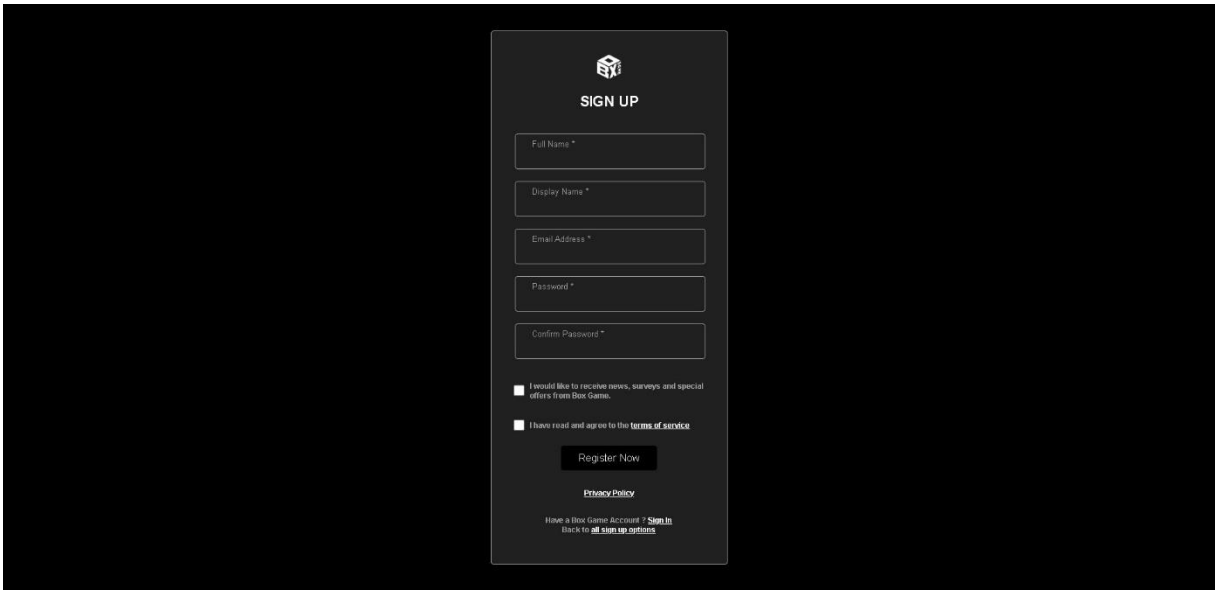
To : Add to cart or return home

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:	LE THANH NHAN
Signature		
Date		

XXIII. User Login, Register and Forget Password





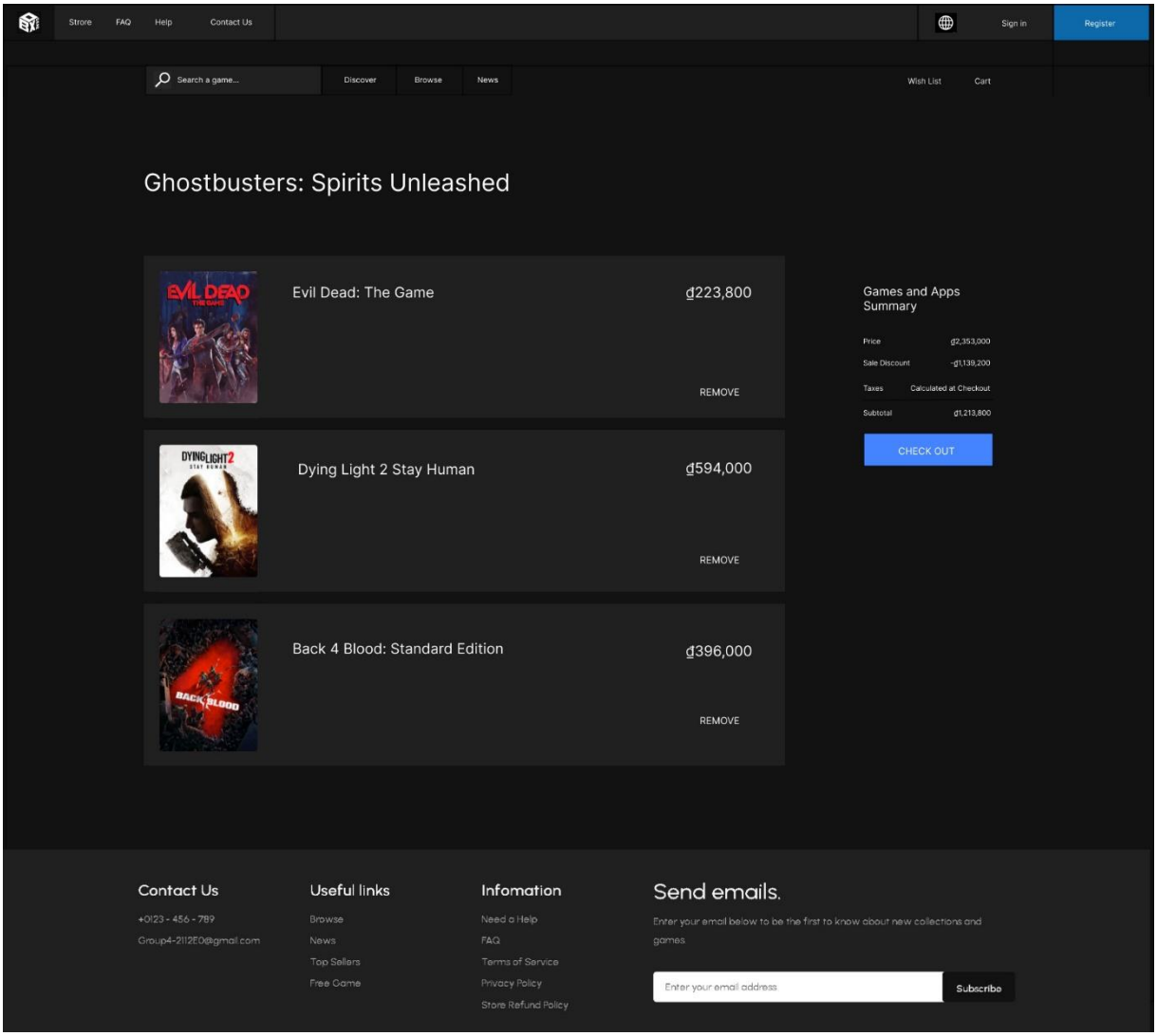


Description : User form

From : Home, login button or add to cart if not login

To : Anywhere in page for login, turn back home when recover password

XXIV. Cart Detail

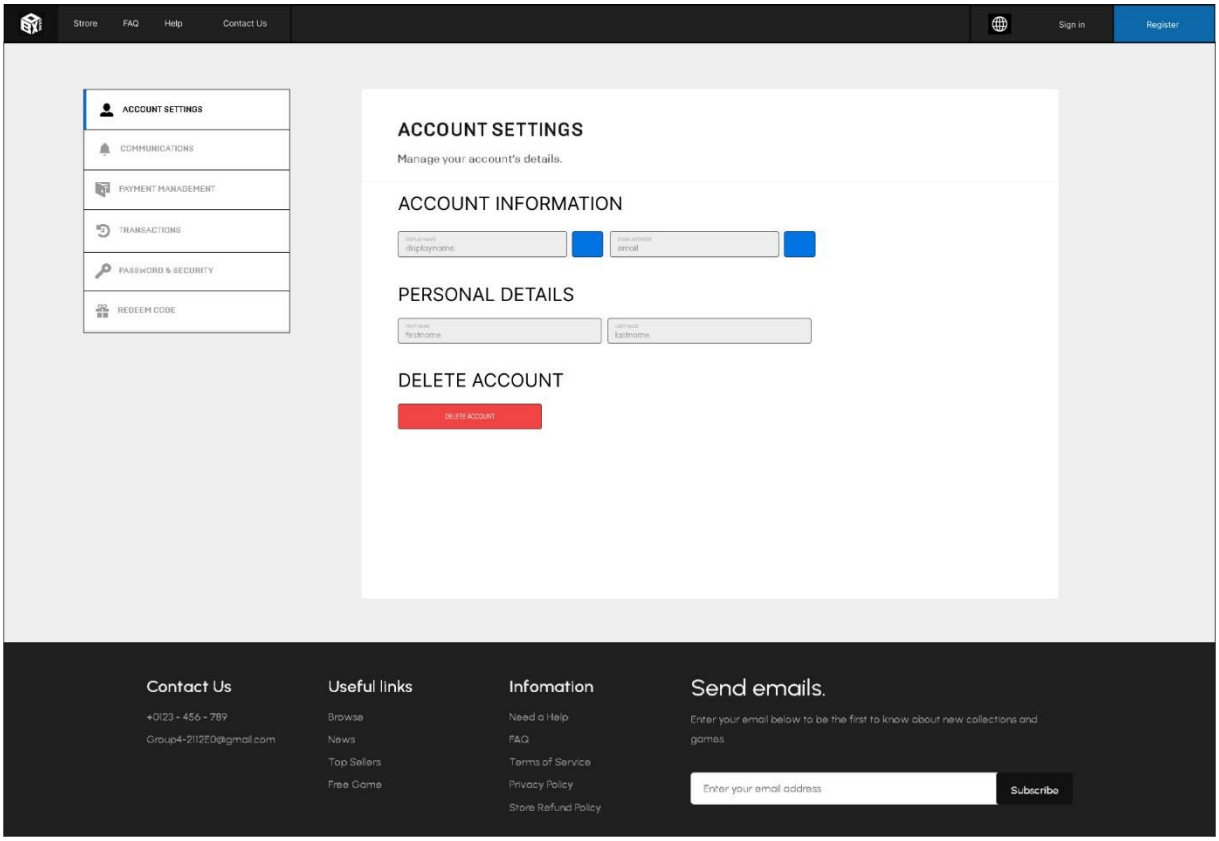


Description : Cart detail of user

From : Home, button cart after login

To : Process to payment or return home

XXV. User Profile Edit



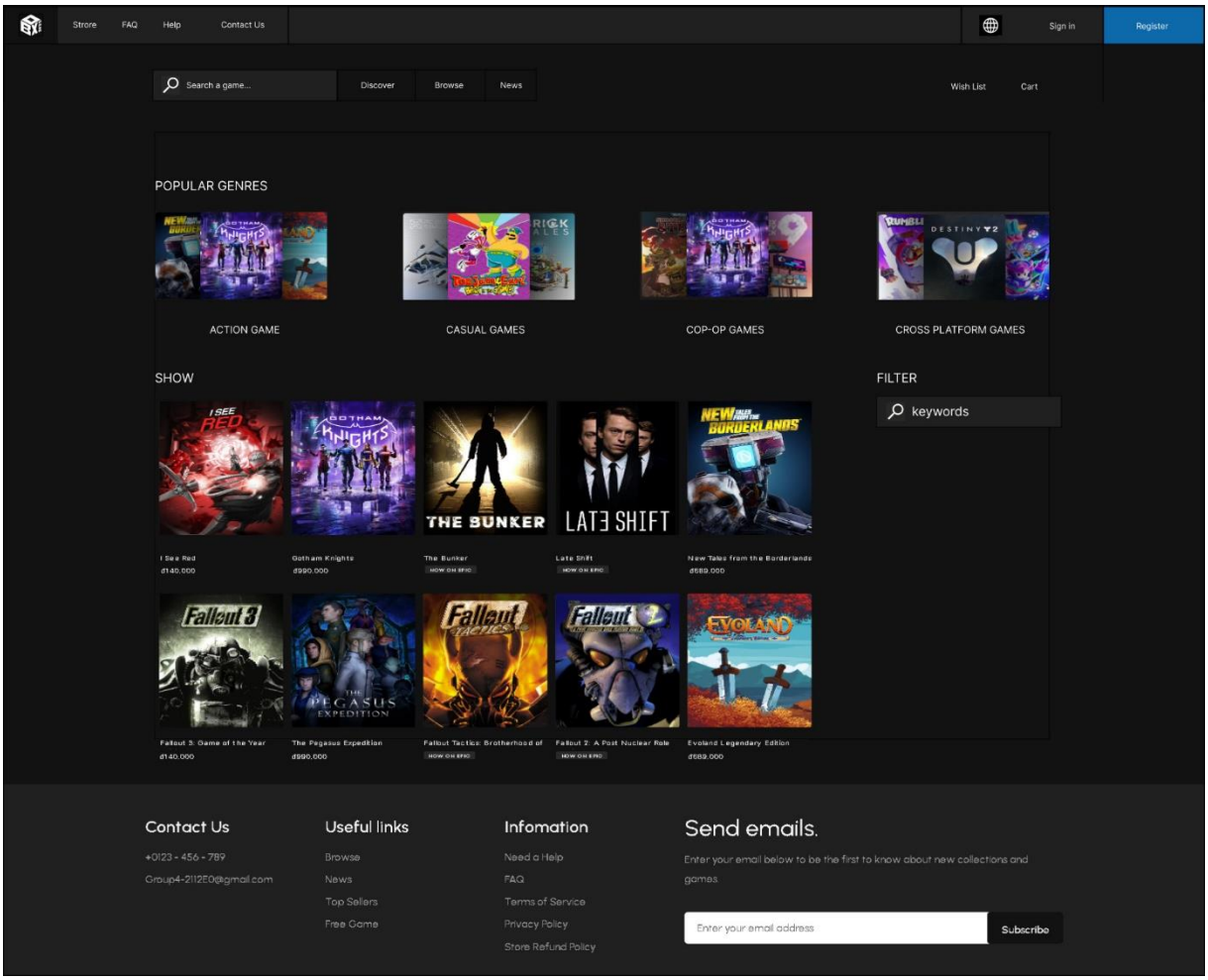
Description : Edit profile of user

From : Home, button username top page after login

To : Edit account or return home

	Prepared by (Student)	**Approved by (Faculty)**
	Project Group No:	LE THANH NHAN
Signature		
Date		

XXVI. Browse Category



Description : Category

From : Home, browse in top page

To : Game detail by click to game image or return home

Testing document

Sr.No	Features Tested	Remarks
1	The Home Page should be neatly created with proper logo, menu and images.	
2	A menu which will include all the functions implemented in the site.	
3	A catalogue should be provided which will help the users to have a look.	
4	The user should be able to search the game based on name and type.	
5	Admin should be able to add mutiple game image	
6	Admin should be able to edit game info	
7	Does the Web page take too long to be loaded fully?	
8	Are all the forms validated with proper criteria?	
9	All image should be clearly see from page	
10	Proper message for each error	
11	All functions should working correctly	
12	Check spelling error	
13	Admin has to login first	

Final checklist

Sr.No	Aspected Tested	Suggestion/ Remarks
1	Are all the users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	
5	Is the Website launching correctly in all popular browsers?	
6	Are all the forms validated with proper criteria?	
7	Do all text links lead to the appropriate website?	
8	Do all image links lead to the appropriate website?	
9	Are all the images and links clearly visible on the page?	
10	Does the Web page work properly in all the tested browsers?	
11	Does the Web page take too long to be loaded fully?	
12	Is the navigation sequences correct through all the Web pages on the site?	
13	Is the JavaScript code working as expected in all click events?	

No	Member	Contents		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planed Start Date	Actual Start Date	Actual Days	Status
1	**Nguyễn Tuấn Lộc**	Admin	*Edit Admin account, manage system requirement each game platform, manage type of game*	Account_admin, System_requirement, Type	12/10/2022	14/10/2022	2	OK
2					16/10/2022	16/10/2022	1	OK
3		User	*Check system requirement*		18/10/2022	18/10/2022	12	OK
4					31/10/2022	1/11/2022	12	OK
1	**Nguyễn Gia Bảo**	Admin	*Order Management, check order status*	Cart_master, Cart_details, Store_cart	12/10/2022	14/10/2022	10	OK
2					01/11/2022	1/11/2022	10	OK
3					10/11/2022	10/11/2022	10	OK
4		User	*Personal Order Management*		10/11/2022	10/11/2022	5	OK
1	**Nguyễn Phước Hoàn**	Admin	*Customer Management*	User, Payment	12/10/2022	12/10/2022	10	OK
2					18/10/2022	19/10/2022	10	OK
3		User	*Register*		31/10/2022	31/10/2022	10	OK
4			*Edit profile, Add payment*		5/11/2022	5/11/2022	5	OK
1	**Nguyễn Lê Thanh Tùng**	Admin	*Game Management, Add or Delete Category*	Game, Category	12/10/2022	14/10/2022	5	OK
2					15/10/2022	15/10/2022	5	OK
3		User	*View, Search Product*		01/11/2022	31/10/2022	5	N/A
4					01/11/2022	10/11/2022	5	N/A
1	**Nguyễn Công Hùng**	Admin	*Rating/Comment Management*	Rating	01/10/2022	01/10/2022	N/A	N/A
2					01/10/2022	01/10/2022	N/A	N/A
3					01/10/2022	01/10/2022	N/A	N/A
4		User	*Send rating, Comment*		01/10/2022	01/10/2022	N/A	N/A

	Prepared by (Student)	Approved by (Faculty)
	Project Group No:	LE THANH NHAN
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